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

Hurricane Projection Method	Indicated Le	oss & LAE Ratio  Non-Hurricane	Fixed Expenses	Total	Permissible LLAE Ratio	Indicated Rate Change	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
Using Experience and Models (50%/50%)	50.2%	9.2%	41.6%	101.0%	77.1%	+31%	
Using Actual Industry Experience	50.2%	9.2%	41.6%	101.0%	77.1%	+31%	
Using Hurricane Models (25% AIR, 75% RMS)	50.1%	9.2%	41.6%	101.0%	77.1%	+31%	
AIR Models RMS Models			41.6% 41.6%	111.7% 97.4%		+45% +26%	

- (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

Accident	Ultimate Non-Hurricane		Net Trend	Projected Non-Hurricane	Earned Premium at Current	Indicated Non-Hurricane
Year	Loss	Factor	Factor	Loss & LAE	Rate Level	Loss & LAE Ratio
(1)	(2)	(3)	(4)	(5)	(6)	(7)
2010	7,478,289	0.276	1.137	10,849,591	151,048,188	7.2%
2011	19,217,587	0.276	1.103	27,047,370	138,891,291	19.5%
2012	14,459,642	0.276	1.087	20,055,697	137,525,969	14.6%
2013	7,351,329	0.276	1.108	10,393,368	139,160,577	7.5%
2014	1,062,619	0.276	1.084	1,469,798	129,234,128	1.1%
2015	19,110,326	0.276	1.063	25,921,017	114,980,596	22.5%
2016	2,671,804	0.276	1.061	3,617,184	100,738,792	3.6%
2017	2,080,162	0.276	1.035	2,747,187	83,489,580	3.3%
2018	205,296	0.276	0.993	260,124	69,991,684	0.4%
2019	1,071,513	0.276	1.022	1,397,330	62,410,281	2.2%
Total	74,708,567			103,758,666	1,127,471,086	9.2%

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

Projected Ultimate Non-Hurricane Loss

Accident Year (1)	TWIA Non-Hurricane Paid Loss (2)	Development Factor (3)	Ultimate Non-Hurricane Loss (4)
2010 2011 2012 2013 2014 2015 2016 2017 2018 2019	7,478,289 19,217,587 14,459,642 7,351,329 1,056,281 18,644,220 2,596,505 1,979,222 186,803 806,862	1.000 1.000 1.000 1.006 1.025 1.029 1.051 1.099	7,478,289 19,217,587 14,459,642 7,351,329 1,062,619 19,110,326 2,671,804 2,080,162 205,296 1,071,513
Total	73,776,740		74,708,567

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

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

Accident	Paid Loss Excludio	ng Expense	
Year	Non-Hurricane	Hurricane	Total
(1)	(2)	(3)	(4)
2010	7,478,289	0	7,478,289
2010	19,217,587		19,217,587
2012	14,459,642		14,459,642
2012	7,351,329		7,351,329
2013	1,056,281	0	1,056,281
2015	18.644.220	•	18.644.220
2016	2,596,505	-	2,596,505
2017	1,979,222		437,190,922
2018	186,803		186,803
2019	806,862		806,862
		·	
Total	73,776,740	435,211,700	508,988,440

<sup>(2), (3)</sup> Provided by TWIA, includes commercial and farm

<sup>(4) = (2) + (3)</sup> 

Calculation of Net Trend Factors

	Average		
	Written premium		
Year /	Per house year		
Quarter	At present rates		
(1)	(2)		
		(3) Current Average Earned Date	7/1/2019
		(4) Current Average Accident Date	7/1/2019
2011 / 4	4,002.39	(5) Prospective Average Earned / Accident Date	1/1/2022
2012 / 4	4,097.53	(6) Premium Trend Length	2.500
2013 / 4	4,252.75	(7) Loss Trend Length	2.500
2014 / 4	4,282.15	(8) Selected Premium Trend	1.0%
2015 / 4	4,264.40	(9) Selected Loss Trend	1.9%
2016 / 4	4,252.60		
2017 / 4	4,215.24		
2018 / 4	4,176.71		
2019 / 4	4,382.63		

Accident Premium Loss Premium Loss Trend Year Trend Trend Trend Trend Factor	
(10) (11) (12) (13) (14) (15)	)
2010 1.095 1.218 1.025 1.048 1	1.137
2011 1.095 1.181 1.025 1.048 1	1.103
2012 1.070 1.137 1.025 1.048 1	1.087
2013 1.031 1.117 1.025 1.048 1	1.108
2014 1.023 1.085 1.025 1.048 1	1.084
2015 1.028 1.069 1.025 1.048 1	1.063
2016 1.031 1.069 1.025 1.048 1	1.061
2017 1.040 1.053 1.025 1.048 1	1.035
2018 1.049 1.019 1.025 1.048 0	0.993
2019 1.000 1.000 1.025 1.048 1	1.022

- (2) Exhibit 3, Sheet 2 (7)
- (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 TWIA Commercial Property Paid Loss

	Months of Deve	<u>lopment</u>					
Accident	40	0.4	00	40	00	70	0.4
Year						72	84
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
2010	4,489	6,162	6,783	7,280	7,280	7,302	7,478
2011	13,360	16,138	18,435	18,758	19,119	19,200	19,218
2012	8,512	11,404	13,135	13,284	13,309	14,460	14,460
2013	6,886	7,243	7,338	7,351	7,351	7,351	7,351
2014	641	875	1,015	1,056	1,056	1,056	
2015	15,923	17,690	17,780	18,644	18,644		
2016	2,055	2,479	2,584	2,597			
2017	1,599	1,963	1,979				
2018	165	187					
2019	807						
	Development Fa	actors					
Accident							
Year						72 - 84	84 - Ult
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
2010	1.373	1.101	1.073	1.000	1.003	1.024	
2011	1.208	1.142	1.018	1.019	1.004	1.001	
2012	1.340	1.152	1.011	1.002	1.086	1.000	
2013	1.052	1.013	1.002	1.000	1.000	1.000	
2014	1.365	1.160	1.040	1.000	1.000	1.000	
2014	1.111	1.005	1.040	1.000	1.000		
2015	1.206	1.042	1.049	1.000			
2016	1.228	1.008	1.005				
2017	1.133	1.006					
2016	1.133						
Average	1 224	1 070	1 029	1 004	1 010	1.006	
Average	1.224	1.078	1.028	1.004	1.019	1.006	
Avg x hi / lo	1.227	1.076	1.025	1.000	1.002	1.000	
Avg x hi / lo Avg 3 Year	1.227 1.189	1.076 1.019	1.025 1.031	1.000 1.000	1.002 1.029	1.000 1.000	
Avg x hi / lo Avg 3 Year Avg 5 Year	1.227 1.189 1.209	1.076 1.019 1.046	1.025 1.031 1.021	1.000 1.000 1.004	1.002 1.029 1.019	1.000 1.000 1.006	4.000
Avg x hi / lo Avg 3 Year Avg 5 Year Prior	1.227 1.189 1.209 1.200	1.076 1.019 1.046 1.086	1.025 1.031 1.021 1.029	1.000 1.000 1.004 1.003	1.002 1.029 1.019 1.016	1.000 1.000 1.006 1.006	1.000
Avg x hi / lo Avg 3 Year Avg 5 Year Prior Selected	1.227 1.189 1.209 1.200 1.209	1.076 1.019 1.046 1.086 1.046	1.025 1.031 1.021 1.029 1.021	1.000 1.000 1.004 1.003 1.004	1.002 1.029 1.019 1.016 1.019	1.000 1.000 1.006 1.006 1.006	1.000
Avg x hi / lo Avg 3 Year Avg 5 Year Prior	1.227 1.189 1.209 1.200	1.076 1.019 1.046 1.086	1.025 1.031 1.021 1.029	1.000 1.000 1.004 1.003	1.002 1.029 1.019 1.016	1.000 1.000 1.006 1.006	

## Notes:

Data provided by TWIA, includes commercial and farm, excludes hurricanes Brett (1999), Claudette (2003), Rita (2005), Humberto (2007), Dolly (2008), and Ike (2008), Harvey (2017)

