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

						2024
	Indicated Lo	oss & LAE Ratio				Indicated
			Fixed		Permissible	Rate
Hurricane Projection Method	Hurricane	Non-Hurricane	Expenses	Total	LLAE Ratio	Change
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Using Experience and Models	43.2%	13.9%	49.2%	106.3%	77.2%	+38.0%
Using Actual Industry Experience	38.2%	13.9%	49.2%	101.3%	77.2%	+31.0%
Maniak	EE 40/	42.00/	40.00/	440.50/	77.00/	. 54.00/
Verisk	55.4%	13.9%	49.2%	118.5%	77.2%	+54.0%
RMS	49.0%	13.9%	49.2%	112.1%	77.2%	+45.0%
Impact Forecasting	45.3%	13.9%	49.2%	108.4%	77.2%	+40.0%
CoreLogic RQE	42.6%	13.9%	49.2%	105.7%	77.2%	+37.0%
Average of All Models	48.1%	13.9%	49.2%	111.2%	77.2%	+44.0%

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

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

	2023 Written Prem	Indicated Non-Hurricane	
Territory	Amount	Share	Loss & LAE Ratio
(1)	(2)	(3)	(4)
Tier 1 - Territory 8 Tier 1 - Territory 9 Tier 1 - Territory 10	183,156,184 86,684,858 246,412,664	16.6%	11.9% 6.9% 17.4%
Tier 2	6,678,115	1.3%	33.7%
Total / Average	522,931,821	100.0%	13.9%

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

Projected Ultimate Non-Hurricane Loss & LAE Ratio

Tier 1 -- Territory 8 (Galveston County)

Accident						
Year	Ultimate		Net	Projected	Earned Premium	Indicated
Ending	Non-Hurricane	LAE	Trend	Non-Hurricane	at Current	Non-Hurricane
9/30	Loss	Factor	Factor	Loss & LAE	TWIA Rate Level	Loss & LAE Ratio
(1)	(2)	(3)	(4)	(5)	(6)	(7)
2014	520,624	0.290	1.145	768,988	141,396,555	0.5%
2015	17,456,712	0.290	1.131	25,469,168	143,824,430	17.7%
2016	10,988,633	0.290	1.135	16,089,007	140,103,503	11.5%
2017	2,721,261	0.290	1.097	3,850,938	133,016,924	2.9%
2018	2,556,928	0.290	1.083	3,572,207	121,376,251	2.9%
2019	4,884,869	0.290	1.051	6,622,857	114,641,201	5.8%
2020	5,651,316	0.290	1.064	7,756,770	113,445,809	6.8%
2021	25,649,071	0.290	1.007	33,318,913	117,940,724	28.3%
2022	12,074,652	0.290	0.970	15,109,012	129,461,860	11.7%
2023	33,728,902	0.290	1.024	44,554,530	159,933,055	27.9%
Total	116,232,968			157,112,390	1,315,140,312	11.9%

- (2) Exhibit 2, Sheet 3b
- (3) Exhibit 4
- (4) Exhibit 2, Sheet 5
- (5) = (2) * [1 + (3)] * (4) (6) Exhibit 9, Sheet 1a
- (7) = (5) / (6)

Projected Ultimate Non-Hurricane Loss & LAE Ratio

Tier 1 -- Territory 9 (Nueces County)

Accident						
Year	Ultimate		Net	Projected	Earned Premium	Indicated
Ending	Non-Hurricane	LAE	Trend	Non-Hurricane	at Current	Non-Hurricane
9/30	Loss	Factor	Factor	Loss & LAE	TWIA Rate Level	Loss & LAE Ratio
(1)	(2)	(3)	(4)	(5)	(6)	(7)
2014	1,618,066	0.290	1.145	2,389,964	78,255,381	3.1%
2015	9,468,390	0.290	1.131	13,814,286	81,529,229	16.9%
2016	9,533,582	0.290	1.135	13,958,594	80,522,915	17.3%
2017	7,674,191	0.290	1.097	10,859,978	76,211,725	14.2%
2018	1,116,311	0.290	1.083	1,559,565	68,808,541	2.3%
2019	840,804	0.290	1.051	1,139,954	62,864,123	1.8%
2020	483,920	0.290	1.064	664,209	60,369,447	1.1%
2021	788,242	0.290	1.007	1,023,950	59,850,735	1.7%
2022	1,209,235	0.290	0.970	1,513,116	62,591,785	2.4%
2023	1,566,684	0.290	1.024	2,069,527	76,445,090	2.7%
Total	34,299,425			48,993,143	707,448,971	6.9%

- (2) Exhibit 2, Sheet 3c
- (3) Exhibit 4
- (4) Exhibit 2, Sheet 5
- (5) = (2) * [1 + (3)] * (4) (6) Exhibit 9, Sheet 1b
- (7) = (5) / (6)

Projected Ultimate Non-Hurricane Loss & LAE Ratio

Tier 1 -- Territory 10 (Other Tier 1)

Accident						
Year	Ultimate		Net	Projected	Earned Premium	Indicated
Ending	Non-Hurricane	LAE	Trend	Non-Hurricane	at Current	Non-Hurricane
9/30	Loss	Factor	Factor	Loss & LAE	TWIA Rate Level	Loss & LAE Ratio
(1)	(2)	(3)	(4)	(5)	(6)	(7)
2014	2,847,173	0.290	1.145	4,205,417	233,107,124	1.8%
2015	86,534,172	0.290	1.131	126,252,492	237,999,667	53.0%
2016	12,170,939	0.290	1.135	17,820,080	227,183,607	7.8%
2017	21,918,178	0.290	1.097	31,017,071	207,881,527	14.9%
2018	6,779,148	0.290	1.083	9,470,944	179,645,974	5.3%
2019	10,208,022	0.290	1.051	13,839,934	159,579,121	8.7%
2020	22,040,186	0.290	1.064	30,251,478	148,714,964	20.3%
2021	30,328,898	0.290	1.007	39,398,148	147,041,832	26.8%
2022	13,200,665	0.290	0.970	16,517,992	157,257,092	10.5%
2023	32,660,717	0.290	1.024	43,143,501	211,507,410	20.4%
Total	238,688,098			331,917,057	1,909,918,318	17.4%

- (2) Exhibit 2, Sheet 3d
- (3) Exhibit 4
- (4) Exhibit 2, Sheet 5
- (5) = (2) * [1 + (3)] * (4) (6) Exhibit 9, Sheet 1c
- (7) = (5) / (6)

Projected Ultimate Non-Hurricane Loss & LAE Ratio

Tier 2 -- (Territories 1 and 11)

Accident						
Year	Ultimate		Net	Projected	Earned Premium	Indicated
Ending	Non-Hurricane	LAE	Trend	Non-Hurricane	at Current	Non-Hurricane
9/30	Loss	Factor	Factor	Loss & LAE	TWIA Rate Level	Loss & LAE Ratio
(1)	(2)	(3)	(4)	(5)	(6)	(7)
2014	30,748	0.290	1.145	45,416	4,882,886	0.9%
2015	339,607	0.290	1.131	495,483	4,986,385	9.9%
2016	446,561	0.290	1.135	653,832	5,015,200	13.0%
2017	483,192	0.290	1.097	683,779	4,890,478	14.0%
2018	283,290	0.290	1.083	395,776	4,631,462	8.5%
2019	2,728,066	0.290	1.051	3,698,685	4,510,864	82.0%
2020	456,670	0.290	1.064	626,807	4,586,202	13.7%
2021	2,128,105	0.290	1.007	2,764,472	4,749,377	58.2%
2022	728,027	0.290	0.970	910,980	5,048,518	18.0%
2023	4,773,253	0.290	1.024	6,305,276	5,922,961	106.5%
Total	12,397,519			16,580,506	49,224,333	33.7%

- (2) Exhibit 2, Sheet 3e
- (3) Exhibit 4
- (4) Exhibit 2, Sheet 5
- (5) = (2) * [1 + (3)] * (4) (6) Exhibit 9, Sheet 1d
- (7) = (5) / (6)

Interpolation of Development Factors

Accident						
Year	Evaluation	Schedule P	Schedule P	Schedule P	Interpolated	Interpolated
Ending	Age	Direct & Assumed	Direct & Assumed	Development	Age	Development
12/31	in Months	Paid Loss	Ultimate Loss	Factor	in Months	Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)
2014	120	7,871,000	7,871,000	1.000	123	1.000
2015	108	138,697,000	138,836,000	1.001	111	1.001
2016	96	28,422,000	28,422,000	1.000	99	1.000
2017	84	1,402,282,000	1,410,332,000	1.006	87	1.004
2018	72	12,097,000	12,107,000	1.001	75	1.002
2019	60	17,606,000	17,832,000	1.013	63	1.010
2020	48	64,031,000	65,043,000	1.016	51	1.015
2021	36	64,894,000	67,732,000	1.044	39	1.037
2022	24	27,771,000	30,224,000	1.088	27	1.077
2023	12	57,766,000	76,706,000	1.328	15	1.268

