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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%)	44.4%	14.9%	42.2%	101.5%	77.1%	+32%
Using Actual Industry Experience	36.2%	14.9%	42.2%	93.3%	77.1%	+21%
Using Hurricane Models (25% AIR, 75% RMS)	52.6%	14.9%	42.2%	109.7%	77.1%	+42%
AIR Model RMS Model						0.70

- (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 Tier 1 - Territory 10	58,233,887 143,774,114	18.5% 45.7%	
Tier 2 - Territory 1 and	4,354,003	1.4%	15.3%
Total / Average	314,392,251	100.0%	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		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	1,264,721 1,277,401 10,634,874 54,058,418 521,145 17,502,327 11,086,377 2,742,807 2,430,226 4,293,828	0.276 0.276 0.276 0.276 0.276 0.276 0.276 0.276 0.276	1.191 1.185 1.150 1.130 1.104 1.098 1.104 1.090 1.061	15,605,614 77,945,752 734,139 24,521,600 15,617,424 3,814,806 3,290,127	131,926,783 134,663,386 136,975,647 133,431,908 126,682,785 115,596,430	1.5% 12.1% 59.1% 0.5% 17.9% 11.7% 3.0% 2.8%
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	0.276 0.276 0.276 0.276 0.276 0.276 0.276 0.276 0.276	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 L Loss F	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 2017 2018 2019	6,663,982 56,124,736 18,946,421 4,828,213 2,847,431 86,695,348 12,296,413 22,417,655 7,114,851 10,943,641	0.276 0.276 0.276 0.276 0.276 0.276 0.276 0.276 0.276	1.191 1.185 1.150 1.130 1.104 1.098 1.104 1.090 1.061	84,863,968 27,801,978 6,961,704 4,011,187 121,464,344 17,322,006 31,179,371 9,632,341	193,033,699 209,220,809 215,695,773 222,006,785 226,666,349 216,365,340 197,982,407 171,091,403	44.0% 13.3% 3.2% 1.8% 53.6% 8.0% 15.7% 5.6%
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		ctor	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	182,872 54,382 259,290 502,759 30,779 324,129 451,360 495,555 301,949 2,268,507	0.276 0.276 0.276 0.276 0.276 0.276 0.276 0.276 0.276	1.191 1.185 1.150 1.130 1.104 1.098 1.104 1.090 1.061	380,482 724,918 43,359 454,120 635,833 689,238 408,789	4,573,701 4,650,368 4,748,938 4,776,381	2.1% 8.8% 15.8% 0.9% 9.6% 13.3% 14.8% 9.3%
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 Year (1)	TWIA Non-Hurricane Paid Loss (2)	Development Factor	Ultimate Non-Hurricane Loss (4)
2010 2011 2012 2013 2014 2015 2016 2017 2018 2019	1,264,721 1,277,401 10,634,874 54,058,418 520,624 17,432,597 10,965,754 2,662,919 2,271,239 3,407,800	1.000 1.000 1.000 1.001 1.004 1.011 1.030 1.070	1,277,401 10,634,874 54,058,418 521,145 17,502,327 11,086,377 2,742,807 2,430,226
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	TWIA Non-Hurricane Paid Loss (2)	Development Factor	Ultimate Non-Hurricane Loss (4)
2010 2011 2012 2013 2014 2015 2016 2017	3,445,556 19,199,535 20,626,638 6,175,709 1,617,725 9,413,903 9,521,301 7,629,476	1.000 1.000 1.000 1.001 1.004 1.011 1.030	19,199,535 20,626,638 6,175,709 1,619,343 9,451,559 9,626,035 7,858,360
2018 2019	1,103,506 655,541		.,,
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 8,685,428	1.000 1.000 1.000 1.000 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	3	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)

Accident Year	TWIA Non-Hurricane Paid Loss	Development Factor	Ultimate Non-Hurricane Loss
(1)	(2	2) (3)	(4)
2010 2011 2012 2013 2014 2015 2016 2017 2018 2019	182,87 54,38 259,29 502,75 30,74 322,83 446,44 481,12 282,19 1,800,40	2 1.000 0 1.000 9 1.000 8 1.004 8 1.004 9 1.011 1 1.030 5 1.070	54,382 259,290 502,759 30,779 324,129 451,360 495,555 301,949
Total	4,363,05	6	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 Excludir	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)

Accident	Paid Loss Excludio	Paid Loss Excluding Expense					
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)

Accident	Paid Loss Excludi	Paid Loss Excluding Expense					
Year	Non-Hurricane	Hurricane	Total				
(1)	(2)	(3)	(4)				
2010	6,663,982	1,063,585	7,727,567				
2011	56,124,736	, ,	56,124,736				
2012	18.946.421		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	182,872	0	182,872								
2011	54,382		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					
Quarter	At present ra					
(1)	(2)	_				
, ,	, ,	(3)	Current Avera	ge Earned Da	te	7/1
2011 / 4	1,640.91	` ,	Current Avera	•		4/1
2012 / 4	1,626.20	(5)	Prospective A	verage Earned	d / Accident Dat	e 1/1
2013 / 4	1,640.94	(6)	Premium Tren	d Length		
2014 / 4	1,655.17	(7)	Loss Trend Le	ength		
2015 / 4	1,680.32		Selected Prem			
2016 / 4	1,686.41	(9)	Selected Loss	Trend		
2017 / 4	1,683.69	,				
2018 / 4	1,689.86					
2019 / 4	1,711.99					
Accident	Current Premium	Current Loss	Prospective Premium	Prospective Loss	Net Trend	
Accident Year						
	Premium	Loss	Premium	Loss	Trend	
Year	Premium Trend	Loss Trend (12)	Premium Trend (13)	Loss Trend (14)	Trend Factor (15)	
Year (10) 2010	Premium Trend (11)	Loss Trend (12) 3 1.189	Premium Trend (13)	Loss Trend (14)	Trend Factor (15)	
Year (10)	Premium Trend (11)	Loss Trend (12) 3 1.189 3 1.183	Premium Trend (13) 1.003 1.003	Loss Trend (14) 1.047 1.047	Trend Factor (15) 7 1.191 7 1.185	
Year (10) 2010 2011	Premium Trend (11) 1.043	Loss Trend (12) 3 1.189 3 1.159	Premium Trend (13) 1.003 1.003 1.003	Loss Trend (14) 1.047 1.047 1.047	Trend Factor (15) 7 1.191 7 1.185 7 1.150	
Year (10) 2010 2011 2012 2013	Premium Trend (11) 1.043 1.043 1.053	Loss Trend (12) 3 1.189 3 1.183 3 1.159 3 1.129	Premium Trend (13) 1.003 1.003 1.003 1.003	Loss Trend (14) 1.047 1.047 1.047	Trend Factor (15) 7 1.191 7 1.185 7 1.150 7 1.130	
Year (10) 2010 2011 2012 2013 2014	Premium Trend (11) 1.043 1.043 1.053 1.043	Loss Trend (12) 3 1.189 3 1.159 3 1.129 4 1.093	Premium Trend (13) 1.003 1.003 1.003 1.003	Loss Trend (14) 1.047 1.047 1.047 1.047	Trend Factor (15) 1.191 1.185 1.150 1.130 1.104	
Year (10) 2010 2011 2012 2013 2014 2015	Premium Trend (11) 1.043 1.043 1.053 1.043 1.034	Loss Trend (12) 3 1.189 3 1.159 3 1.129 4 1.093 9 1.071	Premium Trend (13) 1.003 1.003 1.003 1.003 1.003 1.003	Loss Trend (14) 1.047 1.047 1.047 1.047 1.047	Trend Factor (15) 1.191 1.185 1.150 1.130 1.104 1.098	
Year (10) 2010 2011 2012	Premium Trend (11) 1.043 1.043 1.053 1.043 1.034 1.019	Loss Trend (12) 3 1.189 3 1.159 3 1.129 4 1.093 9 1.071 5 1.073	Premium Trend (13) 1.003 1.003 1.003 1.003 1.003 1.003	Loss Trend (14) 1.047 1.047 1.047 1.047 1.047 1.047	Trend Factor (15) 7 1.191 7 1.185 7 1.150 7 1.104 7 1.098 7 1.104	
Year (10) 2010 2011 2012 2013 2014 2015 2016	Premium Trend (11) 1.043 1.043 1.053 1.043 1.034 1.019	Loss Trend (12) 3 1.189 3 1.159 3 1.129 4 1.093 9 1.071 5 1.073 7 1.061	Premium Trend (13) 1.003 1.003 1.003 1.003 1.003 1.003 1.003 1.003 1.003 1.003	Loss Trend (14) 1.047 1.047 1.047 1.047 1.047 1.047	Trend Factor (15) 7 1.191 7 1.185 7 1.150 7 1.104 7 1.098 7 1.104 7 1.090	