Premium Trend Analysis

TWIA Commercial Earned Premium at Present Rates

			On-	Written Premium at	Average Written Premium	Average Written Premium					
Year /	Exposure	Written	Level	Present Rates	at Present Rates	at Present Rates	Exponential Fitted Tre	ande			
Quarter	Written	Premium	Factors		Quarterly	Four Quarter Ending	All-Year	5-Year	4-Year	3-Year	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	0 . 0	(11)
2010 / 2	10,820	34,131,354	1.407	48,026,243	4,439						
010/2	11,668	34,131,354		44,700,133	•						
010 / 3	8,548	20,776,517		29,234,646							
010 / 4		19,850,492			•	3,988	4,037				
011/1	6,214	, ,			•	3,871	4,046				
	9,658	29,228,333									
011 / 3 011 / 4	10,928 7,912	31,567,447 23,026,165				3,884 4,002	4,055 4,063				
	•										
012 / 1	7,909	24,771,378				3,954	4,072				
012/2	9,232	32,088,566		40,954,045	•	4,050	4,081				
012/3	10,836	32,876,434			•	4,051	4,090				
012 / 4	7,698	24,799,106			•	4,098	4,099				
013 / 1	7,144	24,974,712				4,151	4,107				
013/2	9,194	32,706,056				4,121	4,116				
013/3	10,002	35,220,808				4,247	4,125				
013 / 4	7,133	24,211,988				4,253	4,134				
014/1	6,329	23,028,882			•	4,246	4,143				
014/2	8,964	35,219,745			,	4,307	4,152				
014/3	8,292	29,887,118				4,280	4,161				
014/4	6,088	21,627,063		25,036,029		4,282	4,170				
015 / 1	6,464	24,808,373			4,231	4,286	4,179		249		
015 / 2	7,870	33,339,199			,	4,309	4,188		250		
015/3	7,657	28,055,666			,	4,276	4,197	4,2			
015 / 4	4,802	17,430,504			4,002	4,264	4,206		252		
016 / 1	5,512	22,487,925			4,284	4,277	4,215		254 4,2		
016/2	6,522	28,623,450	1.050	30,054,623	4,608	4,239	4,224	4,2	255 4,2	20	
016/3	6,507	25,417,054	1.050	26,687,907	4,101	4,266	4,233		256 4,2		
016 / 4	4,047	14,955,154	1.050	15,702,912	3,880	4,253	4,242	4,2	257 4,2	31	
017 / 1	4,263	17,482,209	1.050	18,356,319	4,306	4,255	4,251	4,2	258 4,2	36	4
017 / 2	5,717	25,224,489	1.050	26,485,713	4,633	4,248	4,260	4,2	259 4,2	41	4
017 / 3	5,172	19,050,031	1.050	20,002,533	3,867	4,195	4,270	4,2	260 4,2	46	4
017 / 4	3,489	13,077,837	1.050	13,731,729	3,936	4,215	4,279	4,2	261 4,2	51	4
018/1	3,663	15,807,970	1.000	15,807,970	4,316	4,214	4,288	4,2	263 4,2	56	4
018/2	5,108	22,862,777	1.000	22,862,777	4,476	4,154	4,297	4,2	264 4,2	62	4
018/3	4,612	17,927,115	1.000	17,927,115	3,887	4,168	4,306	4,2	265 4,2	67	4
018 / 4	3,109	12,284,401	1.000	12,284,401	3,951	4,177	4,316	4,2	266 4,2	72	4
019 / 1	2,933	14,759,154	1.000	14,759,154	5,032	4,304	4,325	4,2	267 4,2	77	4
019/2	4,431	20,959,587	1.000	20,959,587	4,730	4,371	4,334		268 4,2		4
019/3	3,993	14,943,999		14,943,999	3,743	4,351	4,344	4,2	269 4,2		4
019 / 4	2,966	12,109,737		12,109,737		4,383	4,353		270 4,2		4
12) Avera	as Appual Charac						0.00	/ 0	40/ 0.5	:0/	
	ge Annual Change ation Coefficient	;					0.9% 51.4%		1% 0.5 1% 12.6		36
14) Select	ed Premium Tren	d									,

Notes: (2) Provided by TWIA

(3) Provided by TWIA

(4) Factor to bring written premium to current rate level

(5) = (3) \* (4) Indexed to 2019 / 4

(5) = (3) \* (4) Indexed to 2019 / 4
(6) = (5) / (2)
(7) Annualized average written premium
(8) - (11) 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 12/31/xx (1)	Commercial Statewide Boeckh	Coastal Boeckh	Residential Statewide Boeckh	Coastal Boeckh	Modified CPI (6)	Weighted Average (7)		
(.,	(-)	(0)	( . /	(0)	(0)	(.,		
2010	1.236	1.250	1.199	1.209	1.121	1.218		
2011	1.193	1.207	1.184	1.202	1.104	1.181		
2012	1.149	1.155	1.153	1.170	1.083	1.137		
2013	1.127	1.130	1.120	1.136	1.077	1.117		
2014	1.096	1.093	1.084	1.090	1.062	1.085		
2015	1.077	1.075	1.063	1.073	1.052	1.069		
2016	1.082	1.080	1.074	1.085	1.035	1.069		
2017	1.057	1.060	1.052	1.061	1.032	1.053		
2018	1.015	1.018	1.011	1.015	1.021	1.019		
2019	1.000	1.000	1.000	1.000	1.000	1.000		
Factors to Adjust For Prospective Loss Costs								
(8) Fitted Trend	2.0%	2.2%	1.7%	1.9%	1.1%	1.9%		
(9) Cost Factor	1.051	1.056	1.044	1.049	1.028	1.048		

- (2) = Exhibit 3, Sheet 3b trended forward to 12/31/2019
- (3) = Exhibit 3, Sheet 3c trended forward to 12/31/2019
- (4) = Residential Exhibit 3, Sheet 3b trended forward to 12/31/2019
- (5) = Residential Exhibit 3, Sheet 3c trended forward to 12/31/2019
- (6) = Exhibit 3, Sheet 3d
- (7) = 25% CPI and 75% Commercial Coastal Boeckh (most appropriate available by year)
- (8) = (2) (7) fitted to an exponential curve using 5 years' data (where available)
- $(9) = [1 + (8)] ^2.5$  (trended from 7/1/2019 to 1/1/2022)

Loss Trend Analysis

Boeckh Commercial Construction Index Trend (Statewide)

	Texas	Fitted Trends	
Calendar Year	Statewide	All Years	
Ending	Index	Linear	Exponential
(1)	(2)	(3)	(4)
(-)	(-/	(-)	( - /
3/31/2010	2174.05		
6/30/2010	2151.73		
9/30/2010	2138.05		
12/31/2010	2135.73		
3/31/2011	2144.86		
6/30/2011	2159.12		
9/30/2011	2182.25		
12/31/2011	2212.90	2241.89	2246.73
3/31/2012	2240.48	2253.90	2257.84
6/30/2012	2263.10	2265.90	2269.00
9/30/2012	2282.01	2277.91	2280.22
12/31/2012	2298.24	2289.91	2291.49
3/31/2013	2310.88	2301.92	2302.81
6/30/2013	2321.18	2313.92	2314.20
9/30/2013	2332.17	2325.93	2325.64
12/31/2013	2342.58	2337.93	2337.13
3/31/2014	2355.26	2349.94	2348.69
6/30/2014	2373.47	2361.94	2360.30
9/30/2014	2390.56	2373.95	2371.97
12/31/2014	2409.00	2385.95	2383.69
3/31/2015	2427.52	2397.96	2395.47
6/30/2015	2439.22	2409.96	2407.32
9/30/2015	2447.29	2421.97	2419.22
12/31/2015	2450.95	2433.97	2431.17
3/31/2016	2448.94	2445.98	2443.19
6/30/2016	2444.56	2457.99	2455.27
9/30/2016	2440.90	2469.99	2467.41
12/31/2016	2440.56	2482.00	2479.60
3/31/2017	2446.89	2494.00	2491.86
6/30/2017	2460.32	2506.01	2504.18
9/30/2017	2478.57	2518.01	2516.56
12/31/2017	2496.25	2530.02	2529.00
3/31/2018	2515.35	2542.02	2541.50
6/30/2018	2538.61	2554.03	2554.06
9/30/2018	2566.72	2566.03	2566.69
12/31/2018	2599.91	2578.04	2579.38
3/31/2019	2625.41	2590.04	2592.13
6/30/2019	2639.39	2602.05	2604.94
9/30/2019	2642.43	2614.05	2617.82
12/31/2019	2639.56	2626.06	2630.76
12/31/2019	2039.30	2020.00	2030.70
Annual Trend		1.8%	2.0%
R-Squared		0.956	0.958

<sup>(2) =</sup> Average Index for Austin, Corpus Christi, Dallas, El Paso, Fort Worth, Houston, Odessa, and San Antonio

<sup>(3)</sup> - (4) = (2) fitted to linear and exponential distributions

Loss Trend Analysis

Boeckh Commercial Construction Index Trend (Coastal)