- (3) Based on TWIA 2023 Annual Statement
- (4) Based on TWIA 2023 Annual Statement
- (5) = (4) / (3)
- (7) Interpolated based on (5)

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

-			
Accident			
Year	TWIA		Ultimate
Ending	Non-Hurricane	Development	Non-Hurricane
9/30	Paid Loss	Factor	Loss
(1)	(2)	(3)	(4)
2014	520,624	1.000	520,624
2015	17,443,601	1.001	17,456,712
2016	10,985,881	1.000	10,988,633
2017	2,709,595	1.004	2,721,261
2018	2,551,684	1.002	2,556,928
2019	4,837,299	1.010	4,884,869
2020	5,567,455	1.015	5,651,316
2021	24,739,860	1.037	25,649,071
2022	11,209,499	1.077	12,074,652
2023	26,600,326	1.268	33,728,902
Total	107,165,824		116,232,968
	• •		* *

- (2) Exhibit 2, Sheet 4a, as of 12/31/23
- (3) Exhibit 2, Sheet 3a
- (4) = (2) * (3)

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

Accident			
Year	TWIA		Ultimate
Ending	Non-Hurricane	Development	Non-Hurricane
9/30	Paid Loss	Factor	Loss
(1)	(2)	(3)	(4)
0044	4 040 000	4.000	4 040 000
2014	1,618,066	1.000	1,618,066
2015	9,461,279	1.001	9,468,390
2016	9,531,194	1.000	9,533,582
2017	7,641,292	1.004	7,674,191
2018	1,114,022	1.002	1,116,311
2019	832,616	1.010	840,804
2020	476,739	1.015	483,920
2021	760,300	1.037	788,242
2022	1,122,593	1.077	1,209,235
2023	1,235,567	1.268	1,566,684
Total	33,793,668		34,299,425

- (2) Exhibit 2, Sheet 4b, as of 12/31/23
- (3) Exhibit 2, Sheet 3a
- (4) = (2) * (3)

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

Accident			
Year	TWIA		Ultimate
Ending	Non-Hurricane	Development	Non-Hurricane
9/30	Paid Loss	Factor	Loss
(1)	(2)	(3)	(4)
2014	2,847,173	1.000	2,847,173
2015	86,469,178	1.001	86,534,172
2016	12,167,890	1.000	12,170,939
2017	21,824,214	1.004	21,918,178
2018	6,765,244	1.002	6,779,148
2019	10,108,613	1.010	10,208,022
2020	21,713,126	1.015	22,040,186
2021	29,253,796	1.037	30,328,898
2022	12,254,832	1.077	13,200,665
2023	25,757,901	1.268	32,660,717
Total	229,161,967		238,688,098

- (2) Exhibit 2, Sheet 4c, as of 12/31/23
- (3) Exhibit 2, Sheet 3a
- (4) = (2) * (3)

Projected Ultimate Non-Hurricane Loss

Tier 2 -- (Territories 1 and 11)

Accident			
Year	TWIA		Ultimate
Ending	Non-Hurricane	Development	Non-Hurricane
9/30	Paid Loss	Factor	Loss
(1)	(2)	(3)	(4)
2014	30,748	1.000	30,748
2015	339,352	1.001	339,607
2016	446,449	1.000	446,561
2017	481,121	1.004	483,192
2018	282,709	1.002	283,290
2019	2,701,499	1.010	2,728,066
2020	449,893	1.015	456,670
2021	2,052,668	1.037	2,128,105
2022	675,864	1.077	728,027
2023	3,764,430	1.268	4,773,253
_			
Total	11,224,733		12,397,519

- (2) Exhibit 2, Sheet 4d, as of 12/31/23
- (3) Exhibit 2, Sheet 3a
- (4) = (2) * (3)

Summary of TWIA Historical Paid Loss as of 12/31/23

Tier 1 -- Territory 8 (Galveston County)

Accident										
Year	Paid Loss Excluding	Expense								
Ending	·									
9/30	Non-Hurricane	Hurricane	Total							
(1)	(2)	(3)	(4)							
2014	520,624	0	520,624							
2015	17,443,601	0	17,443,601							
2016	10,985,881	0	10,985,881							
2017	2,709,595	35,490,978	38,200,573							
2018	2,551,684	0	2,551,684							
2019	4,837,299	0	4,837,299							
2020	5,567,455	30,724	5,598,179							
2021	24,739,860	381,777	25,121,637							
2022	11,209,499	0	11,209,499							
2023	26,600,326	0	26,600,326							
Total	107,165,824	35,903,479	143,069,303							

Notes:

(2),(3) Provided by TDI. Accident years ending 9/30/xx (4) = (2) + (3)

Summary of TWIA Historical Paid Loss as of 12/31/23

Tier 1 -- Territory 9 (Nueces County)

Accident										
Year	Paid Loss Excluding	Expense								
Ending										
9/30	Non-Hurricane	Hurricane	Total							
(1)	(2)	(3)	(4)							
2014	1,618,066	0	1,618,066							
2015	9,461,279	0	9,461,279							
2016	9,531,194	0	9,531,194							
2017	7,641,292	250,889,783	258,531,075							
2018	1,114,022	0	1,114,022							
2019	832,616	0	832,616							
2020	476,739	1,826,271	2,303,010							
2021	760,300	0	760,300							
2022	1,122,593	0	1,122,593							
2023	1,235,567	0	1,235,567							
Total	33,793,668	252,716,054	286,509,722							

Notes:

(2),(3) Provided by TDI. Accident years ending 9/30/xx (4) = (2) + (3)

Summary of TWIA Historical Paid Loss as of 12/31/23

Tier 1 -- Territory 10 (Other Tier 1)

Paid Loss Excluding	<u>Expense</u>							
Non-Hurricane	Hurricane	Total						
(2)	(3)	(4)						
2,847,173	0	2,847,173						
86,469,178	0	86,469,178						
12,167,890	0	12,167,890						
21,824,214	628,015,623	649,839,837						
6,765,244	0	6,765,244						
10,108,613	0	10,108,613						
21,713,126	6,954,608	28,667,734						
29,253,796	17,066,570	46,320,366						
12,254,832	0	12,254,832						
25,757,901	0	25,757,901						
		_						
229,161,967	652,036,801	881,198,768						
	Non-Hurricane (2) 2,847,173 86,469,178 12,167,890 21,824,214 6,765,244 10,108,613 21,713,126 29,253,796 12,254,832 25,757,901	(2) (3) 2,847,173 0 86,469,178 0 12,167,890 0 21,824,214 628,015,623 6,765,244 0 10,108,613 0 21,713,126 6,954,608 29,253,796 17,066,570 12,254,832 0 25,757,901 0						

Notes:

(2) (3) Provided by TDI. Accident years ending 9/30/xx

(4) = (2) + (3)

Summary of TWIA Historical Paid Loss as of 12/31/23

Tier 2 -- (Territories 1 and 11)

Accident								
Year	Paid Loss Excluding	Expense						
Ending								
9/30	Non-Hurricane	Hurricane	Total					
(1)	(2)	(3)	(4)					
2014	30,748	0	30,748					
2015	339,352	0	339,352					
2016	446,449	0	446,449					
2017	481,121	3,459,572	3,940,693					
2018	282,709	0	282,709					
2019	2,701,499	0	2,701,499					
2020	449,893	6,672	456,565					
2021	2,052,668	15,380	2,068,048					
2022	675,864	0	675,864					
2023	3,764,430	0	3,764,430					
Total	11,224,733	3,481,624	14,706,357					

^{(2) (3)} Provided by TDI. Accident years ending 9/30/xx

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

Calculation of Net Trend Factors

	Average					
Year /	Written Premium					
Quarter	At Present Rates					
(1)	(2)					
		(3)	Current Averag	e Earned Date		4/1/2023
2014 / 3	1,762.63	(4)	Current Averag	e Accident Dat	е	4/1/2023
2015 / 3	1,778.86	(5)	Prospective Av	erage Earned /	Accident Date	1/1/2026
2016 / 3	1,781.44	(6)	Premium Trend	l Length		2.750
2017 / 3	1,738.90	(7)	Loss Trend Ler	ngth		2.750
2018 / 3	1,774.13	(8)	Selected Premi	6.7%		
2019 / 3	1,771.01	(9)	Selected Loss	Trend		7.6%
2020 / 3	1,785.14					
2021 / 3	1,847.23					
2022 / 3	2,057.81					
2023 / 3	2,234.21					
Accident						
Year	Current	Current	Prospective	Prospective	Net	
Ending	Premium	Loss	Premium	Loss	Trend	
9/30	Trend	Trend	Trend	Trend	Factor	
(10)	(11)	(12)	(13)	(14)	(15)	
2014	1.268	1.417	1.194	1.223	1.145	
2015	1.256	1.387	1.194	1.223	1.131	
2016	1.254	1.390	1.194	1.223	1.135	
2017	1.285	1.376	1.194	1.223	1.097	
2018	1.259	1.332	1.194	1.223	1.083	
2019	1.262	1.295	1.194	1.223	1.051	
2020	1.252	1.300	1.194	1.223	1.064	
2021	1.209	1.189	1.194	1.223	1.007	
2022	1.086	1.028	1.194	1.223	0.970	
2023	1.000	1.000	1.194	1.223	1.024	