- (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)

Accident	Months of D	evelopment (<u>\$000)</u>						
Year	15	27	39	51	63	75	87	99	111
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
2010	63,70	06 70,8	324 72,5	10 73,28	2 73,407	73,508	73,530	73,536	73,536
2011	137,26	69 154,0	006 156,5	33 157,45	6 157,929	157,995	158,032	158,046	158,071
2012	162,84	14 196,7	788 232,3	73 242,52	3 245,227	246,785	247,419	247,577	
2013	124,05						156,580		
2014	151,51	178,2	253 187,4	90 191,06	8 191,825	192,297			
2015	173,85	51 200,0	069 206,3	13 208,32	7 209,063				
2016	486,12	24 553,3	332 561,5°	70 563,80	7				
2017	634,03	33 775,4	172 803,3	55					
2018	181,01	11 216,6	348						
2019	272,31	11							
_	Developme	at Factors							
Accident	Developmen	it ractors							
Year	15 - 27	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	12 1 ()24 1.0	1.00	2 1.001	1.000	1.000	1.000	
2011	1.12)17 1.0						
2012	1.20		81 1.0						
2013	1.15		060 1.0						
2014	1.17)52 1.0						
2015	1.15)31 1.0						
2016	1.13)15 1.0		•				
2017	1.22)36						
2018	1.19								
A	4.40	25 4.0)FO 4.0	10 100	0 4.000	1 001	4.000	4.000	
Average	1.16		052 1.0 039 1.0				1.000		
-			າວສ 10	1.00	7 1.003		1.000		
Avg 5 Year	1.17			1 1 1 1	2 4 00 4	1 001	1 000		4 000
Avg 5 Year Prior	1.16	33 1.0	052 1.03				1.000		
Avg 5 Year Prior Selected Selected Cumulative		63 1.0 77 1.0		1.00	7 1.003	1.001	1.000 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

			On-		Average Written Premium	Average Written Premium				
Year /	Exposure	Written	Level	Written Premium	at Present Rates	at Present Rates	Exponential F	itted Trends		
Quarter	Written	Premium		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	1.407	116,231,166	1,610					
2010 / 3	80,037	91,866,506		129,265,399						
2010 / 4	50,797	58,863,267		82,826,528						
2011 / 1	49,776	59,951,748		80,341,076		1,617	1607.7	,		
2011 / 2	75,601	90,742,856		121,604,106	,	1,616	1609.4			
2011 / 3	82,435	99,110,457		132,817,491		1,615	1611.1			
2011 / 4	54,497	66,729,933		89,424,492		1,617	1612.8			
2012 / 1	54,769	68,658,174		87,627,162		1,614	1614.5			
2012 / 2	77,155	96,214,511	1.276			1,609	1616.2			
2012 / 3	89,431	112,131,482		143,111,343		1,606	1617.9			
2012 / 4	54,952	70,018,382				1,603	1619.6			
2013 / 1	54,742	71,740,155		87,200,607		1,602	1621.2	2		
2013 / 2	82,182	108,632,729				1,606	1622.9			
2013 / 3	83,114	111,540,208		, ,	,	1,615	1624.6			
2013 / 4	60,544	81,734,680	1.216	99,349,014	1,641	1,619	1626.3	3		
2014 / 1	55,592	77,867,785				1,624	1628.0			
2014 / 2	79,155	111,616,003	1.158	129,209,475	1,632	1,632	1629.7	7		
2014 / 3	89,874	128,096,479				1,638	1631.5	5		
2014 / 4	60,646	86,711,448	1.158	100,379,340	1,655	1,641	1633.2	2		
2015 / 1	57,651	85,327,979	1.103	94,074,097	1,632	1,643	1634.9	1650.	5	
2015 / 2	82,158	122,581,230	1.103	135,145,806	1,645	1,646	1636.6	1650.	8	
2015 / 3	84,402	127,421,809	1.103	140,482,544	1,664	1,650	1638.3	3 1651.	2	
2015 / 4	57,308	87,342,988	1.103	96,295,644	1,680	1,655	1640.0) 1651.	6	
2016 / 1	54,113	84,557,230	1.050	88,785,092	1,641	1,657	1641.7	7 1652.	0 1655.	2
2016 / 2	79,991	125,845,764	1.050	132,138,052	1,652	1,659	1643.4	1652.	3 1655.	2
2016 / 3	77,932	123,784,247	1.050	129,973,459	1,668	1,660	1645.2	1652.	7 1655.	3
2016 / 4	51,030	81,959,449	1.050	86,057,421	1,686	1,661	1646.9	9 1653.	1 1655.	3
2017 / 1	50,991	79,037,984	1.050	82,989,883	1,628	1,659	1648.6	1653.	4 1655.	3 1648.
2017 / 2	73,614	114,547,681	1.050	120,275,065	1,634	1,654	1650.3	1653.	8 1655.	3 1649.
2017 / 3	68,864	108,614,623	1.050	114,045,354	1,656	1,650	1652.1	1654.	2 1655.	3 1650.
2017 / 4	45,960	73,697,340	1.050	77,382,207	1,684	1,648	1653.8	3 1654.	6 1655.	4 1651.
2018 / 1	44,101	71,679,332	1.000	71,679,332	1,625	1,649	1655.5	1654.	9 1655.	4 1652.
2018 / 2	63,851	104,163,394	1.000	104,163,394	1,631	1,649	1657.3	1655.	3 1655.	4 1653.
2018 / 3	61,408	101,951,681	1.000	101,951,681	1,660	1,650	1659.0	1655.		
2018 / 4	40,418	68,300,637		68,300,637		1,650	1660.7			
2019 / 1	39,758	65,036,872		65,036,872		1,652	1662.5			
2019 / 2	60,805	99,948,528	1.000	99,948,528	1,644	1,656	1664.2		8 1655.	
2019 / 3	57,547	97,063,357		97,063,357	,	1,664	1665.9			
2019 / 4	38,375	65,697,652	1.000	65,697,652	1,712	1,668	1667.7	7 1657.	5 1655.	5 1659.
(40) Au	A O-						0.40/	0.40	/ 0.00	/ 0.00
	age Annual Ch elation Coeffici						0.4% 75.6%			
(14) Selec	ted Premium	Frend								0.19