Calendar Year         Texas Index         Fitted Trends All Years Linear         Exponential           (1)         (2)         (3)         (4)           3/31/2008         (30/2008         (4)           8/30/2008         (30/2008         (4)           3/31/2009         (30/2009         (4)           8/30/2009         (30/2009         (4)           9/30/2009         (4)         (4)           9/30/2009         (4)         (4)           9/30/2009         (4)         (4)           9/30/2009         (4)         (4)           9/30/2010         (2165.19         (2178.18           9/30/2010         (2167.19         (2191.16           9/30/2010         (2167.19         (2191.16           9/30/2011         (2143.28         (2217.12         (2219.30           9/30/2011         (2181.54         (2243.09         (2243.41           9/30/2011         (2181.54         (2243.09         (2243.41           12/31/2011         (2143.28         (2217.12         (2219.30           9/30/2012         (2299.43         (2250.67         (2255.56           3/31/2012         (2252.16         (2269.05         (2267.78           6				
Calendar Year Ending         Coastal Index         All Years Linear         Exponential           (1)         (2)         (3)         (4)           3/31/2008         6/30/2008         8           9/30/2009         9/30/2009         8           12/31/2009         6/30/2009         9/30/2009           9/30/2010         2253.49         2152.21         2160.16           3/31/2010         2230.60         2165.19         2171.86           6/30/2010         2198.60         2178.18         2183.62           9/30/2010         2167.19         2191.16         2195.49           12/31/2010         2144.34         2204.14         2207.34           3/31/2011         2143.28         2217.12         2219.30           6/30/2011         2155.06         2230.11         2231.32           9/30/2011         2155.06         2230.11         2231.32           12/31/2011         2220.60         2256.07         2255.56           3/31/2012         2252.16         2269.05         2267.78           6/30/2012         2277.36         2282.04         2280.07           9/30/2013         2349.49         2333.97         2329.88           3/31/2013         233		Teyas	Fitted Trends	
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12/31/2014         2450.88         2411.86         2406.64           3/31/2015         2465.88         2424.85         2419.67           6/30/2015         2477.55         2437.83         2432.78           9/30/2015         2486.84         2450.81         2445.96           12/31/2015         2492.85         2463.80         2459.21           3/31/2016         2493.63         2476.78         2472.53           6/30/2016         2490.89         2489.76         2485.92           9/30/2016         2485.91         2502.74         2499.39           12/31/2016         2482.14         2515.73         2512.93           3/31/2017         2484.26         2528.71         2526.54           6/30/2017         2494.82         2541.69         2540.23           9/30/2017         2509.93         2554.67         2553.99           12/31/2018         2547.16         2580.64         2581.74           6/30/2018         2597.57         2606.61         2609.78           12/31/2018         2632.34         2619.59         2623.92           3/31/2019         2661.80         2632.57         2638.13           6/30/2019         2677.57         2645.55         2652.				
3/31/2015 2465.88 2424.85 2419.67 6/30/2015 2477.55 2437.83 2432.78 9/30/2015 2486.84 2450.81 2445.96 12/31/2015 2492.85 2463.80 2459.21 3/31/2016 2493.63 2476.78 2472.53 6/30/2016 2490.89 2489.76 2485.92 9/30/2016 2485.91 2502.74 2499.39 12/31/2016 2482.14 2515.73 2512.93 3/31/2017 2484.26 2528.71 2526.54 6/30/2017 2494.82 2541.69 2540.23 9/30/2017 2509.93 2554.67 2553.99 12/31/2018 2547.16 2580.64 2581.74 6/30/2018 2597.57 2606.61 2609.78 12/31/2018 2632.34 2619.59 2623.92 3/31/2019 2661.80 2632.57 2638.13 6/30/2019 2677.57 2645.55 2652.43 9/30/2019 2679.79 2671.52 2681.24 Annual Trend 2.0% 2.2%		-		
6/30/2015 2477.55 2437.83 2432.78 9/30/2015 2486.84 2450.81 2445.96 12/31/2015 2492.85 2463.80 2459.21 3/31/2016 2493.63 2476.78 2472.53 6/30/2016 2490.89 2489.76 2485.92 9/30/2016 2485.91 2502.74 2499.39 12/31/2016 2482.14 2515.73 2512.93 3/31/2017 2484.26 2528.71 2526.54 6/30/2017 2494.82 2541.69 2540.23 9/30/2017 2509.93 2554.67 2553.99 12/31/2018 2547.16 2580.64 2581.74 6/30/2018 2597.57 2606.61 2609.78 12/31/2018 2632.34 2619.59 2623.92 3/31/2019 2661.80 2632.57 2638.13 6/30/2019 2677.57 2645.55 2652.43 9/30/2019 2679.79 2671.52 2681.24 Annual Trend				
9/30/2015				
3/31/2016 2493.63 2476.78 2472.53 6/30/2016 2490.89 2489.76 2485.92 9/30/2016 2485.91 2502.74 2499.39 12/31/2016 2482.14 2515.73 2512.93 3/31/2017 2484.26 2528.71 2526.54 6/30/2017 2494.82 2541.69 2540.23 9/30/2017 2509.93 2554.67 2553.99 12/31/2017 2528.31 2567.66 2567.83 3/31/2018 2547.16 2580.64 2581.74 6/30/2018 2569.79 2593.62 2595.72 9/30/2018 2597.57 2606.61 2609.78 12/31/2018 2632.34 2619.59 2623.92 3/31/2019 2661.80 2632.57 2638.13 6/30/2019 2677.57 2645.55 2652.43 9/30/2019 2684.16 2658.54 2666.79 12/31/2019 2679.79 2671.52 2681.24				
6/30/2016 2490.89 2489.76 2485.92 9/30/2016 2485.91 2502.74 2499.39 12/31/2016 2482.14 2515.73 2512.93 3/31/2017 2484.26 2528.71 2526.54 6/30/2017 2494.82 2541.69 2540.23 9/30/2017 2509.93 2554.67 2553.99 12/31/2017 2528.31 2567.66 2567.83 3/31/2018 2547.16 2580.64 2581.74 6/30/2018 2569.79 2593.62 2595.72 9/30/2018 2597.57 2606.61 2609.78 12/31/2018 2632.34 2619.59 2623.92 3/31/2019 2661.80 2632.57 2638.13 6/30/2019 2677.57 2645.55 2652.43 9/30/2019 2679.79 2671.52 2681.24	12/31/2015	2492.85	2463.80	2459.21
9/30/2016 2485.91 2502.74 2499.39 12/31/2016 2482.14 2515.73 2512.93 3/31/2017 2484.26 2528.71 2526.54 6/30/2017 2494.82 2541.69 2540.23 9/30/2017 2509.93 2554.67 2553.99 12/31/2017 2528.31 2567.66 2567.83 3/31/2018 2547.16 2580.64 2581.74 6/30/2018 2569.79 2593.62 2595.72 9/30/2018 2597.57 2606.61 2609.78 12/31/2018 2632.34 2619.59 2623.92 3/31/2019 2661.80 2632.57 2638.13 6/30/2019 2677.57 2645.55 2652.43 9/30/2019 2684.16 2658.54 2666.79 12/31/2019 2679.79 2671.52 2681.24	3/31/2016	2493.63	2476.78	2472.53
12/31/2016         2482.14         2515.73         2512.93           3/31/2017         2484.26         2528.71         2526.54           6/30/2017         2494.82         2541.69         2540.23           9/30/2017         2509.93         2554.67         2553.99           12/31/2017         2528.31         2567.66         2567.83           3/31/2018         2547.16         2580.64         2581.74           6/30/2018         2569.79         2593.62         2595.72           9/30/2018         2597.57         2606.61         2609.78           12/31/2018         2632.34         2619.59         2623.92           3/31/2019         2661.80         2632.57         2638.13           6/30/2019         2677.57         2645.55         2652.43           9/30/2019         2684.16         2658.54         2666.79           12/31/2019         2679.79         2671.52         2681.24	6/30/2016	2490.89	2489.76	2485.92
3/31/2017 2484.26 2528.71 2526.54 6/30/2017 2494.82 2541.69 2540.23 9/30/2017 2509.93 2554.67 2553.99 12/31/2017 2528.31 2567.66 2567.83 3/31/2018 2547.16 2580.64 2581.74 6/30/2018 2569.79 2593.62 2595.72 9/30/2018 2597.57 2606.61 2609.78 12/31/2018 2632.34 2619.59 2623.92 3/31/2019 2661.80 2632.57 2638.13 6/30/2019 2677.57 2645.55 2652.43 9/30/2019 2684.16 2658.54 2666.79 12/31/2019 2679.79 2671.52 2681.24	9/30/2016	2485.91	2502.74	2499.39
6/30/2017 2494.82 2541.69 2540.23 9/30/2017 2509.93 2554.67 2553.99 12/31/2017 2528.31 2567.66 2567.83 3/31/2018 2547.16 2580.64 2581.74 6/30/2018 2569.79 2593.62 2595.72 9/30/2018 2597.57 2606.61 2609.78 12/31/2018 2632.34 2619.59 2623.92 3/31/2019 2661.80 2632.57 2638.13 6/30/2019 2677.57 2645.55 2652.43 9/30/2019 2679.79 2671.52 2681.24		_		
9/30/2017         2509.93         2554.67         2553.99           12/31/2017         2528.31         2567.66         2567.83           3/31/2018         2547.16         2580.64         2581.74           6/30/2018         2569.79         2593.62         2595.72           9/30/2018         2597.57         2606.61         2609.78           12/31/2018         2632.34         2619.59         2623.92           3/31/2019         2661.80         2632.57         2638.13           6/30/2019         2677.57         2645.55         2652.43           9/30/2019         2684.16         2658.54         2666.79           12/31/2019         2679.79         2671.52         2681.24   Annual Trend 2.0%				
12/31/2017     2528.31     2567.66     2567.83       3/31/2018     2547.16     2580.64     2581.74       6/30/2018     2569.79     2593.62     2595.72       9/30/2018     2597.57     2606.61     2609.78       12/31/2018     2632.34     2619.59     2623.92       3/31/2019     2661.80     2632.57     2638.13       6/30/2019     2677.57     2645.55     2652.43       9/30/2019     2684.16     2658.54     2666.79       12/31/2019     2679.79     2671.52     2681.24   Annual Trend  2.0%  2.2%				
3/31/2018 2547.16 2580.64 2581.74 6/30/2018 2569.79 2593.62 2595.72 9/30/2018 2597.57 2606.61 2609.78 12/31/2018 2632.34 2619.59 2623.92 3/31/2019 2661.80 2632.57 2638.13 6/30/2019 2677.57 2645.55 2652.43 9/30/2019 2684.16 2658.54 2666.79 12/31/2019 2679.79 2671.52 2681.24				
6/30/2018 2569.79 2593.62 2595.72 9/30/2018 2597.57 2606.61 2609.78 12/31/2018 2632.34 2619.59 2623.92 3/31/2019 2661.80 2632.57 2638.13 6/30/2019 2677.57 2645.55 2652.43 9/30/2019 2684.16 2658.54 2666.79 12/31/2019 2679.79 2671.52 2681.24 Annual Trend 2.0% 2.2%				
9/30/2018     2597.57     2606.61     2609.78       12/31/2018     2632.34     2619.59     2623.92       3/31/2019     2661.80     2632.57     2638.13       6/30/2019     2677.57     2645.55     2652.43       9/30/2019     2684.16     2658.54     2666.79       12/31/2019     2679.79     2671.52     2681.24   Annual Trend  2.0%  2.2%				
12/31/2018     2632.34     2619.59     2623.92       3/31/2019     2661.80     2632.57     2638.13       6/30/2019     2677.57     2645.55     2652.43       9/30/2019     2684.16     2658.54     2666.79       12/31/2019     2679.79     2671.52     2681.24   Annual Trend  2.0%  2.2%				
3/31/2019 2661.80 2632.57 2638.13 6/30/2019 2677.57 2645.55 2652.43 9/30/2019 2684.16 2658.54 2666.79 12/31/2019 2679.79 2671.52 2681.24 Annual Trend 2.0% 2.2%				
6/30/2019 2677.57 2645.55 2652.43 9/30/2019 2684.16 2658.54 2666.79 12/31/2019 2679.79 2671.52 2681.24 Annual Trend 2.0% 2.2%				
9/30/2019 2684.16 2658.54 2666.79 12/31/2019 2679.79 2671.52 2681.24 Annual Trend 2.0% 2.2%				
12/31/2019 2679.79 2671.52 2681.24  Annual Trend 2.0% 2.2%				
R-Squared 0.942 0.937				
	R-Squared		0.942	0.937