- (2) Average written premium per exposure at present rates from Exhibit 3, Sheet 2, Column (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 2023 / 3
- (12) Exhibit 3, Sheet 3a
- $(13) = [1 + (8)] ^ (6)$
- $(14) = [1 + (9)] ^ (7)$
- (15) = [(12) * (14)] / [(11) * (13)]

Incurred Loss Development Factors
Statewide Industry Extended Coverage Dwelling Incurred Loss

Accident									
Year	Months of Deve	elopment							
Ending									
9/30	15	27	39	51	63	75	87	99	111
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
2014	157,426	183,366	190,278	191,866	192,056	192,342	192,403	192,425	192,453
2015	183,266	204,239	208,541	209,008	209,335	209,189	209,282	209,327	209,327
2016	498,092	556,120	562,298	564,014	564,747	565,099	565,153	565,168	
2017	665,247	791,814	816,792	822,536	825,860	825,686	826,174		
2018	186,500	218,189	220,721	221,225	221,202	221,253			
2019	283,698	318,858	324,431	325,280	325,477				
2020	338,256	390,286	398,056	400,109					
2021	421,926	488,001	492,939						
2022	255,496	298,212	,						
2023	580,738	•							
Accident									
Year	Development Fa	actors							
Ending									
9/30	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)
2014	1.165	1.038	1.008	1.001	1.001	1.000	1.000	1.000	1.000
2015	1.114	1.021	1.002	1.002	0.999	1.000	1.000	1.000	
2016	1.117	1.011	1.003	1.001	1.001	1.000	1.000		
2017	1.190	1.032	1.007	1.004	1.000	1.001			
2018	1.170	1.012	1.002	1.000	1.000				
2019	1.124	1.017	1.003	1.001					
2020	1.154	1.020	1.005						
2021	1.157	1.010							
2022	1.167								
Average	1.151	1.020	1.004	1.001	1.000	1.000	1.000	1.000	1.000
Avg 5 Year	1.154	1.018	1.004	1.001	1.000	1.000	1.000	1.000	
•		4 000	4 005	1.002	1.000	1.000	1.000	1.000	1.000
Prior	1.149	1.026	1.005						
•	1.151	1.026 1.020 1.025	1.005 1.004 1.005	1.001 1.001	1.000	1.000	1.000 1.000	1.000 1.000	1.000 1.000

Notes:

Provided by TICO. Accident years ending 9/30/xx

Premium Trend Analysis

TWIA Residential Written Premium at Present Rates (WPPR)

V	F	10/	01	With a December	Quarterly	Annualized		Exponential Fi	ted Trends	
Year / Quarter	Exposure Written	Written Premium	On-Level Factors	Written Premium at Present Rates	Average WPPR	Average WPPR	All-Year	5-Year	4-Year	3-Year
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
2014 / 2	79,155	111,616,003	1.255	140,128,872	1,770					
2014 / 3	89,874	128,096,479	1.237	158,414,687	1,763					
2014 / 4	60,646	86,711,448	1.221	105,885,837	1,746					
2015 / 1	57,651	85,327,979	1.210	103,236,560	1,791	1,767	1,691			
2015 / 2	82,158	122,581,230	1.196	146,575,670	1,784	1,771	1,698			
2015 / 3	84,402	127,421,809	1.178	150,139,314	1,779	1,776	1,706			
2015 / 4	57,308	87,342,988	1.163	101,596,837	1,773	1,782	1,713			
2016 / 1	54,113	84,557,230	1.153	97,461,471	1,801	1,783	1,721			
2016 / 2	79,991	125,845,764	1.139	143,345,209	1,792	1,786	1,728			
2016 / 3	77,932	123,784,247	1.122	138,831,226	1,781	1,787	1,736			
2016 / 4	51,030	81,959,449	1.108	90,806,567	1,779	1,788	1,743			
2017 / 1	50,991	79,037,984	1.103	87,139,377	1,709	1,770	1,751			
2017 / 2	73,614	114,547,681	1.103	126,288,818	1,716	1,747	1,759			
2017 / 3	68,864	108,614,623	1.103	119,747,622	1,739	1,734	1,766			
2017 / 4	45,960	73,697,340	1.103	81,251,317	1,768	1,731	1,774			
2018 / 1	44,101	71,679,332	1.098	78,682,660	1,784	1,746	1,782			
2018 / 2	63,851	104,163,394	1.085	112,994,275	1,770	1,763	1,790			
2018 / 3	61,408	101,951,681	1.069	108,946,054	1,774	1,774	1,798			
2018 / 4	40,418	68,300,637	1.055	72,071,158	1,783	1,777	1,805			
2019 / 1	39,758	65,036,872	1.050	68,288,716	1,718	1,764	1,813	1,670		
2019 / 2	60,805	99,948,528	1.050	104,945,954	1,726	1,750	1,821	1,691		
2019 / 3	57,547	97,063,357	1.050	101,916,525	1,771	1,749	1,829	1,711		
2019 / 4	38,375	65,697,652	1.050	68,982,535	1,798	1,751	1,837	1,732		
2020 / 1	38,302	63,498,682	1.050	66,673,616	1,741	1,756	1,845	1,753	1,691	
2020 / 2	59,374	98,472,763	1.050	103,396,401	1,741	1,761	1,854	1,774	1,718	
2020 / 3	57,963	98,544,861	1.050	103,472,104	1,785	1,765	1,862	1,796	1,745	
2020 / 4	37,911	65,820,531	1.050	69,111,558	1,823	1,770	1,870	1,817	1,773	
2021 / 1	39,057	66,582,420	1.050	69,911,541	1,790	1,780	1,878	1,840	1,801	1,74
2021 / 2	60,541	103,031,428	1.050	108,182,999	1,787	1,794	1,886	1,862	1,830	1,78
2021 / 3	59,878	105,341,091	1.050	110,608,146	1,847	1,813	1,895	1,884	1,859	1,81
2021 / 4	39,807	72,365,308	1.050	75,983,573	1,909	1,830	1,903	1,907	1,889	1,85
2022 / 1	40,733	76,134,863	1.045	79,562,723	1,953	1,863	1,911	1,930	1,919	1,89
2022 / 2	61,794	116,935,905	1.032	120,677,182	1,953	1,913	1,920	1,954	1,950	1,93
2022 / 3	79,530	161,132,745	1.016	163,657,432	2,058	1,983	1,928	1,978	1,981	1,97
2022 / 4	43,628	92,639,740	1.004	93,000,123	2,132	2,024	1,937	2,002	2,013	2,01
2023 / 1	46,661	98,545,683	1.000	98,545,683	2,112	2,055	1,945	2,026	2,045	2,05
2023 / 2	68,720	145,450,526	1.000	145,450,526	2,117	2,099	1,954	2,050	2,078	2,09
2023 / 3	83,884	187,414,809	1.000	187,414,809	2,234	2,159	1,962	2,075	2,111	2,14
2023 / 4	48,217	110,838,891	1.000	110,838,891	2,299	2,191	1,971	2,100	2,145	2,180
(14) Avers	age Annual Cha	ange					1.8%	4.9%	6.6%	8.59
` '	elation Coefficie	•					51.1%	84.7%	92.6%	98.19
(16) Selec	ted Premium T	rend								6.7%

- (2) Provided by TWIA. Exposures written on inception
- (3) Provided by TWIA. Premium written on inception
- (4) Cumulative effect of annual rate changes
- (5) = (3) * (4)
- (6) = (5) / (2). WPPR = Written Premium at Present Rates
- (7) Four-quarter rolling average written premium
- (8) (11) = (7) Fitted to an exponential distribution
- (14) Fitted average annual change
- (15) Evaluates the predictability of the fitted curve
- (16) Selected based on judgment, with equal weight given to 3-year, 4-year, and 5-year exponential fitted trends

Loss Trend Analysis

Summary of Indices and Calculation of Prospective Loss Costs

Accident				
Year				
Ending	Statewide	Coastal	Modified	Weighted
9/30	Boeckh	Boeckh	CPI	Average
(1)	(2)	(3)	(4)	(5)
(1)	(2)	(3)	(4)	(5)
2014	1.465	1.483	1.220	1.417
2015	1.428	1.448	1.205	1.387
2016	1.437	1.458	1.187	1.390
2017	1.422	1.441	1.179	1.376
2018	1.370	1.386	1.170	1.332
2019	1.338	1.344	1.147	1.295
2020	1.329	1.344	1.169	1.300
2021	1.190	1.206	1.138	1.189
2022	1.028	1.024	1.039	1.028
2023	1.000	1.000	1.000	1.000
Costore to Adjust	For Dragnostiv	a Laca Casta		
Factors to Adjust	For Prospective	e Loss Cosis		
(6) Fitted Trend	8.6%	8.8%	3.8%	7.6%
(7) Cost Factor	1.255	1.261	1.108	1.223