- (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 1.094 1.066 1.073 1.061 1.023	1.208 1.185 1.147 1.103 1.077 1.085 1.072	1.106 1.082 1.074 1.064 1.051 1.035 1.028	1.129 1.093 1.071 1.073 1.061 1.029					
Factors to Adjus	Factors to Adjust For Prospective Loss Costs								
(6) Fitted Trend	·		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)

0-1	Texas	Fitted Trends		5.V		4.27.		0.1/	
Calendar Year	Statewide Index	All Years Linear	Evpopontial	5 Years Linear	Evacacation	4 Years Linear	Evaponetial	3 Years Linear	Evacantial
Ending (1)	(2)	(3)	Exponential (4)	(5)	Exponential (6)	(7)	Exponential (8)	(9)	Exponential (10)
(1)	(2)	(3)	(4)	(3)	(0)	(1)	(6)	(9)	(10)
3/31/2010	2047.26	2025.39	2031.85						
6/30/2010	2046.15								
9/30/2010	2050.53								
12/31/2010	2057.95								
3/31/2011	2065.10								
6/30/2011	2070.21								
9/30/2011	2075.77								
12/31/2011	2083.16								
3/31/2012	2092.69								
6/30/2012	2103.68								
9/30/2012	2121.46								
12/31/2012	2139.97								
3/31/2013	2155.46								
6/30/2013	2172.56		2170.19						
9/30/2013	2172.30								
12/31/2013	2202.66								
3/31/2014	2219.67								
6/30/2014	2239.01								
9/30/2014	2257.42								
12/31/2014	2275.56								
3/31/2015	2293.59								
6/30/2015	2307.55								
9/30/2015	2316.02		2271.45						
12/31/2015	2319.90								
3/31/2016	2316.44								
6/30/2016	2308.41								
9/30/2016	2301.26								
12/31/2016	2296.54								
3/31/2017	2299.40								
6/30/2017	2309.77								
9/30/2017	2326.30	2366.05	2365.41	2365.5				2333.20	
12/31/2017	2343.81	2377.41	2377.43	2375.6	9 2374.71	2366.3	1 2365.41	2351.06	2350.55
3/31/2018	2363.74	2388.77	2389.51	2385.8	7 2384.90	2380.09	2379.12	2 2368.92	2368.19
6/30/2018	2386.99	2400.12	2401.64	2396.0	5 2395.13	3 2393.86	3 2392.92	2 2386.78	2385.95
9/30/2018	2413.52	2411.48	2413.84	2406.2	4 2405.40	2407.63	3 2406.79	2404.64	2403.85
12/31/2018	2441.12	2422.83	2426.11	2416.4	2 2415.72	2421.40	2420.75	2422.51	2421.89
3/31/2019	2459.13	2434.19	2438.43	2426.6	0 2426.08	3 2435.17	7 2434.78	3 2440.37	2440.05
6/30/2019	2468.96	2445.54	2450.82	2436.7	9 2436.49	2448.94	1 2448.90	2458.23	2458.36
9/30/2019	2469.01	2456.90	2463.26	2446.9	7 2446.94	2462.7	1 2463.10	2476.09	2476.80
12/31/2019	2466.82	2468.25	2475.78	2457.1	5 2457.43	3 2476.48	3 2477.38	3 2493.96	2495.38
Annual Trend		1.8%	2.0%	1.79	% 1.7%	2.2%	2.3%	2.9%	3.0%
R-Squared		0.967							

^{(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		2035.95						
6/30/2010	2072.76								
9/30/2010	2070.98		2057.53						
12/31/2010	2070.61								
3/31/2011	2073.42		2079.34						
6/30/2011	2074.47		2090.34						
9/30/2011	2078.09		2101.39						
12/31/2011	2083.46		2112.49						
3/31/2012	2089.96		2123.66						
6/30/2012	2099.33	2135.64	2134.89						
9/30/2012	2118.82	2147.56	2146.18						
12/31/2012	2139.88	2159.48	2157.52						
3/31/2013	2157.74	2171.40	2168.93						
6/30/2013	2175.63	2183.32	2180.39						
9/30/2013	2189.62	2195.24	2191.92						
12/31/2013	2203.37	2207.15	2203.51						
3/31/2014	2227.71	2219.07	2215.16						
6/30/2014	2252.63	2230.99	2226.87						
9/30/2014	2275.00	2242.91	2238.64						
12/31/2014	2296.77	2254.83	2250.47						
3/31/2015	2310.58	2266.75	2262.37	2270.81	2273.22	2			
6/30/2015	2322.52	2278.66	2274.33	2282.34	2284.14	ļ.			
9/30/2015	2330.38	2290.58	2286.35	2293.86	2295.12	2			
12/31/2015	2333.26	2302.50	2298.44	2305.39	2306.15	5			
3/31/2016	2328.65	2314.42	2310.59	2316.91	2317.24	2275.62	2 2277.89)	
6/30/2016	2320.80	2326.34	2322.81	2328.44	2328.37	2291.4	5 2292.93	3	
9/30/2016	2313.59	2338.26	2335.09	2339.97	2339.56	3 2307.28	3 2308.06	3	
12/31/2016	2308.17	2350.18	2347.43	2351.49	2350.81	2323.1	1 2323.30)	
3/31/2017	2311.24	2362.09	2359.84	2363.02	2362.11	2338.94	4 2338.63	3 2305.74	2307.14
6/30/2017	2323.79	2374.01	2372.32	2374.54	2373.46	2354.77	7 2354.07	7 2326.48	2327.04
9/30/2017	2340.80	2385.93	2384.86	2386.07	2384.87	2370.59	9 2369.61	2347.23	2347.12
12/31/2017	2360.09	2397.85	2397.46	2397.60	2396.33	3 2386.42	2 2385.25	2367.98	2367.36
3/31/2018	2380.33		2410.14	2409.12	2407.84	2402.25	5 2400.99	2388.73	2387.79
6/30/2018	2404.16	2421.69	2422.88	2420.65	2419.42	2418.08	3 2416.84	2409.48	2408.38
9/30/2018	2433.32	2433.60				5 2433.9°	1 2432.79	2430.22	2429.16
12/31/2018	2467.60	2445.52	2448.56	2443.70	2442.73			2450.97	
3/31/2019	2494.19	2457.44	2461.51	2455.22	2454.47	2465.57	7 2465.01	2471.72	2471.25
6/30/2019	2508.16		2474.52		2466.27				2492.57
9/30/2019	2510.44		2487.60						
12/31/2019	2504.07		2500.75						
Appual Trees		4.00/	0.40/	4.00/	4.00/	0.50	/ 0.70/	0.00/	2.50/
Annual Trend R-Squared		1.9% 0.955	2.1% 0.957						