<sup>(2) =</sup> Average Index for Corpus Christi and Houston

<sup>(3)</sup> - (4) = (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	179.35	179.44						
12/31/2010	178.72	179.88	179.95						
3/31/2011	178.97		180.47						
6/30/2011	179.61	180.96	180.98						
9/30/2011	180.52	181.49	181.50						
12/31/2011	181.55	182.03	182.01						
3/31/2012	182.78	182.56	182.53						
6/30/2012	183.87	183.10	183.05						
9/30/2012	184.57	183.64	183.58						
12/31/2012	185.03	184.17	184.10						
3/31/2013	185.38	184.71	184.63						
6/30/2013	185.51	185.24	185.15						
9/30/2013	185.82		185.68						
12/31/2013	186.03		186.21						
3/31/2014	186.43	186.85	186.74						
6/30/2014	186.87	187.39	187.27						
9/30/2014	187.59	187.92	187.81						
12/31/2014	188.62	188.46	188.34						
3/31/2015	189.46	188.99	188.88	189.1°	1 189.16	5			
6/30/2015	189.59	189.53	189.42	189.6	4 189.67	•			
9/30/2015	190.03	190.07	189.96	190.17	7 190.19	)			
12/31/2015	190.50	190.60	190.50	190.69	9 190.70	)			
3/31/2016	190.95	191.14	191.05	191.22	2 191.22	191.21	191.24	4	
6/30/2016	192.03	191.67	191.59	191.7	5 191.74	191.74	191.76	6	
9/30/2016	192.82	192.21	192.14	192.2	7 192.26	192.27	192.28	3	
12/31/2016	193.56	192.75	192.69	192.80	192.78	192.80	192.80	)	
3/31/2017	193.86	193.28	193.24	193.33	3 193.31	193.33	193.32	2 192.86	192.8
6/30/2017	194.07	193.82	193.79	193.86	5 193.83	193.85	193.8	5 193.45	193.4
9/30/2017	194.20	194.35	194.34	194.38	3 194.36	194.38	194.37	7 194.05	194.0
12/31/2017	194.18	194.89	194.90	194.9 <sup>-</sup>	1 194.89	194.91	194.90	194.64	194.6
3/31/2018	194.71	195.42	195.45	195.4	4 195.42	195.44	195.42	2 195.23	3 195.2
6/30/2018	195.24	195.96	196.01	195.97	7 195.95	195.97	195.9	5 195.83	3 195.8
9/30/2018	195.63	196.50	196.57	196.49	9 196.48	196.50	196.48	3 196.42	2 196.4
12/31/2018	196.26	197.03	197.13	197.02	2 197.01	197.03	197.02	2 197.01	197.00
3/31/2019	197.08	197.57	197.69	197.5	5 197.55	197.56	197.5	5 197.60	197.59
6/30/2019	198.20	198.10	198.26	198.08	3 198.09	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	2 198.79	
12/31/2019	200.38	199.18	199.39	199.13	3 199.16	199.14	199.16	5 199.38	3 199.3
Annual Trend		1.1%	1.1%	1.1%	6 1.1%	1.1%	1.1%	6 1.2%	5 1.2%
R-Squared		0.987	0.987						

<sup>(2) =</sup> Weighted average of CPI for Lodging, Apparel, Furnishings, and Medical Care

<sup>(3)</sup> - (10) = (2) fitted to linear and exponential distributions

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

Accident Year	Paid Loss (\$000)	Paid ALAE (\$000)	Paid ULAE (\$000)
(1)	(2)	(3)	(4)
2010 2011 2012 2013 2014 2015 2016 2017 2018 2019	18,005 96,089 66,741 70,811 7,002 138,583 28,409 1,338,484 11,663 12,936	725 829 901 1,017 2,679 484 6,905	14,386 14,961 12,922 5,796 37,109 14,882 249,300 6,280
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)

<sup>(2) =</sup> Cumulative Loss Payments as of 12/31/19 from TWIA's 2019 Schedule P

<sup>(3) =</sup> Cumulative DCC Payments as of 12/31/19 from TWIA's 2019 Schedule P

<sup>(4) =</sup> Cumulative AAO Payments as of 12/31/19 from TWIA's 2019 Schedule P

Development of Hurricane LAE factor Using TWIA Commercial + Residential Experience

Hurricane (Year) (1) Ike (2008) Harvey (2017)	Loss (2) 1,950,833,975 1,336,923,861	ALAE (3) 186,293,648 144,947,255	ULAE (4) 127,269,430 106,821,442	LAE Ratio (5) 16.1% 18.8%
Total	3,287,757,836	331,240,903	234,090,872	
Paid ALAE to Loss ra	atio			0.101
Paid ULAE to Loss ra	atio			0.071
Selected Hurricane L	AE ratio			0.172

### 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

<sup>(3) =</sup> Cumulative ALAE Payments as of 06/30/2020

<sup>(4) =</sup> Cumulative ALAE Payments as of 06/30/2020

<sup>(5) = ((3)+(4))/(2)</sup> 

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	42.8%	6 0.172	2 50.2%	,
Hurricane Models AIR Model	51.9%	• • • • • • • • • • • • • • • • • • • •		
RMS Model	39.7%	6 0.172	2 46.6%	75%
Weighted Average of Models	42.8%	6 0.172	2 50.1%	,

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

Industry Experience -- Commercial Extended Coverage 1970 - 2019 -- Hurricane Years Only

	Earned Premium	
Accide	ent at Current	Incurred
Year	TWIA Rate Level	Loss Ratio
	(1) (2)	(3)
1970	58,356,336	39.6%
1971	63,040,303	88.7%
1980	70,042,582	54.9%
1983	41,090,972	365.3%
1986	52,951,602	7.6%
1989	83,916,652	6.4%
1990	71,387,141	97.1%
1999	167,478,166	8.3%
2003	200,309,387	21.8%
2005	252,973,058	172.5%
2007	330,332,938	15.0%
2008	297,781,052	474.4%
2017	194,491,878	477.9%
(4)	Simple Average Loss Ratio for Hurricane Years	140.7%
(5)	Selected Non-Hurricane Loss Ratio	7.0%
(6)	Average Hurricane Loss Ratio for Hurricane Years	133.7%
(7)	Historical Hurricane Frequency (a) 50.0-Year (1/1/1970 - 12/31/2019)	0.240
	(a) 30.0-1-ear (1/1/1970 - 12/31/2019) (b) 169-Year (1/1/1851 - 12/31/2019)	0.320
	Selected Frequency	0.320
(8)	Indicated Hurricane Loss Ratio	42.8%