- (2) = Exhibit 3, Sheet 3b trended forward to 9/30/2023
- (3) = Exhibit 3, Sheet 3c trended forward to 9/30/2023
- (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 4/1/2023 to 1/1/2026)

Loss Trend Analysis

Boeckh Residential Construction Index Trend (Statewide)

Ending	Statewide Index	All Years			Fitted T	renus			
	Indox	All Teals		5 Years		4 Years		3 Years	
		Linear	Exponential	Linear	Exponential	Linear	Exponential	Linear	Exponential
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
3/31/2014	2,220.33	2,035.41	2,089.62						
6/30/2014	2,239.69	2,063.09	2,111.14						
9/30/2014	2,258.10	2,090.77	2,132.89						
12/31/2014	2,276.23	2,118.45	2,154.85						
3/31/2015	2,294.25	2,146.13	2,177.05						
6/30/2015	2,308.21	2,173.81	2,199.47						
9/30/2015	2,316.67	2,201.49	2,222.13						
12/31/2015	2,320.56	2,229.17	2,245.02						
3/31/2016	2,317.11	2,256.85	2,268.14						
6/30/2016	2,309.12	2,284.53	2,291.50						
9/30/2016	2,302.02	2,312.21	2,315.11						
12/31/2016	2,297.38	2,339.89	2,338.95						
3/31/2017	2,300.31	2,367.57	2,363.04						
6/30/2017	2,310.73	2,395.25	2,387.38						
9/30/2017	2,327.29	2,422.93	2,411.97						
12/31/2017	2,344.83	2,450.61	2,436.82						
3/31/2018	2,364.81	2,478.29	2,461.92						
6/30/2018	2,388.11	2,505.97	2,487.28						
9/30/2018	2,414.68	2,533.64	2,512.90						
12/31/2018	2,442.30	2,561.32	2,538.78	0.070.04	0.044.04				
3/31/2019	2,462.88	2,589.00	2,564.93	2,273.91	2,311.21				
6/30/2019	2,472.72	2,616.68	2,591.35	2,332.73	2,359.27				
9/30/2019	2,472.27	2,644.36	2,618.04	2,391.55	2,408.34				
12/31/2019	2,470.08	2,672.04	2,645.00	2,450.37	2,458.43	0.004.07	0.405.04		
3/31/2020	2,471.03	2,699.72	2,672.25	2,509.18	2,509.56	2,381.37	2,405.81		
6/30/2020	2,477.92	2,727.40	2,699.77	2,568.00	2,561.75	2,453.65	2,466.80		
9/30/2020	2,489.29	2,755.08	2,727.58	2,626.82	2,615.03	2,525.94	2,529.34		
12/31/2020	2,517.58	2,782.76	2,755.68	2,685.64	2,669.42	2,598.22	2,593.46	0.000.00	0.004.50
3/31/2021	2,554.28	2,810.44	2,784.06	2,744.46	2,724.94	2,670.50	2,659.21	2,660.83	2,664.50
6/30/2021	2,628.51	2,838.12	2,812.74	2,803.28	2,781.61	2,742.78	2,726.62	2,734.92	2,731.65
9/30/2021	2,779.97	2,865.80	2,841.71	2,862.10	2,839.46	2,815.07	2,795.74	2,809.01	2,800.50
12/31/2021	2,895.88	2,893.48	2,870.98	2,920.92	2,898.52	2,887.35	2,866.62	2,883.11	2,871.09
3/31/2022	3,017.67 3,154.56	2,921.16	2,900.55 2,930.43	2,979.74 3,038.56	2,958.80 3,020.33	2,959.63 3,031.92	2,939.29	2,957.20 3,031.29	2,943.45 3,017.64
6/30/2022 9/30/2022	,	2,948.84	2,960.43 2,960.61	,	3,020.33 3,083.15	,	3,013.80	3,105.39	*
12/31/2022	3,219.54 3,296.51	2,976.52 3,004.20	2,960.61	3,097.38 3,156.20	3,063.15 3,147.27	3,104.20 3,176.48	3,090.21 3,168.54	3,105.39	3,093.70 3,171.67
3/31/2023	•	•	,	,	3,147.27 3,212.73	,	,	,	3,251.61
6/30/2023	3,345.12 3,333.79	3,031.88 3,059.56	3,021.91 3,053.04	3,215.02 3,273.84	3,279.55	3,248.77 3,321.05	3,248.87 3,331.23	3,253.57 3,327.67	3,333.57
9/30/2023	3,308.27	3,087.24	3,084.49	3,332.66	3,279.55	3,393.33	•	3,401.76	3,417.59
							3,415.68	-	•
12/31/2023	3,285.96	3,114.92	3,116.26	3,391.48	3,417.38	3,465.62	3,502.27	3,475.85	3,503.73
Annual Trend		3.6%	4.2%	6.9%	8.6%	8.3%	10.5%	8.5%	10.5%
R-Squared		0.773	0.804	0.893	0.898	0.927	0.926	0.865	0.855

^{(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)

Calendar	Texas				Fitted T	rends			
Quarter	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)
3/31/2014	2,228.12	2,036.91	2,095.88						
6/30/2014	2,253.04	2,066.00	2,118.28						
9/30/2014	2,275.40	2,095.08	2,140.91						
12/31/2014	2,297.17	2,124.17	2,163.79						
3/31/2015	2,310.98	2,153.26	2,186.92						
6/30/2015	2,322.93	2,182.35	2,210.29						
9/30/2015	2,330.79	2,211.44	2,233.91						
12/31/2015	2,333.67	2,240.53	2,257.78						
3/31/2016	2,329.10	2,269.62	2,281.91						
6/30/2016	2,321.29	2,298.71	2,306.29						
9/30/2016	2,314.14	2,327.79	2,330.94						
12/31/2016	2,308.79	2,356.88	2,355.85						
3/31/2017	2,311.91	2,385.97	2,381.02						
6/30/2017	2,324.53	2,415.06	2,406.47						
9/30/2017	2,341.58	2,444.15	2,432.18						
12/31/2017	2,360.91	2,473.24	2,458.18						
3/31/2018	2,381.21	2,502.33	2,484.45						
6/30/2018	2,405.09	2,531.42	2,511.00						
9/30/2018	2,434.29	2,560.51	2,537.83						
12/31/2018	2,468.59	2,589.59	2,564.95						
3/31/2019	2,495.17	2,618.68	2,592.36	2,291.80	2,332.32				
6/30/2019	2,509.13	2,647.77	2,620.06	2,353.26	2,382.17				
9/30/2019	2,511.41	2,676.86	2,648.06	2,414.71	2,433.09				
12/31/2019	2,505.03	2,705.95	2,676.36	2,476.16	2,485.09				
3/31/2020	2,503.42	2,735.04	2,704.96	2,537.61	2,538.20	2,393.94	2,421.11		
6/30/2020	2,503.86	2,764.13	2,733.87	2,599.07	2,592.45	2,470.51	2,485.18		
9/30/2020	2,510.09	2,793.22	2,763.08	2,660.52	2,647.86	2,547.08	2,550.95		
12/31/2020	2,532.66	2,822.30	2,792.61	2,721.97	2,704.46	2,623.65	2,618.46		
3/31/2021	2,564.78	2,851.39	2,822.45	2,783.42	2,762.26	2,700.22	2,687.75	2,681.49	2,685.17
6/30/2021	2,647.02	2,880.48	2,852.62	2,844.88	2,821.30	2,776.78	2,758.88	2,761.24	2,757.07
9/30/2021	2,798.64	2,909.57	2,883.10	2,906.33	2,881.60	2,853.35	2,831.89	2,840.99	2,830.89
12/31/2021	2,934.30	2,938.66	2,913.91	2,967.78	2,943.19	2,929.92	2,906.83	2,920.74	2,906.69
3/31/2022	3,069.44	2,967.75	2,945.05	3,029.23	3,006.09	3,006.49	2,983.76	3,000.48	2,984.52
6/30/2022	3,213.84	2,996.84	2,976.52	3,090.68	3,070.34	3,083.06	3,062.72	3,080.23	3,064.43
9/30/2022	3,295.10	3,025.93	3,008.33	3,152.14	3,135.96	3,159.63	3,143.77	3,159.98	3,146.49
12/31/2022	3,370.75	3,055.01	3,040.48	3,213.59	3,202.99	3,236.19	3,226.96	3,239.73	3,230.74
3/31/2023	3,421.75	3,084.10	3,072.97	3,275.04	3,271.45	3,312.76	3,312.36	3,319.47	3,317.24
6/30/2023	3,405.48	3,113.19	3,105.81	3,336.49	3,341.37	3,389.33	3,400.01	3,399.22	3,406.07
9/30/2023	3,374.40	3,142.28	3,139.00	3,397.95	3,412.78	3,465.90	3,489.99	3,478.97	3,497.27
12/31/2023	3,345.77	3,171.37	3,172.55	3,459.40	3,485.72	3,542.47	3,582.35	3,558.72	3,590.91
Annual Trend		3.7%	4.3%	7.1%	8.8%	8.6%	11.0%	9.0%	11.1%
R-Squared		0.769	0.801	0.879	0.884	0.918	0.918	0.856	0.846