^{(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

Calendar Year	Modified	Fitted Trends All Years		5 Years		4 Years		3 Years	
Ending	CPI	Linear	Exponential	Linear	Exponential	Linear	Exponential	Linear	Exponential
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
9/30/2009	179.30	177.20	177.41						
12/31/2009	178.80		177.91						
3/31/2010	178.46		178.42						
6/30/2010	178.56		178.93						
9/30/2010	178.59		179.44						
12/31/2010	178.72		179.95						
3/31/2011	178.97		180.47						
6/30/2011	179.61		180.98						
9/30/2011	180.52		181.50						
12/31/2011	181.55		182.01						
3/31/2012	182.78		182.53						
6/30/2012	183.87								
9/30/2012	184.57		183.58						
12/31/2012	185.03		184.10						
3/31/2013	185.38		184.63						
6/30/2013	185.51		185.15						
9/30/2013	185.82		185.68						
12/31/2013	186.03		186.21						
3/31/2014	186.43		186.74						
6/30/2014	186.87		187.27						
9/30/2014	187.59		187.81						
12/31/2014	188.62		188.34						
3/31/2015	189.46		188.88		1 189.16	3			
6/30/2015	189.59		189.42			7			
9/30/2015	190.03	190.07	189.96	190.1	7 190.19)			
12/31/2015	190.50		190.50		9 190.70)			
3/31/2016	190.95	191.14	191.05			191.21	191.24	1	
6/30/2016	192.03	191.67	191.59	191.7	5 191.74			3	
9/30/2016	192.82	192.21	192.14	192.2	7 192.26	192.27	192.28	3	
12/31/2016	193.56		192.69						
3/31/2017	193.86	193.28	193.24	193.3	3 193.31	l 193.33	193.32	192.86	192.89
6/30/2017	194.07	193.82	193.79	193.80	6 193.83	3 193.85	193.85	193.45	193.47
9/30/2017	194.20	194.35	194.34	194.38	3 194.36	194.38	194.37	7 194.05	194.05
12/31/2017	194.18	194.89	194.90	194.9°	1 194.89	9 194.91	194.90	194.64	194.64
3/31/2018	194.71	195.42	195.45	195.4	4 195.42	2 195.44	195.42	2 195.23	195.23
6/30/2018	195.24	195.96	196.01	195.97	7 195.95	5 195.97	195.95	195.83	195.82
9/30/2018	195.63	196.50	196.57	196.49	9 196.48	3 196.50	196.48	3 196.42	196.41
12/31/2018	196.26	197.03	197.13	197.02	2 197.01	l 197.03	197.02	197.01	197.00
3/31/2019	197.08	197.57	197.69	197.5	5 197.55	5 197.56	197.55	197.60	197.59
6/30/2019	198.20	198.10	198.26	198.08	3 198.09	9 198.09	198.09	9 198.20	198.19
9/30/2019	199.66	198.64	198.82	198.60	198.62	198.62	198.62	198.79	198.79
12/31/2019	200.38	199.18	199.39	199.13	3 199.16	5 199.14	199.16	199.38	199.39
Annual Trend		1.1%	1.1%	1.1%	6 1.1%	5 1.1%	1.1%	1.2%	1.2%
R-Squared		0.987	0.987						
,			2.20.	2.30.	2.300	21200	2.302		

^{(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

	D : 1	D. I	D : 1
Accident Year	Paid Loss (\$000)	Paid ALAE (\$000)	Paid ULAE (\$000)
(1)	(2)	(3)	(4)
2010	18,00	05 32	23 3,951
2011	96,08		
2012	66,74		,
2013	70,8		,
2014	7,00		· · · · · · · · · · · · · · · · · · ·
2015	138,58	33 2,67	79 37,109
2016	28,40	09 48	34 14,882
2017	1,338,48	34 6,90	249,300
2018	11,66	63 11	7 6,280
2019	12,93	36	7 7,053
Total (Excluding 2017)	450,23	39 7,08	32 117,340
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%			
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 0.172							

^{(2) =} Cumulative Loss Payments as of 06/30/2020; Ike Losses reflect TWIA's estimated Residential & Commercial Hurricane Ike litigation cost reduction of \$306292226 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	52.4%	6 0.172	61.4%	25%
RMS Model	42.4%	6 0.172	49.7%	75%
Weighted Average of Models	44.9%	6 0.172	52.6%	1

⁽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	ent at Current	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	
(1)	(a) 54-Year (1/1/1966 - 12/31/2019)	0.241
	(a) 169-Year (1/1/1851 - 12/31/2019)	0.320
	(a) 109-16ai (1/1/1651 - 12/51/2019)	0.320
	Selected Frequency	0.320
(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

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Texas Windstorm Insurance Association Residential Property - Wind & Hail Rate Level Review

Industry Experience -- Residential Extended Coverage 1966 - 2019

Accident Year	Earned Premium	Earned Premium at CMR	Earned Premium at Current TWIA Rate Level	Incurred Losses	Incurred Loss Ratio	Hurricane Indicator
(1)	(2)	(3)	(4)	(5)	(6)	(7)
966		13,011,528	34,051,169	1,178,131	3.5%	
967		13,130,860		663,024		
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	12,724,690	, ,			
974	12,794,652	11,637,700		2,293,219		
975	13,633,616	12,392,309				
976	17,088,846	13,884,831				
977	23,643,216	17,474,220				
978	28,157,329	19,320,941				
979	32,867,536	21,563,567				
980	32,179,994	22,416,603			74.8%	Н
981	30,817,037	29,693,419			3.2%	
982	28,140,159	32,398,474	84,786,806		2.3%	
983	28,786,234	39,817,626	75,333,571		430.2%	Н
984	20,078,668	34,626,400	52,545,874		12.1%	
985	30,043,452	53,801,222	78,623,714		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%	Н
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		6.3%	
993	50,741,120		132,789,511		10.3%	
994	57,584,585		150,698,860		4.9%	
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%	
008	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)