- (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 -- Commercial Extended Coverage 1970 - 2019

ccident	Earned	Earned Premium	Earned Premium at	Incurred	Incurred	Hurricane
ear	Premium	at 1992 CMR	Current Rates	Losses	Loss Ratio	Indicator
(1)	(2)	(3)	(4)	(5)	(6)	(7)
970	10,874,210	18,835,352	58,356,336	23,092,142	39.6%	Н
971	13,340,143	, ,	63,040,303	55,893,676		
972	18,906,678	24,314,307	75,331,423	8,704,522		
973	21,737,541	23,257,532	72,057,286	3,837,493		
974	22,348,193		70,778,115	2,193,087	3.1%	
975	24,396,629		77,326,680	3,943,412		
976	26,795,934		74,698,255	2,218,115		
977 977	30,910,821	27,119,226	84,021,720	1,898,346	2.3%	
978	32,709,599	, ,	81,840,910	2,535,872		
979	31,306,685		75,951,067	4,535,147	6.0%	
979 980	28,751,765		70,042,582	38,431,071	54.9%	
981	·			4,272,728	6.4%	
	24,129,384		66,297,842	4,212,120		
982 983	18,505,004 12,680,397	17,523,231 13,262,706	54,291,078		3.4% 365.3%	
983 984	12,680,397	13,262,706	41,090,972 46,450,673		365.3% 7.6%	
			46,450,673			
985	15,169,575	, ,	50,881,979		3.7%	
986	21,130,682		52,951,602		7.6%	
987	31,114,529		82,943,320		1.3%	
988	25,065,531	24,117,319	74,721,108		8.4%	
989	24,167,085	, ,	83,916,652		6.4%	
990	19,677,404		71,387,141		97.1%	
991	21,794,680		79,113,047		51.3%	
992	23,737,753		83,498,883		1.3%	
993	21,990,182		68,125,584		6.4%	
994	16,604,950		51,442,134		8.5%	
995	32,374,229		100,295,361		19.9%	
996	55,367,089		171,527,241		2.4%	
997	53,196,024		164,801,282		3.9%	
998	53,986,058		169,786,152		15.6%	
999	52,435,243		167,478,166		8.3%	
000	41,739,697		127,598,253		7.0%	
001	42,330,042		121,614,211		5.8%	
002	69,156,402		190,110,949		14.1%	
003	78,368,305		200,309,387		21.8%	Н
004	112,957,791		262,400,948		2.1%	
005	119,598,806		252,973,058		172.5%	Н
006	148,019,940		287,762,390		2.2%	
007	186,207,969		330,332,938		15.0%	Н
800	177,673,659		297,781,052		474.4%	Н
009	185,204,697		282,807,572		2.7%	
010	193,721,394		272,566,001		3.9%	
011	186,576,207		256,169,132		15.7%	
012	203,887,603		266,481,097		18.6%	
013	224,921,677		280,027,487		7.0%	
014	235,022,975		278,737,248		1.2%	
015	227,324,155		256,648,972		14.5%	
016	210,615,830		226,622,633		3.8%	
017	185,230,360		194,491,878		477.9%	
018	186,441,993		190,916,602		1.3%	
019	184,576,503		184,576,503		2.5%	
otal / Average	3,997,516,033		7,245,373,205		42.2%	
rerage of Non-Hu	ırricane Years				7.6%	
•	ırricane Years Excludir	~ 1001			6.4%	

Notes: (2) Source: TDI. 1970 - 1995 are year ending 9/30/xx as of 12/31/99; 1996 - 2019 are year ending 12/31/xx as of 12/31/19

<sup>(3)</sup> Source: TDI. (1992 MR = 1992 manual rates)

<sup>(4) 1993 - 2019:</sup> Sum of Exhibit 6, Sheet 4 - Sheet 7, (5); 1970 - 1992: (3) \* 3.098, factor to bring industry premium to TWIA curr't rate level

<sup>(5)</sup> Source: TDI. 1970 - 1981 are year ending 9/30/xx as of 12/31/99; 1982 - 2019 are year ending 12/31/xx as of 12/31/19

<sup>(6) 1983 - 2019:</sup> Exhibit 6, Sheet 3; 1970 - 1982: (5) / (4)

<sup>(7) &</sup>quot;H" indicates occurrence of hurricane(s) during the time period (years ending 12/31/xx)

Industry Experience -- Commercial Extended Coverage

ccident	· · · ·	<del></del> _			Weighted	Selected
'ear	Territory 8	Territory 9	Territory 10	Tier 2	Loss Ratio	Loss Ratio
(1)	(2)	(3)	(4)	(5)	(6)	(7)
983	878.7%	3.8%	40.9%	147.2%	365.3%	365.3%
984	7.5%	3.8%	9.7%	14.1%	7.6%	7.6%
985	3.7%	2.5%			3.7%	3.7%
986	2.9%	1.0%	15.9%	12.4%	7.6%	7.6%
987	0.5%	1.6%	2.0%	3.0%	1.3%	1.3%
988	11.5%	3.4%	8.1%	4.7%	8.4%	8.4%
989	13.3%	1.7%	1.9%	5.4%	6.4%	6.4%
990	235.5%	2.5%	8.8%	6.8%	97.1%	97.1%
991	21.3%	21.0%	99.9%	4.6%	51.3%	51.3%
992	0.7%	1.0%	2.1%	3.8%	1.3%	1.3%
993	13.5%	1.7%	1.7%	5.7%	6.4%	6.4%
994	0.3%	3.7%	19.6%	7.9%	8.5%	8.5%
995	7.8%	10.3%	37.6%	20.6%	19.9%	19.9%
996	1.5%	2.9%	3.1%	6.6%	2.4%	2.4%
997	5.2%	2.0%	3.6%	9.0%	3.9%	3.9%
998	20.7%	13.7%	11.4%	9.0%	15.6%	15.6%
999	2.7%	12.6%	11.7%	8.9%	8.3%	8.3%
000	2.1%	2.0%	13.8%	58.9%	7.0%	7.0%
001	7.0%	3.2%				5.8%
002	11.7%	31.3%	7.2%	9.6%	14.1%	14.1%
003	2.4%	8.4%				21.8%
004	2.9%	0.6%				
005	66.6%	1.7%		50.9%	172.5%	172.5%
006	2.3%	1.0%				
007	1.6%	56.4%				
800	700.9%	36.5%				
009	2.5%	4.7%				
010	1.5%	4.6%				
011	3.9%	31.0%				
012	19.0%	24.2%				
013	14.2%	4.3%				
014	0.6%	2.4%				
015	12.1%	4.5%				
016	0.9%	8.2%			3.8%	
017	81.5%	1243.3%				
018	0.7%	1.2%				
019	1.1% 58.5%	0.9%	4.3%	28.0%	2.5%	2.5% 50.8%

## TWIA 2019 Written Premium by Territory / Tier

		Territory 8	Territory 9	Territory 10	Tier 2	Total
(8) (9)	Amount % Share	23,347,170 39.57%	,- ,	, ,	,	

- (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 -- Commercial Extended Coverage

Tier 1 -- Territory 8 (Galveston County)

Accident Year	Earned Premium	Earned Premium at 1992 MR	TWIA Factor to Current Rate Level	Earned Premium at Current Rates	Incurred Loss	Incurred Loss Ratio
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1983	913,865	968,224	3.098	2,999,558	26,357,425	878.7%
1984	1,195,339	1,366,667	3.098	4,233,934	318,455	7.5%
1985	2,581,481	2,777,593	3.098	8,604,983	314,878	3.7%
1986	3,013,362	2,349,181	3.098	7,277,763	211,282	2.9%
1987	3,004,153	2,585,122	3.098	8,008,708	37,480	0.5%
1988	2,905,355	2,728,206	3.098	8,451,982	969,836	11.5%
1989	2,825,114	3,015,974	3.098			13.3%
1990	2,303,321	2,474,141	3.098	7,664,889	18,053,460	235.5%
1991	2,203,500	2,080,579	3.098	6,445,634	1,371,244	21.3%
1992	2,352,391	2,012,473	3.098	6,234,641	46,331	0.7%
1993	2,406,016		3.098	7,453,838	1,005,945	13.5%
1994	2,807,090		3.098	8,696,365	28,034	0.3%
1995	2,645,757		3.098			7.8%
1996	5,519,716		3.098	17,100,080	249,644	1.5%
1997	5,461,636		3.098	16,920,148	886,485	5.2%
1998	6,133,105		3.145	19,288,615	3,994,564	20.7%
1999	6,706,028		3.194	21,419,053	575,316	2.7%
2000	4,997,201		3.057	15,276,443	320,131	2.1%
2001	4,785,262		2.873	13,748,058	962,576	7.0%
2002	8,206,069		2.749	22,558,484	2,632,325	11.7%
2003	8,793,047		2.556	22,475,028	529,845	2.4%
2004	12,425,339		2.323	28,864,062	830,387	2.9%
2005	13,839,253		2.112	29,228,502	19,469,845	66.6%
2006	18,414,310		1.958	36,055,219	812,370	2.3%
2007	24,924,710		1.774	44,216,436	710,669	1.6%
2008	24,970,117		1.676	41,849,916	293,310,706	700.9%
2009	29,363,002		1.527	44,837,304	1,140,669	2.5%
2010	31,708,901		1.407	44,614,424	669,882	
2011	31,271,334		1.373			3.9%
2012	35,124,210		1.307	45,907,342	8,709,842	
2013	37,650,973		1.245	46,875,461	6,670,061	
2014	38,263,554		1.186	45,380,575	258,179	0.6%
2015	36,780,958		1.129	41,525,702	5,012,267	
2016	36,187,907		1.076	38,938,188	331,694	0.9%
2017	32,595,075		1.050	34,224,829	27,903,575	81.5%
2018	33,178,454		1.024	33,974,737	245,785	0.7%
2019	33,603,360		1.000	33,603,360	378,013	1.1%
Total	552,060,265			875,429,845	428,874,288	49.0%