^{(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					Fitted Ti			_	
Quarter	Modified	All Years		<u>5 Ye</u>	ars .	<u>4 Ye</u>	ears ears	<u>3 Ye</u>	ears
Ending	CPI	Linear	Exponential	Linear	Exponential	Linear	Exponential	Linear	Exponential
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
9/30/2013	185.82	181.09	181.97						
12/31/2013	186.03	181.99	182.77						
3/31/2014	186.43	182.88	183.57						
6/30/2014	186.87	183.77	184.37						
9/30/2014	187.59	184.66	185.18						
12/31/2014	188.62	185.55	185.99						
3/31/2015	189.46	186.45	186.80						
6/30/2015	189.59	187.34	187.62						
9/30/2015	190.03	188.23	188.44						
12/31/2015	190.50	189.12	189.27						
3/31/2016	190.95	190.01	190.10						
6/30/2016	192.03	190.91	190.93						
9/30/2016	192.82	191.80	191.76						
12/31/2016	193.56	192.69	192.60						
3/31/2017	193.85	193.58	193.44						
6/30/2017	194.07	194.47	194.29						
9/30/2017	194.14	195.37	195.14						
12/31/2017	194.10	196.26	195.99						
3/31/2018	194.71	197.15	196.85						
6/30/2018	195.27	198.04	197.71						
9/30/2018	195.59	198.94	198.58						
12/31/2018	196.20	199.83	199.45						
3/31/2019	196.98	200.72	200.32	189.60	190.32				
6/30/2019	198.12	201.61	201.20	191.57	192.10				
9/30/2019	199.66	202.50	202.08	193.53	193.89				
12/31/2019	200.22	203.40	202.96	195.50	195.71				
3/31/2020	199.62	204.29	203.85	197.47	197.54	190.36	191.00		
6/30/2020	197.58	205.18	204.74	199.44	199.38	193.07	193.46		
9/30/2020	195.82	206.07	205.64	201.40	201.25	195.78	195.96		
12/31/2020	194.70	206.96	206.54	203.37	203.13	198.49	198.49		
3/31/2021	194.20	207.86	207.44	205.34	205.03	201.20	201.05	196.43	196.72
6/30/2021	197.36	208.75	208.35	207.31	206.94	203.90	203.64	199.86	199.91
9/30/2021	201.11	209.64	209.26	209.27	208.88	206.61	206.26	203.28	203.15
12/31/2021	206.60	210.53	210.17	211.24	210.83	209.32	208.92	206.70	206.44
3/31/2022	212.80	211.43	211.09	213.21	212.80	212.03	211.62	210.12	209.79
6/30/2022	217.05	212.32	212.02	215.18	214.79	214.74	214.34	213.55	213.19
9/30/2022	220.34	213.21	212.94	217.14	216.80	217.45	217.11	216.97	216.65
12/31/2022	222.83	214.10	213.88	219.11	218.83	220.16	219.91	220.39	220.16
3/31/2023	225.57	214.99	214.81	221.08	220.87	222.87	222.74	223.81	223.73
6/30/2023	227.25	215.89	215.75	223.05	222.94	225.58	225.62	227.24	227.35
9/30/2023	228.92	216.78	216.70	225.01	225.02	228.28	228.52	230.66	231.04
12/31/2023	229.07	217.67	217.64	226.98	227.12	230.99	231.47	234.08	234.79
Annual Trend		1.6%	1.8%	3.5%	3.8%	4.7%	5.3%	5.8%	6.6%
R-Squared		0.754	0.772	0.794	0.791	0.897	0.894	0.952	0.945
Oqualou		0.734	0.112	0.754	0.751	0.001	0.004	0.002	0.545

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

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

Development of LAE Factor Using TWIA Commercial + Residential Experience

Accident				
Year			Ultimate	
Ending	Ultimate	Ultimate	LAE to	Hurricane
12/31	Loss	LAE	Loss Ratio	Indicator
(1)	(2)	(3)	(4)	(5)
1980	12,911	1,318	0.102 H	
1981	2,512	543	0.216	
1982	796	565	0.710	
1983	148,999	9,127	0.061 H	
1984	999	324	0.324	
1985	512	297	0.580	
1986	881	505	0.573 H	
1987	1,897	1,056	0.557	
1988	1,160	357	0.308	
1989	12,296	3,528	0.287 H	
1990	335	225	0.672	
1991	1,217	729	0.599	
1992	489	554	1.133	
1993	3,375	1,375	0.407	
1994	679	507	0.747	
1995	2,977	903	0.303	
1996	1,166	582	0.499	
1997	2,964	1,343	0.453	
1998	22,401	4,732	0.211	
1999	8,773	2,388	0.272 H	
2000	6,227	1,885	0.303	
2001	24,605	1,880	0.076	
2002	5,167	5,226	1.011	
2003	155,001	5,122	0.033 H	
2004	5,167	1,471	0.285	
2005	154,981	20,235	0.131 H	
2006	4,276	1,110	0.260	
2007	15,745	4,941	0.314 H	
2008	2,583,017	346,615	0.134 H	
2009	10,407	2,219	0.213	
2010	18,005	4,274	0.237	
2011	96,073	15,108	0.157	
2012	67,492	15,833	0.235	
2013	70,835	13,829	0.195	
2014 2015	7,871	6,928	0.880 0.289	
2016	138,836	40,141 15,297	0.541	
2017	28,422 1,410,332	15,387 278,430	0.341 0.197 H	
2018	12,107	6,802	0.562	
2019	17,832	9,429	0.529	
2020	65,043	30,047	0.462 H	
2021	67,732	28,881	0.426 H	
2022	30,224	12,361	0.409	
2023	76,706	22,433	0.292	
All Years Total	5,299,442	921,545	0.174	
Hurricane Years Total	4,635,711	731,137	0.158	
Non-Hurricane Years				
Total	663,731	190,408	0.287	
10 Year	546,398	158,251	0.290	
	•	•		

^{(2) - (3) 2014 - 2023:} from most recent TWIA annual statement; 1980 - 2013: from prior TWIA annual statements

^{(4) = (3) / (2)} (5) "H" indicates hurricane year

Summary of Indicated Hurricane Loss & LAE Ratios

Basis for Hurricane Loss Ratio	Indicated Loss Ratio	LAE Factor	Indicated Loss & LAE Ratio
(1)	(2)	(3)	(4)
Industry Experience	33.0%	6 0.158	38.2%
Hurricane Models			
Verisk	47.8%	6 0.158	3 55.4%
RMS	42.3%	6 0.158	3 49.0%
Impact Forecasting	39.19	6 0.158	3 45.3%
CoreLogic RQE	36.8%	6 0.158	3 42.6%
Average of Models	41.5%	6 0.158	3 48.1%

⁽²⁾ Exhibit 6, Sheet 1 & Exhibit 7, Sheet 1 - Sheet 4

⁽³⁾ Exhibit 4

^{(4) = (2) * [1 + (3)]}

Industry Experience -- Residential Extended Coverage Hurricane Years Only

Accide	ent			
Year	Earned Premium		Hurricane Year	
Ending	g at Current	Number of Hurricanes	Incurred	Per Hurricane
9/30	TWIA Rate Level	During the Year	Loss Ratio	Loss Ratio
	(1)	(2)	(3)	(4)
1968	29,244,163	1	38.2%	28.3%
1970	29,832,151	1	69.7%	59.8%
1971	29,729,368	1	76.5%	66.6%
1980	50,494,372	1	74.8%	64.9%
1983	64,842,240	1	509.4%	499.5%
1986	82,608,316	1	11.1%	1.2%
1989	99,401,872	2	7.6%	0.0%
1999	183,849,422	1	8.3%	0.0%
2003	237,166,897	1	19.5%	9.6%
2005	261,099,035	1	109.3%	99.4%
2007	403,864,589	1	4.9%	0.0%
2008	501,518,052	2	408.6%	199.4%
2017	587,946,262	1	207.8%	197.9%
2020	527,999,009	3	13.1%	1.1%
2021	540,678,351	1	24.6%	14.7%
Simple	e Average Loss Ratio for Hurricane Ye	ars	105.6%	82.8%
(5)	Selected Non-Hurricane Loss Ratio		9.9%	
(6)	Average Hurricane Loss Ratio per H	urricane	82.8%	
(7)	Historical Hurricane Frequency 173-Year (1/1/1851 - 12/31/2023)		0.399	(1 Hurricane Every 2.5 years
(8)	Indicated Hurricane Loss Ratio		33.0%	

- (1) Exhibit 6, Sheet 2. Accident years ending 9/30/xx
- (3) Exhibit 6, Sheet 2. Accident years ending 9/30/xx
- (4) = MAX((3)-(5),0)/(2)
- (5) Exhibit 6, Sheet 2
- (6) = Average of (4)
- (7) Exhibit 8
- (8) = (6) * (7)