Accident ∕ear	Territory 8	Territory 9	Territory 10	Tier 2	Weighted Loss Ratio	Selected Loss Ratio
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1983	1052.2%	6.2%	142.5%	145.2%	430.2%	430.2%
1984	3.2%		20.8%	33.1%		12.1%
1985	1.7%			11.1%		5.2%
1986	1.0%			12.1%	9.3%	9.3%
1987	0.5%		3.2%	6.3%		2.4%
1988	4.9%	6.0%		6.4%		10.1%
1989	5.5%			15.3%		7.0%
1990	28.9%			21.3%	17.0%	17.0%
1991	58.5%			15.4%	70.0%	70.0%
1992	1.2%			17.5%	6.3%	6.3%
1993	12.5%			21.4%	10.3%	10.3%
1994	2.3%			7.6%		4.9%
1995	2.8%			22.5%	6.8%	6.8%
1996	1.3%			9.0%	3.5%	3.5%
1997	1.7%			7.7%	4.3%	4.3%
1998	17.6%			9.3%		19.2%
1999	2.0%			9.8%		8.5%
2000	0.9%			10.9%	5.3%	5.3%
2001	5.4%			35.6%	7.4%	7.4%
2002	24.4%			10.6%	17.2%	17.2%
2003	5.1%			10.3%	20.1%	20.1%
2004	1.3%			3.9%		1.7%
2005	51.1%			37.2%	111.6%	111.6%
2006	1.0%	1.7%	2.8%	4.9%	2.0%	2.0%
2007	2.7%		8.3%	4.9%	5.1%	5.1%
2008	694.6%			418.4%	419.9%	419.9%
2009	2.9%			9.4%	1.9%	1.9%
2010	1.2%	5.6%	4.8%	10.9%	3.8%	3.8%
2011	1.0%			6.0%	18.5%	18.5%
2012	8.3%	28.9%	9.5%	85.0%	13.7%	13.7%
2013	40.7%			19.6%	17.2%	17.2%
2014	0.5%			17.7%		2.3%
2015	12.7%			35.1%	24.2%	24.2%
2016	8.3%			35.8%	8.6%	8.6%
2017	30.9%	339.8%	315.9%	60.2%	218.7%	218.7%
2018	2.4%			10.4%	3.5%	3.5%
2019	4.1%	1.6%	7.3%	26.8%	5.4%	5.4%
Average	56.7%	16.5%	40.4%	33.1%	41.5%	41.5%

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%	, ,	-, ,	,,	314,392,251 100.0%	

- (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)

		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	4,317,605	2.61	7 11,299,172	118,889,570	1052.2%
1984	3,512,853	2.61	7 9,193,136	292,543	3.2%
1985	6,066,870	2.61	7 15,876,999		
1986	6,846,710	2.61	7 17,917,840	187,218	1.0%
1987	7,738,740	2.61	7 20,252,283	111,242	0.5%
1988	8,043,378	2.61	, ,		
1989	8,149,957	2.61	7 21,328,437		
1990	7,816,199	2.61	-, - ,		
1991	8,645,208	2.61	7 22,624,509	13,225,287	58.5%
1992	5,826,467	2.61	7 15,247,863	180,484	1.2%
1993	5,825,916	2.61	7 15,246,422	1,900,088	12.5%
1994	6,996,874	2.61	7 18,310,819	420,038	2.3%
1995	8,737,576	2.61	7 22,866,237	644,169	2.8%
1996	11,652,672	2.61	7 30,495,044	406,004	1.3%
1997	12,573,252	2.61	7 32,904,201	573,343	1.7%
1998	13,838,930	2.61	7 36,216,480	6,371,206	17.6%
1999	14,103,814	2.59	36,572,406	742,130	2.0%
2000	15,784,218	2.38	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	3 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	1.83	7 67,557,818	34,527,644	51.1%
2006	43,562,211	1.83	79,822,419	813,430	1.0%
2007	59,282,257	1.749	9 103,685,428	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	9 122,893,429	3,581,024	2.9%
2010	89,665,314	1.40	7 126,202,213	1,451,547	1.2%
2011	93,230,854	1.37	3 127,979,548	1,329,886	1.0%
2012	99,629,727	1.30	7 130,253,235	10,756,644	8.3%
2013	107,104,250	1.24	5 133,375,327	54,316,145	40.7%
2014	114,784,032	1.180	3 136,160,810	691,708	0.5%
2015	122,782,019	1.130	138,739,529	17,655,480	12.7%
2016	127,007,324	1.07	7 136,730,973	11,291,643	8.3%
2017	126,002,753	1.050	132,302,891	40,819,572	30.9%
2018	122,707,170	1.020	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	2.6	17 6,102,682	377,010	6.2%
1984	1,632,317		-, - ,	,	·
1985	2,505,564				7.1%
1986	2,977,992		-,,	,	
1987	3,639,667				
1988	3,971,251	2.6			6.0%
1989	3,702,536		-,,		
1990	3,519,306			,	10.4%
1991	4,065,190				
1992	3,907,712		-,,		
1993	4,552,395			, ,	
1994	5,710,806				
1995	6,908,552				
1996	8,568,168		17 22,422,896	1,061,115	4.7%
1997	8,425,344	2.6			4.0%
1998	8,803,621	2.6	17 23,039,077	2,289,890	9.9%
1999	8,465,256	2.59	93 21,951,137	3,778,386	17.2%
2000	8,437,094	2.38	36 20,127,058		2.4%
2001	8,894,552		17,905,774	1,394,445	7.8%
2002	10,534,795	2.0	13 21,207,776	1,227,528	5.8%
2003	13,881,847	2.0	13 27,945,784	2,295,803	8.2%
2004	15,458,506	1.92	29,674,129	569,877	1.9%
2005	17,471,646	1.83	32,091,670	872,451	2.7%
2006	19,888,512		36,443,263	621,501	1.7%
2007	29,704,042	1.74	19 51,952,751	833,793	1.6%
2008	40,565,108		66,913,548		
2009	46,363,445				
2010	51,529,115				
2011	52,931,755				
2012	56,334,273				
2013	60,101,696			, ,	
2014	65,642,137		, ,	, ,	
2015	72,124,134				
2016	76,436,084		- ,,-		
2017	77,008,517			, ,	
2018	77,031,486		-,,	, ,	
2019	76,490,369	1.00	00 76,490,369	1,230,125	1.6%
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 Year	Earned Premium	Factor to TWIA Rate Level		Earned Premium at Current TWIA Rate Level	Incurred Loss	Incurred Loss Ratio
(1)	(2)	(3)		(4)	(5)	(6)
1983	5,888,781	2.	.617	15,410,940	21,953,626	142.5%
1984	3,924,651	2.	.617	10,270,812	2,135,063	20.8%
1985	5,808,825	2.	.617	15,201,695	1,055,065	6.9%
1986	6,993,722	2.	.617	18,302,570	3,338,312	18.2%
1987	7,677,374	2.	.617	20,091,688	634,637	3.2%
1988	8,284,768	2.	.617	21,681,238	3,434,130	15.8%
1989	7,733,295	2.	.617	20,238,033	1,670,422	8.3%
1990	7,568,146	2.	.617	19,805,838	2,095,151	10.6%
1991	8,287,605	2.	.617	21,688,663	22,444,044	103.5%
1992	8,059,407	2.	.617	21,091,467	1,625,108	7.7%
1993	8,448,603	2.	.617	22,109,995	1,776,572	8.0%
1994	9,743,293	2.	.617	25,498,198	1,637,915	6.4%
1995	10,745,995	2.	.617	28,122,268	2,416,675	
1996	13,294,968	2.	.617	34,792,932	1,520,229	4.4%
1997	15,708,220	2.	.617	41,108,412	2,569,544	6.3%
1998	16,168,136	2.	.617	42,312,012	10,312,506	24.4%
1999	14,452,667	2.	.593	37,477,010	3,655,754	9.8%
2000	14,453,385	2.	.386	34,479,183	3,332,580	9.7%
2001	15,173,521	2.	.013	30,546,076	2,426,814	7.9%
2002	17,843,905	2.	.013	35,921,871	5,925,066	16.5%
2003	23,423,208	2.	.013	47,153,662	17,213,668	36.5%
2004	27,306,202	1.	.920	52,416,951	990,613	1.9%
2005	31,012,304	1.	.837	56,962,957	115,989,785	203.6%
2006	36,545,725	1.	.832	66,965,567	1,842,548	2.8%
2007	69,945,120	1.	.749	122,334,912	10,105,722	8.3%
2008	110,187,567	1.	.650	181,758,202	694,640,836	382.2%
2009	128,275,387	1.	.499	192,247,050	2,522,159	1.3%
2010	143,236,007	1.	.407	201,601,937	9,656,553	4.8%
2011	151,387,931	1.	.373	207,812,737	59,069,922	
2012	170,159,709	1.	.307	222,462,243	21,183,482	9.5%
2013	183,495,510	1.	.245	228,504,225	6,488,552	2.8%
2014	197,640,983	1.	.186	234,448,607	7,237,896	3.1%
2015	212,320,998	1.	.130	239,915,547	89,978,392	
2016	218,795,204	1.	.077	235,546,111	15,012,404	6.4%
2017	212,533,686	1.	.050	223,160,370	705,069,821	315.9%
2018	201,509,514	1.	.026	206,656,862	9,481,014	4.6%
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 Ratio
(1)	(2)	(3)	(4)	(5)	(6)
1983	16,247,909		7 42,520,778	, ,	
1984	11,008,847				
1985	15,662,193		-,,	4,532,749	
1986	19,854,927		, ,		
1987	22,542,928		,,		
1988	24,744,994		- , - ,		
1989	22,159,987		- , ,		15.3%
1990	21,480,544		, ,		
1991	25,239,134		, , -	, ,	
1992	26,718,987		,	, ,	
1993	31,914,206		,,	, ,	
1994	35,133,612		, ,		
1995	34,347,927		,,-	, ,	
1996	38,349,764		,,	9,046,495	
1997	42,447,731		, ,	8,514,675	
1998	41,427,572		, -,		
1999	34,004,815		, , -		
2000	36,439,477		, ,		
2001	32,881,662	2.01	3 66,194,638	23,547,404	35.6%
2002	37,396,181		3 75,282,893		
2003	49,027,236		, ,		
2004	49,927,649		, - ,		
2005	50,116,517		- ,,		
2006	54,703,319	1.83	2 100,237,135	4,909,932	
2007	60,982,886	1.74	9 106,659,850	5,242,698	4.9%
2008	65,015,817	1.65	0 107,245,838	448,708,416	418.4%
2009	70,667,217		, ,		9.4%
2010	70,788,779		, ,	10,829,031	10.9%
2011	73,325,323				
2012	80,858,142			, ,	
2013	90,250,703		, ,		19.6%
2014	99,916,064		-,,	, ,	17.7%
2015	110,352,614		, ,		
2016	119,744,188		-,- , -	, ,	
2017	117,739,636		, ,	, ,	
2018	115,484,141		-, -,		
2019	116,764,667	1.00	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