- (2) Provided by TDI. 1983 1995 are year ending 9/30/xx as of 12/31/99; 1996 2019 are year ending 12/31/xx as of 12/31/19
- (3) Provided by TDI (1992 MR = 1992 manual rates)
- (4) Represents 1/1/98 through 1/1/18 rate changes for TWIA; factors assume uniform earning of written premium and that TWIA premium represents 86.8% of industry data in Tier 1 -- Territory 8
- (5) = (3) \* (4) for 1983 1992; (2) \* (4) for 1993 2019
- (6) Provided by TDI. 1983 1995 are year ending 9/30/xx as of 12/31/99; 1996 2008 are year ending 12/31/xx as of 12/31/17 2008 is year ending 12/31/2018; 2009 2018 are year ending 12/31/xx as of 12/31/2019 2008 IKE incurred loss was adjusted down by \$99,433,917
- (7) = (6) / (5)

Industry Experience -- Commercial Extended Coverage

Tier 1 -- Territory 9 (Nueces County)

Accident Year	Earned Premium	Earned Premium at 1992 MR	TWIA Factor to Current Rate Level	Earned Premium at Current Rates	Incurred Loss	Incurred Loss Ratio
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1983	745,985	820,826	3.098	2,542,919	96,051	3.8%
1984	558,639	652,809	3.098	2,022,402	76,481	3.8%
1985	1,235,059	1,383,103		, - ,	,	
1986	2,228,911	1,849,840		, ,	,	
1987	2,381,538	2,086,940		, ,	·	
1988	1,796,653	1,719,227	3.098	5,326,165	·	
1989	1,632,453				·	
1990	1,429,526	1,769,972	3.098	5,483,373	135,678	2.5%
1991	1,390,109			4,818,350	1,013,636	21.0%
1992	1,571,433	1,629,721	3.098	5,048,876	49,512	1.0%
1993	1,587,772		3.098			1.7%
1994	2,203,514		3.098			3.7%
1995	2,669,951		3.098	8,271,508	854,753	10.3%
1996	5,639,923		3.098	17,472,481	502,177	2.9%
1997	3,183,758		3.098	9,863,282	199,390	2.0%
1998	3,613,310		3.145	11,363,860	1,561,275	13.7%
1999	6,808,428		3.194	21,746,119	2,735,082	12.6%
2000	5,167,158		3.057	15,796,002	317,804	2.0%
2001	4,763,324		2.873	13,685,030	431,244	3.2%
2002	8,479,915		2.749	-,- ,	7,300,265	31.3%
2003	9,934,549		2.556	25,392,707	2,122,879	8.4%
2004	14,597,450		2.323	33,909,876	212,644	0.6%
2005	16,137,249		2.112	34,081,870	566,758	1.7%
2006	21,249,313		1.958	41,606,155	434,362	1.0%
2007	27,752,523		1.774	49,232,976	27,752,523	56.4%
2008	27,990,909		1.676	46,912,763	17,103,924	36.5%
2009	29,085,395		1.527	44,413,398		
2010	27,439,364		1.407			
2011	24,767,582		1.373	34,005,890	10,534,288	31.0%
2012	26,074,384		1.307		, ,	
2013	27,625,026		1.245	34,393,157	1,473,733	
2014	27,425,810		1.186		766,708	2.4%
2015	26,008,254		1.129	29,363,319	1,316,614	4.5%
2016	22,181,835		1.076	23,867,654	1,964,437	
2017	18,821,527		1.050	-, - ,	245,701,770	1243.3%
2018	18,223,401		1.024	18,660,763	227,247	
2019	16,527,733		1.000	16,527,733	145,415	0.9%
Total	440,929,663			737,980,614	338,586,822	45.9%

## Notes:

- (2) Provided by TDI. 1983 1995 are year ending 9/30/xx as of 12/31/99; 1996 2017 are year ending 1/0/xx as of 12/31/17
- (3) Provided by TDI (1992 MR = 1992 manual rates)

(7) = (6) / (5)

<sup>(4)</sup> Represents 1/1/98 through 1/1/18 rate changes for TWIA; factors assume uniform earning of written premium and that TWIA premium represents 88.3% of industry data in Tier 1 -- Territory 9

<sup>(5) = (3) \* (4)</sup> for 1983 - 1992; (2) \* (4) for 1993 - 2019

<sup>(6)</sup> Provided by TDI. 1983 - 1995 are year ending 9/30/xx as of 12/31/99; 1996 - 2008 are year ending 12/31/xx as of 12/31/17 2008 is year ending 12/31/2018; 2009 - 2018 are year ending 12/31/xx as of 12/31/2019 2008 IKE incurred loss was adjusted down by \$99,433,917

Industry Experience -- Commercial Extended Coverage

Tier 1 -- Territory 10 (Other Tier 1)

Accident Year	Earned Premium	Earned Premium at 1992 MR	TWIA Factor to Current Rate Level	Earned Premium at Current Rates	Incurred Loss	Incurred Loss Ratio
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1983	3,769,988	4,139,464	3.098	12,824,059	5,242,728	40.9%
1984	4,835,650	5,883,059	3.098	18,225,717	1,759,233	9.7%
1985	3,637,366	3,997,227	3.098	12,383,409	534,724	4.3%
1986	4,787,352	3,948,102	3.098	12,231,220	1,943,819	15.9%
1987	5,996,981	5,352,970	3.098	16,583,501	338,938	2.0%
1988	5,872,305	5,768,621	3.098	17,871,188	1,442,599	8.1%
1989	5,125,436	5,918,163	3.098	18,334,469	349,413	1.9%
1990	3,842,130	4,624,825	3.098	14,327,708	1,263,817	8.8%
1991	4,253,902	4,765,878	3.098	14,764,690	14,752,702	99.9%
1992	4,034,147	4,187,015	3.098	12,971,372	276,158	2.1%
1993	4,540,606		3.098			1.7%
1994	5,145,260		3.098	15,940,015	3,130,886	19.6%
1995	9,324,050		3.098	28,885,907	10,852,486	37.6%
1996	15,331,047		3.098	47,495,584	1,478,175	3.1%
1997	17,116,368		3.098	53,026,508	1,911,482	3.6%
1998	17,623,413		3.145	55,425,634	6,340,723	11.4%
1999	15,019,386		3.194	47,971,919	5,614,569	11.7%
2000	11,756,138		3.057	35,938,514	4,969,254	13.8%
2001	11,140,104		2.873	32,005,519	1,824,700	5.7%
2002	20,528,832		2.749	56,433,759	4,053,342	7.2%
2003	23,885,668		2.556	61,051,767	29,908,218	49.0%
2004	31,412,192		2.323	72,970,522	1,462,655	2.0%
2005	34,104,704		2.112	72,029,135	272,418,664	378.2%
2006	46,246,638		1.958	90,550,917	2,315,133	2.6%
2007	71,922,575		1.774	127,590,648	7,479,422	5.9%
2008	66,558,177		1.676	111,551,505	538,764,477	483.0%
2009	64,583,344		1.527	98,618,766	1,576,316	1.6%
2010	63,606,679		1.407	89,494,597		
2011	61,404,245		1.373	84,308,028	16,202,722	19.2%
2012	66,325,367		1.307			
2013	71,511,184		1.245	89,031,424	1,105,363	
2014	66,744,325		1.186	79,158,769	907,091	1.1%
2015	61,005,719		1.129	68,875,457	15,485,267	22.5%
2016	55,725,487		1.076	59,960,624	2,286,047	3.8%
2017	45,240,268		1.050	47,502,281	222,840,240	469.1%
2018	43,463,740		1.024	44,506,870	793,873	1.8%
2019	42,528,330		1.000	42,528,330	1,844,735	4.3%
Total	1,089,949,103			1,864,124,384	1,202,373,959	64.5%