Industry Experience -- Residential Extended Coverage Non-Hurricane Loss Ratio

Accident						
∕ear -nding	Corned	Earned	Earned Premium	lnourrad	Inquired	Hurricane
Ending 9/30	Earned Premium	Premium at CMR	at Current TWIA Rate Level	Incurred Losses	Incurred Loss Ratio	Indicator
(1)	(2)	(3)	(4)	(5)	(6)	(7)
()	()	(-)	()	(-)	(-)	()
966		13,011,528		1,178,131	4.0%	
967		13,130,860		663,024	2.2%	
968		12,982,730		11,171,683	38.2% H	
1969		12,499,176		3,218,757	11.4%	
970	40.640.225	13,243,763		20,786,468	69.7% H	
971 972	10,640,335 12,302,040	13,198,133		22,731,206	76.5% H	
973	12,935,382	13,902,740 12,724,690		2,242,093 4,933,261	7.2% 17.2%	
974	12,794,652	11,637,700		2,293,219	8.7%	
975	13,633,616	12,392,309		3,062,897	11.0%	
976	17,088,846	13,884,831	31,276,185	1,522,489	4.9%	
977	23,643,216	17,474,220		972,383	2.5%	
978	28,157,329	19,320,941	43,521,259	1,449,823	3.3%	
1979	32,867,536	21,563,567		3,940,899	8.1%	
1980	32,179,994	22,416,603		0,0.0,000	74.8% H	
1981	30,817,037	29,693,419			3.2%	
1982	28,140,159	32,398,474	72,978,970		2.3%	
1983	28,786,234	, , , , , ,	64,842,240		509.4% H	
1984	20,078,668		45,228,072		14.3%	
1985	30,043,452		67,674,180		6.0%	
1986	36,673,352		82,608,316		11.1% H	
987	41,598,709		93,702,899		2.7%	
988	45,044,392		104,280,007		11.6%	
989	41,745,774		99,401,872		7.6% H	
990	40,384,195		94,692,054		19.1%	
991	46,237,137		94,920,886		91.2%	
1992	44,512,572		112,660,893		6.4%	
1993	50,741,120		177,222,041		7.7%	
1994	57,584,585		177,917,398		4.1%	
1995	60,740,049		166,814,882		6.4%	
996	71,865,572		177,632,754		3.6%	
997	79,154,547		195,649,179		4.5%	
1998	80,238,260		198,129,701		20.5%	ı
1999 2000	71,026,552		183,849,422		8.3% H	l
	75,114,174 74,726,401		195,990,800		4.9%	
2001 2002	86,289,350		171,328,385 182,396,099		6.5% 16.6%	
2003	112,200,741		237,166,897		19.5% H	ı
2004	123,050,217		248,017,395		1.6%	
2005	135,380,924		261,099,035		109.3% H	
2006	154,699,767		297,641,804		1.9%	ı
2007	219,914,305		403,864,589		4.9% H	
2008	289,558,186		501,518,052		408.6% H	
2009	327,305,758		515,061,744		1.8%	
2010	355,219,215		524,962,456		3.6%	
2011	370,875,863		534,562,855		17.5%	
.012	406,981,851		558,681,023		12.7%	
2013	440,952,159		576,566,713		16.5%	
2014	477,983,216		595,350,329		2.1%	
2015	517,579,765		614,090,012		23.4%	
2016	541,982,800		612,650,713		8.1%	
.017	533,284,592		587,946,262		207.8% H	
2018	516,732,311		556,428,278		3.3%	
2019	509,685,524		535,169,800		6.4%	
2020	502,856,199		527,999,009		13.1% H	
2021	514,931,763		540,678,351		24.6% H	
2022	562,949,434		575,799,472		8.5%	
2023	681,526,801		681,526,801		16.8%	
Γotal / Average	9,633,436,628	285,475,684	13,816,770,046		34.8%	
Average of Non-Hur	ricane Years				9.9%	
					9.9%	

Notes: (2), (3) Provided by TDI. Accident years ending 9/30/xx as of 12/31/2023

^{(4) 1983 - 2023:} Sum of Exhibit 6, Sheet 4 - Sheet 7, (4); 1966 - 1982: (3) * 2.3 (5) Provided by TDI. Accident years ending 9/30/xx as of 12/31/2010

^{(6) 1983 - 2023:} Exhibit 6, Sheet 3; 1966 - 1982: (5) / (4)

^{(7) &}quot;H" indicates hurricane year

Industry Experience -- Residential Extended Coverage Summary by Territory

Accident Year		Loss Ratios by T	erritory / Tier	_		
Ending 9/30	Territory 8	Territory 9	Territory 10	Tier 2	Weighted Loss Ratio	Developed Weighted Loss Ratio
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1983	1222.4%	7.2%	165.5%	168.7%	509.4%	509.4%
1984	3.7%	6.8%	24.2%	38.5%	14.3%	14.3%
1985	1.9%	8.3%	8.1%	12.8%	6.0%	6.0%
1986	1.2%	2.8%	21.2%	14.1%	11.1%	11.1%
1987	0.6%	4.1%	3.7%	7.4%	2.7%	2.7%
988	5.5%	6.8%	17.9%	7.2%	11.6%	11.6%
989	6.0%	6.2%	9.1%	16.8%	7.6%	7.6%
990	32.2%	11.6%	11.8%	23.8%	19.1%	19.1%
1991	74.5%	16.4%	131.9%	19.6%	91.2%	91.2%
1992	1.2%	11.8%	8.0%	18.1%	6.4%	6.4%
993	9.3%	8.3%	6.0%	16.1%	7.7%	7.7%
1994	1.9%	4.9%	5.4%	6.4%	4.1%	4.1%
1995	2.7%	8.2%	8.2%	21.5%	6.4%	6.4%
1996	1.4%	5.0%	4.6%	9.5%	3.6%	3.6%
1997	1.8%	4.2%	6.6%	8.1%	4.5%	4.5%
1998	18.6%	10.5%	25.8%	9.9%	20.5%	20.5%
1999	2.0%	17.2%	9.8%	9.9%	8.3%	8.3%
2000	0.8%	2.2%	8.8%	10.0%	4.9%	4.9%
2001	4.8%	6.8%	7.0%	31.2%	6.5%	6.5%
2002	23.2%	5.5%	15.7%	10.1%	16.6%	16.6%
2003	4.9%	7.8%	34.8%	9.8%	19.5%	19.5%
2003	1.2%	1.8%	1.8%	3.7%	1.6%	1.6%
2004	48.7%	2.6%	193.9%	35.4%	109.3%	109.3%
2006	1.0% 2.5%	1.6% 1.5%	2.6%	4.7% 4.7%	1.9% 4.9%	1.9%
2007			7.9%			4.9%
2008	661.5%	2.1%	364.0%	398.5%	408.6%	408.6%
2009	2.8%	0.8%	1.2%	8.9%	1.8%	1.8%
2010	1.1%	5.3%	4.6%	10.4%	3.6%	3.6%
2011	1.0%	26.0%	27.1%	5.7%	17.5%	17.5%
2012	7.9%	27.5%	9.1%	81.0%	12.7%	12.7%
2013	38.8%	8.7%	2.7%	18.7%	16.5%	16.5%
2014	0.5%	2.3%	2.9%	16.8%	2.1%	2.1%
2015	12.1%	11.6%	35.7%	33.4%	23.4%	23.4%
2016	7.9%	12.1%	6.1%	34.4%	8.1%	8.1%
2017	29.5%	326.6%	302.6%	58.1%	207.8%	207.8%
2018	2.4%	2.0%	4.3%	9.9%	3.3%	3.3%
2019	5.2%	1.7%	8.3%	30.9%	6.4%	6.4%
2020	5.4%	4.0%	21.1%	44.6%	13.1%	13.1%
2021	24.4%	2.3%	31.9%	43.2%	24.5%	24.6%
2022	8.9%	2.2%	9.8%	18.8%	8.3%	8.5%
2023	18.0%	2.6%	14.7%	41.5%	14.2%	16.8%
Average	56.1%	14.8%	38.7%	33.5%	40.8%	40.8%
TWIA		2023 Written Premi	um by Territory / Tie	er		
	Territory 8	Territory 9	Territory 10	Tier 2	Total	
(8) Amount (9) % Share	183,156,184 35.0%	86,684,858 16.6%	246,412,664 47.1%	6,678,115 1.3%	522,931,821 100.0%	

- (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) * loss development factors from Exhibit 3, Sheet 1 (8) Provided by TWIA
- (9) = (8) / (8) Total

Industry Experience -- Residential Extended Coverage

Tier 1 -- Territory 8 (Galveston County)