-							
	TWIA Insured	Average					
	Limits (000s)	Annual	Modeled				
County	as of 11/30/19	Modeled Loss	Loss Cost				
(1)	(2)	(3)	(4)				
Aransas	1,560,360	4,195,184	2.689				
Brazoria	9,623,822	17,422,331	1.810				
Calhoun	884,611	2,847,688	3.219				
Cameron	2,184,121	3,992,197	1.828				
Chambers	1,407,119	2,468,157	1.754				
Galveston	18,526,442	80,652,773	4.353				
Harris	1,104,156	4,849,825	4.392				
Jefferson	6,147,764	13,072,112	2.126				
Kenedy	5,642	6,086	1.079				
Kleberg	185,682	181,406	0.977				
Matagorda	1,085,936	3,103,721	2.858				
Nueces	10,223,620	27,506,251	2.690				
Refugio	74,314	119,729	1.611				
San Patricio	1,622,088	3,323,670	2.049				
Willacy	76,748	167,096	2.177				
		400 000 000					
Total	54,712,424	163,908,226	2.996				
(5) Inforce-Prem	nium as of Nov 30 20	19 at Present Rates	312,674,278				
(5) Inforce-Premium as of Nov 30, 2019 at Present Rates(6) Indicated Hurricane Loss Ratio52.4%							
(-)							

- (2) Provided by TWIA and Geo-coded by AIR
- (3) Provided by AIR
- (4) = (3) / (2) (5) Provided by TWIA
- (6) = (3) Total / (5)

Hurricane Loss Ratio -- RMS Model

	TWIA Insured Limits (000s)	Average Annual	Modeled			
County	as of 11/30/19	Modeled Loss	Loss Cost			
(1)	(2)	(3)	(4)			
Aransas	1,560,360	3,705,013	2.374			
Brazoria	9,623,822	16,568,400	1.722			
Calhoun	884,611	3,148,799	3.560			
Cameron	2,184,121	4,478,722	2.051			
Chambers	1,407,119	2,314,527	1.645			
Galveston	18,526,442	59,618,675	3.218			
Harris	1,104,156	3,166,744	2.868			
Jefferson	6,147,764	11,425,895	1.859			
Kenedy	5,642	12,762	2.262			
Kleberg	185,682	267,952	1.443			
Matagorda	1,085,936	3,066,293	2.824			
Nueces	10,223,620	21,208,047	2.074			
Refugio	74,314	173,582	2.336			
San Patricio	1,622,088	3,179,005	1.960			
Willacy	76,748	217,298	2.831			
Total	54,712,424	132,551,714	2.423			
(5) Inforce-Premium as of Nov 30, 2019 at Present Rates 312,674,278 (6) Indicated Hurricane Loss Ratio 42.4%						

- (2) Provided by TWIA and Geo-coded by RMS (3) Provided by RMS

- (4) = (3) / (2) (5) Provided by TWIA (6) = (3) Total / (5)