- (2) Provided by TDI. 1983 1995 are year ending 9/30/xx as of 12/31/99; 1996 2017 are year ending 12/31/xx as of 12/31/19
- (3) Provided by TDI (1992 MR = 1992 manual rates)
- (4) Represents 1/1/98 through 1/1/18 rate changes for TWIA; factors assume uniform earning of written premium and that TWIA premium represents 72.4% of industry data in Tier 1 -- Territory 10
- (5) = (3) \* (4) for 1983 1992; (2) \* (4) for 1993 2019
- (6) Provided by TDI. 1983 1995 are year ending 9/30/xx as of 12/31/99; 1996 2008 are year ending 12/31/xx as of 12/31/17 2008 is year ending 12/31/2018; 2009 2018 are year ending 12/31/xx as of 12/31/2019 2008 IKE incurred loss was adjusted down by \$99,433,917
- (7) = (6) / (5)

Industry Experience -- Commercial Extended Coverage Tier 2 (Territories 1 and 11)

AY Ending	Earned Premium	Earned Premium at 1992 MR	TWIA Factor to Current Rate Level	Earned Premium at Current Rates	Incurred Loss	Incurred Loss Ratio
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1983	7,250,559	, ,	3.098	, ,-	, - ,	147.2%
1984	6,146,403					
1985	7,715,669			-,,	, ,	
1986	11,101,057					
1987	19,731,857					
1988	14,491,218			, ,		
1989	14,584,082			, ,		
1990	12,102,427					
1991	13,947,169			, ,		
1992	15,779,782			, ,		
1993	13,455,788		3.098	, ,	2,357,383	
1994	6,449,086		3.098	, ,	, ,	
1995	17,734,471		3.098	, ,		
1996	28,876,403		3.098	, ,		
1997	27,434,262		3.098	, ,		
1998	26,616,230		3.145	,,-		
1999	23,901,401		3.194	, ,	, ,	8.9%
2000	19,819,200		3.057	60,587,294	, ,	
2001	21,641,352		2.873	- , -,	17,852,673	
2002	31,941,586		2.749	- , , -	, ,	
2003	35,755,041		2.556	91,389,885	28,411,179	31.1%
2004	54,522,810		2.323	, ,		
2005	55,697,704		2.112	117,633,551		
2006	61,057,252		1.958	, ,	, ,	
2007	61,608,161		1.774	, ,		
2008	58,154,456		1.676	97,466,868	477,796,637	490.2%
2009	62,172,956		1.527	, ,	, ,	
2010	70,966,450		1.407	, ,		
2011	69,133,046		1.373	- //-		
2012	76,363,642		1.307	, ,		
2013	88,134,494		1.245	, ,		
2014	102,589,286		1.186	,,		
2015	103,529,224		1.129	, ,		
2016	96,520,601		1.076	,, -		
2017	88,573,490		1.050	, ,		133.8%
2018	91,576,398		1.024	, , -		
2019	91,917,080		1.000	91,917,080	25,743,583	28.0%
Total	1,608,992,093			2,843,754,300	1,016,824,468	35.8%

# Notes:

- (2) Provided by TDI. 1983 1995 are year ending 9/30/xx as of 12/31/99; 1996 2019 are year ending 12/31/xx as of 12/31/19
- (3) Provided by TDI (1992 MR = 1992 manual rates)

(7) = (6) / (5)

<sup>(4)</sup> Represents 1/1/98 through 1/1/18 rate changes for TWIA; factors assume uniform earning of written premium and that TWIA premium represents 1.0% of industry data in Tier 2

<sup>(5) = (3) \* (4)</sup> for 1983 - 1992; (2) \* (4) for 1993 - 2019

<sup>(6)</sup> Provided by TDI. 1983 - 1995 are year ending 9/30/xx as of 12/31/99; 1996 - 2008 are year ending 12/31/xx as of 12/31/17 2008 is year ending 12/31/2018; 2009 - 2018 are year ending 12/31/xx as of 12/31/2019 2008 IKE incurred loss was adjusted down by \$99,433,917

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	214,790	743,067	3.460				
Brazoria	407,860	1,217,859	2.986				
Calhoun	106,660	339,296	3.181				
Cameron	940,171	3,030,587	3.223				
Chambers	54,565	135,812	2.489				
Galveston	2,266,405	17,834,172	7.869				
Harris	34,538	190,595	5.518				
Jefferson	330,152	863,629	2.616				
Kenedy	694	822	1.184				
Kleberg	13,597	15,075	1.109				
Matagorda	81,017	245,366	3.029				
Nueces	1,434,990	5,058,188	3.525				
Refugio	23,556	35,689	1.515				
San Patricio	109,129	249,975	2.291				
Willacy	13,589	36,633	2.696				
	,	,					
Total	6,031,713	29,996,765	4.973				
` '	19 at Present Rates	57,743,025					
(6) Indicated Hurricane Loss Ratio 51.9%							

- (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

	TWIA Insured	Average					
	Limits (000s)	Annual	Modeled				
County	as of 11/30/19	Modeled Loss	Loss Cost				
(1)	(2)	(3)	(4)				
Aransas	214,790	741,180	3.451				
Brazoria	407,860	1,329,268	3.259				
Calhoun	106,660	460,024	4.313				
Cameron	940,171	3,179,117	3.381				
Chambers	54,565	169,330	3.103				
Galveston	2,266,405	10,831,037	4.779				
Harris	34,538	168,228	4.871				
Jefferson	330,152	869,871	2.635				
Kenedy	694	1,511	2.177				
Kleberg	13,597	25,772	1.895				
Matagorda	81,017	313,320	3.867				
Nueces	1,434,990	4,415,047	3.077				
Refugio	23,556	58,894	2.500				
San Patricio	109,129	325,539	2.983				
Willacy	13,589	53,172	3.913				
•							
Total	6,031,713	22,941,311	3.803				
(5) Inforce-Premi	um as of Nov 30, 20	19 at Present Rates	57,743,025				
` '	ricane Loss Ratio		39.7%				

- (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

Landfall			Landfal	II		
Year Month	Name	,	Year	Month	Name	
(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	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		
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		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	Ike	
			2017	Aug	Harvey	
Frequency	Date Period	# of Hurricane Years	Period	Annual Fre		_
	*				. ,	_
50.0-Year	1/1/1970 - 12/31/2019	12	50.0		0.240	
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 Earned Premium at Present Rate Level

Year		TWIA Written Premium	Factor to Current Rate Level		Written Premium at Current Rate Level	Earned Premium at Current Rate Level
	(1)	(2)	(3)		(4)	(5)
1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015		12,865,905 15,640,660 16,536,186 16,558,977 17,394,142 17,332,561 17,544,251 24,013,525 29,220,514 31,009,323 35,740,174 76,847,840 110,951,718 98,036,118 111,269,573 102,174,680 100,017,021 110,524,397 112,904,624 104,642,688 98,715,934		3.098 3.098 3.098 3.193 3.193 2.930 2.817 2.684 2.218 2.016 1.870 1.714 1.633 1.423 1.407 1.340 1.276 1.216 1.158 1.102	39,858,574 48,454,765 51,229,104 52,872,814	36,461,264 44,156,670 49,841,935 52,050,959 54,206,155 53,161,950 50,103,280 56,937,228 67,875,178 70,038,366 70,415,435 107,878,826 166,938,353 175,132,113 159,214,792 151,048,188 138,891,291 137,525,969 139,160,577 129,234,128
2016		88,278,690		1.050	92,692,625	100,738,792
2017 2018 2019		70,749,081 65,696,833 59,123,729		1.050 1.000 1.000	74,286,535 65,696,833 59,123,729	69,991,684
Total		1,543,789,143			2,354,913,474	2,341,883,590

<sup>(2)</sup> Provided by TWIA

<sup>(3)</sup> Exhibit 10, Sheet 2

<sup>(4) = (2) \* (3) (</sup>calculated on a monthly basis)

<sup>(5)</sup> Calculated from (4), using annual uniform earning assumption for 2003 and prior and monthly for 2004 and after