Accident					
Year		Factor	Earned Premium		
Ending	Earned	to TWIA	at Current	Incurred	Incurred
9/30	Premium	Rate Level	TWIA Rate Level	Loss	Loss Ratio
(1)	(2)	(3)	(4)	(5)	(6)
1983	4,317,605	2.253	9,725,593	118,889,570	1222.4%
1984	3,512,853	2.253	7,912,854	292,543	3.7%
1985	6,066,870	2.253	13,665,888	265,705	1.9%
1986	6,846,710	2.253	15,422,512	187,218	1.2%
1987	7,738,740	2.253	17,431,848	111,242	0.6%
1988	8,043,378	2.315	18,620,820	1,026,666	5.5%
1989	8,149,957	2.381	19,406,059	1,163,813	6.0%
1990	7,816,199	2.345	18,327,267	5,908,943	32.2%
1991	8,645,208	2.053	17,747,872	13,225,287	74.5%
1992	5,826,467	2.531	14,746,731	180,484	1.2%
1993	5,825,916	3.493	20,348,008	1,900,088	9.3%
1994	6,996,874	3.090	21,618,035	420,038	1.9%
1995	8,737,576	2.746	23,996,650	644,169	2.7%
1996	11,652,672	2.472	28,802,335	406,004	1.4%
1997	12,573,252	2.472	31,077,765	573,343	1.8%
1998	13,838,930	2.469	34,172,016	6,371,206	18.6%
1999	14,103,814	2.588	36,507,166	742,130	2.0%
2000	15,784,218	2.609	41,184,790	324,948	0.8%
2001	17,776,666	2.293	40,757,315	1,947,817	4.8%
2002	20,514,469	2.114	43,362,931	10,059,284	23.2%
2003	25,868,450	2.114	54,680,031	2,672,918	4.9%
2004	30,357,860	2.016	61,188,656	731,759	1.2%
2005	36,780,457	1.929	70,935,709	34,527,644	48.7%
2006	43,562,211	1.924	83,813,540	813,430	1.0%
2007	59,282,257	1.836	108,869,700	2,757,645	2.5%
2008	73,789,694	1.732	127,804,584	845,467,368	661.5%
2009	81,999,709	1.574	129,038,100	3,581,024	2.8%
2010	89,665,314	1.478	132,512,323	1,451,547	1.1%
2011	93,230,854	1.441	134,378,525	1,329,886	1.0%
2012	99,629,727	1.373	136,765,897	10,756,644	7.9%
2013	107,104,250	1.308	140,044,093	54,338,085	38.8%
2014	114,784,032	1.246	142,968,851	691,708	0.5%
2015	122,782,019	1.186	145,676,506	17,666,484	12.1%
2016	127,007,324	1.130	143,567,522	11,304,310	7.9%
2017	126,002,753	1.103	138,918,035	40,971,158	29.5%
2018	122,707,170	1.077	132,133,675	3,153,959	2.4%
2019	121,980,686	1.050	128,079,720	6,648,705	5.2%
2020	121,816,746	1.050	127,907,583	6,942,693	5.4%
2021	126,003,547	1.050	132,303,724	32,338,822	24.4%
2022	138,162,407	1.023	141,316,140	12,526,177	8.9%
2023	166,969,215	1.000	166,969,215	30,038,690	18.0%
Total	2,224,255,056		3,054,706,584	1,285,351,154	42.1%

⁽²⁾ Provided by TDI. Accident years ending 9/30/xx as of 12/31/2023

^{(3) 1987} and prior judgementally selected; 1988 - 2023 based on TWIA on-level factors

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

⁽⁵⁾ Provided by TDI. Accident years ending 9/30/xx as of 12/31/2023; 2008 IKE 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)

Accident		_			
Year		Factor	Earned Premium		
Ending	Earned	to TWIA	at Current	Incurred	Incurred
9/30	Premium	Rate Level	TWIA Rate Level	Loss	Loss Ratio
(1)	(2)	(3)	(4)	(5)	(6)
1983	2,331,938	2.253	5,252,792	377,010	7.2%
1984	1,632,317	2.253	3,676,865	249,086	6.8%
1985	2,505,564	2.253	5,643,892	467,721	8.3%
1986	2,977,992	2.253	6,708,056	189,449	2.8%
1987	3,639,667	2.253	8,198,508	335,212	4.1%
1988	3,971,251	2.315	9,193,644	626,491	6.8%
1989	3,702,536	2.381	8,816,198	550,215	6.2%
1990	3,519,306	2.345	8,251,998	955,271	11.6%
1991	4,065,190	2.053	8,345,487	1,367,254	16.4%
1992	3,907,712	2.531	9,890,381	1,170,578	11.8%
1993	4,552,395	3.493	15,900,017	1,312,776	8.3%
1994	5,710,806	3.090	17,644,510	856,369	4.9%
1995	6,908,552	2.746	18,973,465	1,552,987	8.2%
1996	8,568,168	2.472	21,178,253	1,061,115	5.0%
1997	8,425,344	2.472	20,825,231	882,561	4.2%
1998	8,803,621	2.469	21,738,493	2,289,890	10.5%
1999	8,465,256	2.588	21,911,980	3,778,386	17.2%
2000	8,437,094	2.609	22,014,391	485,581	2.2%
2001	8,894,552	2.293	20,392,915	1,394,445	6.8%
2002	10,534,795	2.114	22,268,165	1,227,528	5.5%
2003	13,881,847	2.114	29,343,073	2,295,803	7.8%
2004	15,458,506	2.016	31,157,835	569,877	
2005	17,471,646	1.929	33,696,253	872,451	2.6%
2006	19,888,512	1.924	38,265,427	621,501	1.6%
2007	29,704,042	1.836	54,550,388	833,793	1.5%
2008	40,565,108	1.732	70,259,226	1,468,028	2.1%
2009	46,363,445	1.574	72,959,416	615,469	0.8%
2010	51,529,115	1.478	76,152,555	4,059,049	5.3%
2011	52,931,755	1.441	76,293,318	19,845,538	26.0%
2012	56,334,273	1.373	77,332,415	21,291,155	27.5%
2013	60,101,696	1.308	78,585,934	6,825,640	8.7%
2014	65,642,137	1.246	81,760,335	1,914,066	2.3%
2015	72,124,134	1.186	85,572,724	9,924,249	11.6%
2016	76,436,084	1.130	86,402,412	10,445,691	12.1%
2017	77,008,517	1.103	84,901,890	277,308,178	326.6%
2018	77,031,486	1.077	82,949,133	1,671,270	2.0%
2019	76,506,580	1.050	80,331,909	1,370,278	1.7%
2020	73,290,165	1.050		3,057,424	4.0%
2021	71,903,454	1.050	75,498,627	1,760,966	2.3%
2022	74,944,777			1,690,303	
2023	87,065,823			2,251,737	
Total	1,267,737,157		1,733,514,093	391,822,391	22.6%

⁽²⁾ Provided by TDI. Accident years ending 9/30/xx as of 12/31/2023

^{(3) 1987} and prior judgementally selected; 1988 - 2023 based on TWIA on-level factors

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

⁽⁵⁾ Provided by TDI. Accident years ending 9/30/xx as of 12/31/2023

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

Industry Experience -- Residential Extended Coverage

Tier 1 -- Territory 10 (Other Tier 1)

Accident					
Year		Factor	Earned Premium		
Ending	Earned	to TWIA	at Current	Incurred	Incurred
9/30	Premium	Rate Level	TWIA Rate Level	Loss	Loss Ratio
(1)	(2)	(3)	(4)	(5)	(6)
1983	5,888,781	2.253	13,264,735	21,953,626	165.5%
1984	3,924,651	2.253	8,840,447	2,135,063	24.2%
1985	5,808,825	2.253	13,084,631	1,055,065	8.1%
1986	6,993,722	2.253	15,753,663	3,338,312	21.2%
1987	7,677,374	2.253	17,293,618	634,637	3.7%
1988	8,284,768	2.315	19,179,650	3,434,130	17.9%
1989	7,733,295	2.381	18,413,935	1,670,422	9.1%
1990	7,568,146	2.345	17,745,638	2,095,151	11.8%
1991	8,287,605	2.053	17,013,744	22,444,044	131.9%
1992	8,059,407	2.531	20,398,281	1,625,108	8.0%
1993	8,448,603	3.493	29,508,193	1,776,572	6.0%
1994	9,743,293	3.090	30,103,566	1,637,915	5.4%
1995	10,745,995	2.746	29,512,519	2,416,675	8.2%
1996	13,294,968	2.472	32,861,658	1,520,229	4.6%
1997	15,708,220	2.472	38,826,580	2,569,544	6.6%
1998	16,168,136	2.469	39,923,448	10,312,506	25.8%
1999	14,452,667	2.588	37,410,157	3,655,754	9.8%
2000	14,453,385	2.609	37,712,329	3,332,580	8.8%
2001	15,173,521	2.293	34,788,975	2,426,814	7.0%
2002	17,843,905	2.114	37,717,965	5,925,066	15.7%
2003	23,423,208	2.114	49,511,345	17,213,668	34.8%
2004	27,306,202	2.016	55,037,799	990,613	1.8%
2005	31,012,304	1.929	59,811,105	115,989,785	193.9%
2006	36,545,725	1.924	70,313,845	1,842,548	2.6%
2007	69,945,120	1.836	128,451,658	10,105,722	7.9%
2008	110,187,567	1.732	190,846,112	694,640,836	364.0%
2009	128,275,387	1.574	201,859,402	2,522,159	1.2%
2010	143,236,007	1.478	211,682,034	9,656,553	4.6%
2011	151,387,931	1.441	218,203,374	59,070,022	27.1%
2012	170,159,709	1.373	233,585,355	21,200,719	9.1%
2013	183,495,510	1.308	239,929,437	6,485,250	2.7%
2014	197,640,983	1.246	246,171,037	7,234,983	2.9%
2015	212,320,998	1.186	251,911,325	90,056,094	35.7%
2016	218,795,204	1.130	247,323,416	15,021,245	6.1%
2017	212,533,686	1.103	234,318,389	709,120,869	302.6%
2018	201,509,514	1.077	216,989,706	9,319,007	4.3%
2019	194,433,202	1.050	204,154,862	16,886,746	8.3%
2020	186,265,421	1.050	195,578,692	41,308,139	21.1%
2021	186,593,305	1.050	195,922,970	62,523,768	31.9%
2022	199,153,387	1.023	203,699,317	19,980,740	9.8%
2023	243,081,044	1.000	243,081,044	35,652,679	14.7%
Total	3,333,560,682		4,407,735,955	2,042,781,358	46.3%