Texas Hurricanes 1850 - 2019

Year Month Name (1) (2) (1) (2) 1851 Jun 1929 Jun 1854 Jun 1932 Aug "Freeport" 1854 Jun 1933 Aug "Freeport" 1855 Sep "Sabine River-Lake Calcasieu" 1933 Aug 1940 Aug 1940 Aug 1940 Aug 1940 Aug 1866 Jul 1867 Oct "Galveston" 1940 Aug 1942 Aug 1868 Jun 1868 Jun 1942 Aug 1880 Aug 1942 Aug 1880 Aug 1880 Aug 1942 Aug 1886 Jun 1886 Jun 1945 Aug 1886 Jun 1886 Aug 1886 Aug 1886 Aug 1886 Oct 1957 Jun Audrey 1887 Sep 1959 Jul Debra 1887 Sep Cindy 1886 Jun 1967 Sep Beulah 1995 Jul Debra 1887 Sep Cindy 1886 Jun 1967 Sep Beulah 1995 Jul Debra 1886 Jun 1967 Sep Beulah 19967 Sep Beulah 19967 Sep Beulah 1999	<u>Landfall</u>			<u>Landfall</u>	1		
1851 Jun 1929 Jun 1854 Jun 1932 Aug "Freeport" 1854 Sep "Matagorda" 1933 Aug 1865 Sep "Sabine River-Lake Calcasieu" 1933 Sep 1866 Jul 1934 Jul 1867 Oct "Galveston" 1936 Jun 1869 Aug "Lower Texas Coast" 1940 Aug 1875 Sep 1941 Sep 1876 Aug 1942 Aug 1880 Aug 1942 Aug 1886 Jun 1945 Aug 1886 Aug "Indianola" 1947 Aug 1886 Oct 1957 Jun Audrey 1887 Sep 1959 Jul Debra 1888 Jun 1961 Sep Carla 1895 Aug 1963 Sep Cindy 1895 Aug 1967 Sep Beulah 1897 Sep 1970 Aug Celia 1900 Sep "Galveston" 1983 Aug Alicia 1909 Jul "Velasco" 1983 Aug Alicia 1909 Aug 1980 Aug Allen 1909 Aug 1980 Aug Chantal 1915 Aug "Galveston" 2005 Sep Rita	Year Month	Name		Year	Month	Name	
1854 Jun 1932 Aug "Freeport" 1854 Sep "Sabine River-Lake Calcasieu" 1933 Aug 1865 Sep "Sabine River-Lake Calcasieu" 1933 Sep 1866 Jul 1934 Jul 1867 Oct "Galveston" 1936 Jun 1869 Aug "Lower Texas Coast" 1940 Aug 1875 Sep 1941 Sep 1879 Aug 1942 Aug 1880 Aug 1942 Aug 1886 Jun 1943 Jul 1886 Aug "Indianola" 1947 Aug 1886 Sep 1949 Oct 1886 Sep 1957 Jun Audrey 1887 Sep 1959 Jul Debra 1887 Sep 1961 Sep Carla 1891 Jul 1963 Sep Cindy 1895 Aug 1967 Sep Beulah 1897 Sep 1970 Aug Celia 1897 Sep 1970 Aug Celia 1897 Sep 1970 Aug Aug 1900 Sep "Galveston" 1971 Sep Ferm 1909 Jun 1980 Aug Allen 1909 Jun 1980 Aug Allen 1909 Aug <td>(1)</td> <td>(2)</td> <td>-</td> <td></td> <td>(1)</td> <td></td> <td>(2)</td>	(1)	(2)	-		(1)		(2)
1854 Jun 1932 Aug "Freeport" 1854 Sep "Sabine River-Lake Calcasieu" 1933 Aug 1865 Sep "Sabine River-Lake Calcasieu" 1933 Sep 1866 Jul 1934 Jul 1867 Oct "Galveston" 1936 Jun 1869 Aug "Lower Texas Coast" 1940 Aug 1875 Sep 1941 Sep 1879 Aug 1942 Aug 1880 Aug 1942 Aug 1886 Jun 1943 Jul 1886 Aug "Indianola" 1947 Aug 1886 Sep 1949 Oct 1886 Sep 1957 Jun Audrey 1887 Sep 1959 Jul Debra 1887 Sep 1961 Sep Carla 1891 Jul 1963 Sep Cindy 1895 Aug 1967 Sep Beulah 1897 Sep 1970 Aug Celia 1897 Sep 1970 Aug Celia 1897 Sep 1970 Aug Aug 1900 Sep "Galveston" 1971 Sep Ferm 1909 Jun 1980 Aug Allen 1909 Jun 1980 Aug Allen 1909 Aug <td>1051</td> <td></td> <td></td> <td>4000</td> <td></td> <td></td> <td></td>	1051			4000			
1854 Sep						"–	
1865 Sep "Sabine River-Lake Calcasieu" 1933 Sep 1866 Jul 1934 Jul 1867 Oct "Galveston" 1936 Jun 1869 Aug "Lower Texas Coast" 1940 Aug 1875 Sep 1941 Sep 1879 Aug 1942 Aug 1880 Aug 1942 Aug 1886 Jun 1943 Jul 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 1990 Jun 1971 Sep Fern 1990 Jun 1980 Aug Allen 1990 Jul "Velasco" 1980 Aug Allen 1990 Jul "Velasco" 1980 Aug Chantal 1991 Oct 1980 Aug Chantal 1991 Oct 1989 Aug Chantal 1991 Oct 1989 Oct Jerry 1915 Aug </td <td></td> <td></td> <td></td> <td></td> <td>U</td> <td>"Freeport</td> <td>,,</td>					U	"Freeport	,,
1866 Jul	•				•		
1867 Oct	•	"Sabine River-Lake Cal	casieu"		•		
1869 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 Aug 1986 Jun Bonnie 1910 Sep 1989 Aug Chantal 1910 Sep 1989 Aug Chantal 1915 Aug "Galveston" 2003 Jul Claudette 1915 Aug "Galveston" 2005 Sep Rita 1919 Sep 2007 Sep Humberto 1921 Jun 2008 Sep Ike 2017 Aug Harvey							
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 1895 Aug 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 Aug Bret 1915 Aug "Galveston" 2003 Jul Claudette 1915 Aug "Galveston" 2003 Jul Claudette 1916 Aug 2005 Sep Rita 1919 Sep 2007 Sep Humberto 1921 Jun 2008 Sep Ike	1869 Aug	"Lower Texas Coast"		1940	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 1990 Sep "Galveston" 1970 Aug Allen 1999 Jul "Velasco" 1980 Aug Allen 1990 Jul "Velasco" 1983 Aug Alicia 1990 Aug 1986 Jun Bonnie 1910 Sep 1989 Aug Chantal 1912 Oct 1989 Aug Chantal 1915 Aug "Galveston" 2003 Jul Claudette 1916 Aug 2005 Sep Rita 1919 Sep 2007 Sep Humberto 1921 Jun 2008 Sep Ike 2017 Aug Harvey				1941	Sep		
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 Aug Chantal 1915 Aug "Galveston" 2003 Jul Claudette 1916 Aug 2007 Sep Humberto 1921 Jun 2008 Sep Ike 2017 Aug Harvey	1879 Aug			1942	Aug		
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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 1990 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 1921 Jun 2008 Jul Dolly 2008 Sep Ike 2017 Aug Harvey	1882 Sep			1943	Jul		
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 1921 Jun 2008 Jul Dolly 2008 Sep Ike 2017 Aug Harvey	1886 Jun			1945	Aug		
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 2007 Sep Humberto 1921 Jun 2008 Sep Ike 2007 Aug Harvey	1886 Aug	"Indianola"		1947	Aug		
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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 2007 Sep Humberto 1921 Jun 2008 Jul Dolly 2008 Sep Ike 2017 Aug Harvey	1886 Oct			1957	Jun	Audrey	
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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 2007 Sep Humberto 1921 Jun 2008 Jul Dolly 2008 Sep Ike 2017 Aug Harvey	1895 Aug		•		_ •		
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 Sep Ike 2017 Aug Harvey	•				•	Celia	
1909 Jun 1909 Jul 1909 Jul 1909 Jul 1909 Jul 1909 Aug 1909 Aug 1909 Aug 1986 Jun 1980 Aug 198	•	"Galveston"			•		
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 Sep Ike 2017 Aug Harvey		Cu., 55.5					
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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 Ike 2017 Aug Harvey		Velasoo			U		
1912 Oct 1989 Oct 1998 Oct 1999 Aug Bret 1915 Aug "Galveston" 2003 Jul Claudette 1916 Aug 1919 Sep 2007 Sep Humberto 1921 Jun 2008 Sep Ike 2017 Aug Harvey	•						
1913 Jun 1999 Aug Bret 1915 Aug "Galveston" 2003 Jul Claudette 1916 Aug 2005 Sep Rita 1919 Sep 2007 Sep Humberto 1921 Jun 2008 Sep Ike 2017 Aug Harvey	•				•		
1915 Aug "Galveston" 2003 Jul Claudette 1916 Aug 2005 Sep Rita 1919 Sep 2007 Sep Humberto 1921 Jun 2008 Sep Ike 2017 Aug Harvey						,	
1916 Aug 2005 Sep Rita 1919 Sep 2007 Sep Humberto 1921 Jun 2008 Jul Dolly 2008 Sep Ike 2017 Aug Harvey		"Galvecton"			U		
1919 Sep 2007 Sep Humberto 1921 Jun 2008 Jul Dolly 2008 Sep Ike 2017 Aug Harvey	· ·	Gaivesion					•
1921 Jun 2008 Jul Dolly 2008 Sep Ike 2017 Aug Harvey	•						
2008 Sep Ike 2017 Aug Harvey	•				•		,
2017 Aug Harvey	1921 Jun					,	
<u> </u>					•		
Frequency Date Period # of Hurricane Years Period Annual Frequency				2017	Aug	Harvey	
	Frequency	Date Period	# of Hurricane Years	Period	Annual Fre	equency	
54-Year 1/1/1966 - 12/31/2019 13 54 0.241	54-Vear	1/1/1066 - 12/31/2010	12	54		0.241	
169-Year 1/1/1851 - 12/31/2019 54 169 0.320							
105-16ai 1/1/1051-12/51/2019 34 109 0.320	103-1 Cdl	1/1/1001 - 12/01/2019	54	109		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	(1)	TWIA Earned Premium (2)	Factor to Current Rate Level (3)	á	Earned Premium at Current Rate Level (4)
2010 2011 2012 2013 2014 2015 2016 2017 2018 2019		88,599,807 92,287,441 98,605,959 105,941,027 113,521,698 121,221,015 123,942,872 120,650,271 112,717,188 109,182,096	3 3 5 2 3	1.407 1.373 1.307 1.245 1.186 1.130 1.077 1.050 1.026 1.000	124,702,532 126,684,509 128,914,788 131,926,783 134,663,386 136,975,647 133,431,908 126,682,785 115,596,430 109,182,096
Total		1,086,669,374	ļ		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)	TWIA Earned Premium (2)	Factor to Current Rate Level	Earned Premium at Current Rate Level (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	1.37 1.30 1.24 1.18 1.13 1.07 1.05	3 69,387,124 7 70,391,274 5 71,513,690 6 74,528,934 0 77,646,885 7 76,688,491 0 72,582,595 6 65,531,943
Total		606,541,148		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	(1)	TWIA Earned Premium (2)	Factor to Current Rate Level (3)	á	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 5 2 4 3 7 3	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	2		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 Earned Premium (2)	Factor to Current Rate Level	Earned Premium at Current Rate Level (4)
2010 2011 2012 2013 2014 2015 2016 2017 2018 2019		2,562,327 2,825,372 3,294,072 3,672,814 3,920,276 4,202,726 4,436,708 4,435,808 4,301,050 4,296,061	1.3 2 1.3 3 1.2 4 1.2 5 1.7 6 1.6 8 1.6 1 1.0 1 1.0	407 3,606,426 373 3,878,435 307 4,306,581 245 4,573,701 186 4,650,368 130 4,748,938 077 4,776,381 050 4,657,598 026 4,410,916 000 4,296,061
Total		37,947,214	ļ	43,905,405