Calculation of On-Level Premium Factors

Year	Rate Level in Applicable F.O.Y.			E.O.Y.	Cumulat B.O.Y.	tive Rat	e Level			E.O.Y.	# Months B.O.Y.			E.O.Y.	Average Rate	Factor to Current Rate Level
(1)	(1)	(2)	(3)	(4)	Б.О.Т.	(5)		(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
, ,	. ,	, ,	` ,			. ,		, ,	, ,	. ,	. ,	, ,	. ,	, ,	, ,	, ,
1980	Prior			8/1/1980			1.000			1.175				5.0		
1981	8/1/1980			9/1/1981			1.175			1.132				4.0		4.285
1982	9/1/1981			9/1/1982			1.132			1.428				4.0		4.042
1983	9/1/1982			10/10/1983			1.428			1.514				2.7		
1984	10/10/1983			10/10/1983			1.514			1.514				0.0	_	
1985	10/10/1983	3/1/1985	3/15/1985	11/15/1985			1.514	1.892	2.428	2.651	2.0	0.5	8.0	-		2.181
1986	11/15/1985			11/15/1985			2.651			2.651	12.0			0.0		1.877
1987	11/15/1985			7/1/1987			2.651			2.407				6.0		
1988	7/1/1987			11/1/1988			2.407			2.075				2.0		
1989	11/1/1988			11/1/1988			2.075			2.075				0.0		
1990	11/1/1988			3/1/1990			2.075			2.104				10.0		
1991	3/1/1990			4/1/1991			2.104			2.083				9.0		
1992	1/1/1992			1/1/1992			1.606			1.606	12.0			0.0	1.606	3.098
1993	1/1/1992			10/1/1993			1.606			1.606	9.0			3.0	1.606	3.098
1994	10/1/1993			10/1/1993			1.606			1.606	12.0			0.0	1.606	3.098
1995	10/1/1993			10/1/1993			1.606			1.606	12.0			0.0	1.606	3.098
1996	10/1/1993			10/1/1993			1.606			1.606	12.0			0.0	1.606	3.098
1997	10/1/1993			10/1/1993			1.606			1.606	12.0			0.0	1.606	3.098
1998	1/1/1998			1/1/1998			1.558			1.558	12.0			0.0	1.558	3.193
1999	1/1/1998			1/1/1998			1.558			1.558				0.0		
2000	1/1/2000			1/1/2000			1.698			1.698	12.0			0.0	1.698	2.930
2001	1/1/2001			1/1/2001			1.766			1.766	12.0			0.0	1.766	2.817
2002	1/1/2002			1/1/2002			1.854			1.854	12.0			0.0	1.854	2.684
2003	1/1/2003			1/1/2003			2.039			2.039				0.0		
2004	1/1/2004			1/1/2004			2.243			2.243				0.0	_	_
2005	1/1/2005			1/1/2005			2.468			2.468	12.0			0.0	2.468	2.016
2006	1/1/2006			9/1/2006			2.591			2.798				4.0		
2007	1/1/2007			1/1/2007			2.902			2.902	12.0			0.0	2.902	1.714
2008	1/1/2007			2/1/2008			2.902			3.059				11.0		
2009	2/1/2008			2/1/2009			3.059			3.536	1.0			11.0	3.496	1.423
2010	2/1/2009			2/1/2009			3.536			3.536	12.0			0.0	3.536	1.407
2011	1/1/2011			1/1/2011			3.713			3.713				0.0	3.713	1.340
2012	1/1/2012			1/1/2012			3.898			3.898	12.0			0.0	3.898	1.276
2013	1/1/2013			1/1/2013			4.093			4.093	_			0.0		_
2014	1/1/2014			1/1/2014			4.298			4.298				0.0		
2015	1/1/2015			1/1/2016			4.513			4.738				0.0		
2016	1/1/2016			1/1/2017			4.738			4.738				0.0		
2017	1/1/2017			1/1/2018			4.738			4.975				0.0		
2018	1/1/2018			1/1/2019			4.975			4.975	12.0			0.0	4.975	
2019	1/1/2019			1/1/2020			4.975			4.975	12.0			0.0	4.975	1.000
Current	İ									4.975					4.975	1.000

## Notes:

(1) - (4) Rates in effect and beginning and end of year (B.O.Y. and E.O.Y.)

For each year except 1985, 2006, and 2008 the B.O.Y. and E.O.Y. rates are the only rates applicable

For 1985, there were two additional rate changes

For 2006, there was one additional rate change

For 2008, the rate change took effect mid-year

<sup>(5) - (8)</sup> Based on Exhibit 10, Sheet 3

<sup>(9) - (12)</sup> Number of months that each of the rates were effective

<sup>(13) =</sup> Weighted average of (5) - (8) using (9) - (12) as weights

<sup>(14) =</sup> Current (13) / (13)

History of Rate Level Changes

Effective		Rate	Cumulative	
Date		Change	Rate Level	
	(1)	(2)	(3)	
Prior				1.000
8/1/80		17.5%		1.175
9/1/81		-3.7%		1.132
9/1/82		26.2%		1.428
10/10/83		6.0%		1.514
3/1/85		25.0%		1.892
3/15/85		28.3%		2.428
11/15/85		9.2%		2.651
7/1/87		-9.2%		2.407
11/1/88		-13.8%		2.075
3/1/90		1.4%		2.104
4/1/91		-1.0%		2.083
1/1/92		-22.9%		1.606
10/1/93		0.0%		1.606
1/1/98		-3.0%		1.558
1/1/00		9.0%		1.698
1/1/01		4.0%		1.766
1/1/02		5.0%		1.854
1/1/03		10.0%		2.039
1/1/04		10.0%		2.243
1/1/05		10.0%		2.468
1/1/06		5.0%		2.591
9/1/06		8.0%		2.798
1/1/07		3.7%		2.902
2/1/08		5.4%		3.059
2/1/09		15.6%		3.536
1/1/11		5.0%		3.713
1/1/12		5.0%		3.898
1/1/13		5.0%		4.093
1/1/14		5.0%		4.298
1/1/15		5.0%		4.513
1/1/16		5.0%		4.738
1/1/17		0.0%		4.738
1/1/18		5.0%		4.975
1/1/19		0.0%		4.975

<sup>(2)</sup> Provided by TWIA, excludes 1/1/92 refund on in-force policies

<sup>(3)</sup> = Cumulation of (2)

Fixed Expenses and Permissible Loss & LAE Ratios

Ехре	ense Category	2017	2018	2019	Selected		
(1)	Direct Written Premium		\$395,551,679				
(2)	Direct Earned Premium	\$451,347,130	\$409,954,258	\$381,571,182			
(3)	Commission \$ Amount	67,661,211	63,280,811	59,474,929			
	% of DWP	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 DEP	5.9%	7.5%	8.2%	8.5%		
(6)	Taxes, Licenses & Fees						
(-)	\$ Amount	\$8,281,293	\$7,590,295	\$7,024,246			
	% of DWP	2.0%	1.9%				
(7)	Reinsurance Expense				15.2%		
(8)	Outstanding Class 1 Public Security Repa	yment			17.9%		
(9)	Total Fixed Expenses				41.6%		
(10)	10) Total Variable Expenses						
( - /							
(11)	Underwriting Contingency & Uncertainty P	rovision			5.0%		
(12)	Permissible Loss, LAE, and Fixed Expens	e 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	12,966,289
(2a)	Expected Average Annual Loss by Reinsurance Layer (AIR) 100% of \$921M xs \$2.1B	3,249,495
	Total	3,249,495
(2b)	Expected Average Annual Loss by Reinsurance Layer (RMS) 100% of \$921M xs \$2.1B	2,650,230
	Total	2,650,230
(2c)	Selected Total Average Annual Loss	2,949,862
(2d)	Selected Total Average Annual Loss+LAE	3,457,239
(3)	Expected Net Cost of Reinsurance	9,509,050
(4)	TWIA 2019 Earned Premium at Present Rates	62,410,281
(5)	Indicated Reinsurance Expense %	15.2%

- (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.
- (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) = Commercial Exhibit 10, Sheet 1
- (5) = (3) / (4)

Reconciliation of Paid Loss Data to Schedule P

	TWIA Provided Pa	aid Loss		Schedule P	
Accident	Commercial			Direct & Assumed	t
Year	& Farm	Residential	Total	Paid Loss	Difference
(1)	(2)	(3)	(4)	(5)	(6)
2009	2,553,456	8,479,585	11,033,041	10,403,000	630,041
2010	7,478,289	10,958,718	18,437,006	18,005,000	432,006
2011	19,217,587	76,980,633	96,198,219	96,089,000	109,219
2012	14,459,642	52,332,695	66,792,337	66,741,000	51,337
2013	7,351,329	63,503,334	70,854,663	70,811,000	43,663
2014	1,056,281	6,114,172	7,170,453	7,002,000	168,453
2015	18,644,220	119,859,509	138,503,729	138,583,000	(79,271)
2016	2,596,505	25,889,298	28,485,803	28,409,000	76,803
2017	437,190,922	901,238,563	1,338,429,484	1,338,484,000	(54,516)
2018	186,803	11,649,295	11,836,099	11,663,000	173,099
2019	806,862	12,384,305	13,191,168	12,936,000	255,168
Total	511,541,895	1,289,390,107	1,800,932,002	1,799,126,000	1,806,002

<sup>(2), (3)</sup> Provided by TWIA, as of 12/31/2019

<sup>(4) = (2) + (3)</sup> 

<sup>(5)</sup> Based on TWIA 2019 Annual Statement

<sup>(6) = (4) - (5)</sup> 

Reconciliation of Premium Data to Annual Statement

Calendar	TWIA Provided W	ritten Premium	Annual Statement Gross			
Year	Commercial	Residential	Total	Written Premium	Difference	
(1)	(2)	(3)	(4)	(5)	(6)	
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	1,024,097,249	3,747,110,802	4,771,208,051	4,763,715,604	7,492,447	

### Notes:

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

<sup>(4) = (2) + (3)</sup> 

<sup>(5)</sup> Based on TWIA Annual Statements

<sup>(6) = (4) - (5)</sup>