⁽²⁾ Provided by TDI

⁽³⁾ Provided by TWIA

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

Calculation of TWIA Earned Premium at Present Rate Level

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

Ехре	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 % of DWP	67,661,211 16.0%	63,280,811 16.0%	59,474,929 16.0%	
(4)	Other Acquisition				
	\$ Amount % of DWP	\$0 0.0%	\$0 0.0%	\$0 0.0%	
(5)	General Expense				
	Unadjusted \$ Amount % of DWP	\$26,489,941 6.3%	\$30,756,501 7.8%	\$31,461,936 8.5%	
(6)	Taxes, Licenses & Fees				
, ,	\$ Amount % of DWP	\$0 0.0%	\$0 0.0%	\$0 0.0%	
(7)	Reinsurance Expense				15.8%
(8)	Outstanding Class 1 Public Security Rep	avment			17.9%
(9)	Total Fixed Expenses	- y			42.2%
	Total Variable Expenses				17.9%
` ,	·	Provision			5.0%
, ,	Underwriting Contingency & Uncertainty	PTOVISION			
(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	69,923,158
(2a)	Expected Average Annual Loss by Reinsurance Layer (AIR) 100% of \$1640M XS \$2100M	19,669,618
	Total	19,669,618
(2b)	Expected Average Annual Loss by Reinsurance Layer (RMS) 100% of \$1640M XS \$2100M	12,860,916
	Total	12,860,916
(2c)	Selected Total Average Annual Loss	16,265,267
(2d)	Selected Total Average Annual Loss+LAE	19,062,089
(3)	Expected Net Cost of Reinsurance	50,861,069
(4)	TWIA 2019 Earned Premium at Present Rates	322,259,386
(5)	Indicated Reinsurance Expense %	15.8%

- (1) Developed by Willis Towers Watson for prospective reinsurance contract effective 6/1/2021 through 5/31/2022
- (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 W	ritten Premium		Annual Statement Gross		
Year	Commercial	Residential	Total Written Premiur			
(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)}