⁽²⁾ Provided by TDI. Accident years ending 9/30/xx as of 12/31/2023

^{(3) 1987} and prior judgementally selected; 1988 - 2023 based on TWIA on-level factors

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

⁽⁵⁾ Provided by TDI. Accident years ending 9/30/xx as of 12/31/2023

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

Industry Experience -- Residential Extended Coverage

Tier 2 -- (Territories 1 and 11)

Accident					
Year		Factor	Earned Premium		
Ending	Earned	to TWIA	at Current	Incurred	Incurred
9/30	Premium	Rate Level	TWIA Rate Level	Loss	Loss Ratio
(1)	(2)	(3)	(4)	(5)	(6)
1983	16,247,909	2.253	36,599,121	61,752,490	168.7%
1984	11,008,847	2.253	24,797,906	9,535,536	38.5%
1985	15,662,193	2.253	35,279,770	4,532,749	12.8%
1986	19,854,927	2.253	44,724,085	6,306,903	14.1%
1987	22,542,928	2.253	50,778,924	3,739,010	7.4%
1988	24,744,994	2.315	57,285,893	4,139,098	7.2%
1989	22,159,987	2.381	52,765,680	8,884,751	16.8%
1990	21,480,544	2.345	50,367,151	11,997,188	23.8%
1991	25,239,134	2.053	51,813,783	10,178,608	19.6%
1992	26,718,987	2.531	67,625,500	12,221,034	18.1%
1993	31,914,206	3.493	111,465,824	17,910,197	16.1%
1994	35,133,612	3.090	108,551,287	6,968,697	6.4%
1995	34,347,927	2.746	94,332,248	20,240,594	21.5%
1996	38,349,764	2.472	94,790,509	9,046,495	9.5%
1997	42,447,731	2.472	104,919,603	8,514,675	8.1%
1998	41,427,572	2.469	102,295,744	10,127,907	9.9%
1999	34,004,815	2.588	88,020,119	8,680,187	9.9%
2000	36,439,477	2.609	95,079,289	9,518,422	10.0%
2001	32,881,662	2.293	75,389,180	23,547,404	31.2%
2002	37,396,181	2.114	79,047,038	7,950,367	10.1%
2003	49,027,236	2.114	103,632,448	10,177,909	9.8%
2004	49,927,649	2.016	100,633,105	3,738,542	3.7%
2005	50,116,517	1.929	96,655,968	34,201,898	35.4%
2006	54,703,319	1.924	105,248,992	4,909,932	4.7%
2007	60,982,886	1.836	111,992,843	5,242,698	4.7%
2008	65,015,817	1.732	112,608,130	448,708,417	398.5%
2009	70,667,217	1.574	111,204,827	9,952,501	8.9%
2010	70,788,779	1.478	104,615,544	10,829,031	10.4%
2011	73,325,323	1.441	105,687,638	5,993,038	5.7%
2012	80,858,142	1.373	110,997,356	89,893,832	81.0%
2013	90,250,703	1.308	118,007,249	22,061,511	18.7%
2014	99,916,064	1.246	124,450,105	20,930,082	16.8%
2015 2016	110,352,614	1.186	130,929,458	43,780,541	33.4% 34.4%
	119,744,188	1.130	135,357,362	46,503,584	58.1%
2017	117,739,636	1.103	129,807,949	75,399,831	9.9%
2018	115,484,141	1.077	124,355,765	12,323,854	
2019 2020	116,765,056	1.050 1.050	122,603,309	37,912,359 56,014,336	30.9% 44.6%
2020	121,483,867 130,431,457	1.050	127,558,060 136,953,030	56,914,326 59,218,023	44.6% 43.2%
2021	150,431,457	1.023	154,128,528	29,043,816	43.2% 18.8%
2022	184,410,719	1.023	184,410,719	76,562,111	41.5%
2023	104,410,719	1.000	104,410,719	10,002,111	41.5%
Total	2,552,683,589		3,977,767,036	1,360,090,148	34.2%
	•			•	

⁽²⁾ Provided by TDI. Accident years ending 9/30/xx as of 12/31/2023

^{(3) 1987} and prior judgementally selected; 1988 - 2023 based on TWIA on-level factors

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

⁽⁵⁾ Provided by TDI. Accident years ending 9/30/xx as of 12/31/2023

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

Hurricane Loss Ratio -- Verisk (AIR) Model

Model Version: Verisk Touchstone 10.0 Tropical Cyclone (TC) and Severe Thunderstorm (ST)

	TWIA Insured Values (000s)	Modeled	Expected Annual
County	as of 11/30/23	Loss Cost	Hurricane Loss
(1)	(2)	(3)	(4)
Aransas	3,019,446	2.362	7,130,987
Brazoria	18,080,728	1.745	31,545,775
Calhoun	1,381,279	2.980	4,116,508
Cameron	2,885,907	1.972	5,691,480
Chambers	3,031,783	1.506	4,564,387
Galveston	32,274,036	3.671	118,466,683
Harris	1,721,743	4.100	7,058,324
Jefferson	9,595,251	2.005	19,237,055
Kenedy	6,832	1.186	8,105
Kleberg	259,620	0.937	243,330
Matagorda	1,683,218	2.523	4,247,464
Nueces	14,858,281	2.651	39,395,490
Refugio	120,043	1.655	198,697
San Patricio	2,873,434	2.085	5,990,663
Willacy	110,591	2.208	244,158
Total	91,902,192	2.700	248,139,105
(5) In-Force Pre	mium as of 11/30/23 a	t Present Rates	519,593,434
(6) Indicated Hu	47.8%		

- (2) Provided by TWIA and geo-coded by Verisk
- (3) = (4) / (2)
- (4) Provided by Verisk using Verisk Touchstone v10 (versus Verisk Touchstone v9 for prior year results)
- (5) Provided by TWIA
- (6) = (4) Total / (5)

Hurricane Loss Ratio -- RMS Model

Model Version: RMS RiskLink 23.0 Windstorm/Hurricane and Convective Storm (WS/CS)

County	TWIA Insured Values (000s) as of 11/30/23	Modeled Loss Cost	Expected Annual Hurricane Loss
(1)	(2)	(3)	(4)
(1)	(2)	(3)	(4)
Aransas	3,019,446	2.363	7,135,048
Brazoria	18,080,728	1.705	30,834,292
Calhoun	1,381,279	3.612	4,989,208
Cameron	2,885,907	2.300	6,637,744
Chambers	3,031,783	1.556	4,717,165
Galveston	32,274,036	2.941	94,928,484
Harris	1,721,743	2.969	5,111,354
Jefferson	9,595,251	1.973	18,934,837
Kenedy	6,832	1.999	13,657
Kleberg	259,620	1.488	386,420
Matagorda	1,683,218	2.848	4,793,423
Nueces	14,858,281	2.303	34,211,677
Refugio	120,043	2.299	275,977
San Patricio	2,873,434	2.189	6,289,812
Willacy	110,591	2.648	292,800
Total	91,902,192	2.389	219,551,899
(5) In-Force Pre (6) Indicated Hu	519,593,434 42.3%		

- (2) Provided by TWIA and geo-coded by RMS
- (3) = (4) / (2)
- (4) Provided by RMS using RMS RiskLink v23 (versus RMS RiskLink v21 for prior year results)
- (5) Provided by TWIA
- (6) = (4) Total / (5)

Hurricane Loss Ratio -- Impact Forecasting Model

Model Version: Impact Forecasting ELEMENTS 18.0 Atlantic Tropical Cyclone and Severe Convective Storm

	TWIA Insured Values (000s)	Modeled	Expected Annual
County	as of 11/30/23	Loss Cost	Hurricane Loss
(1)	(2)	(3)	(4)
Aransas	3,019,446	3.159	9,537,972
Brazoria	18,080,728	2.017	36,462,163
Calhoun	1,381,279	3.821	5,278,236
Cameron	2,885,907	2.089	6,030,006
Chambers	3,031,783	1.729	5,240,955
Galveston	32,274,036	2.136	68,952,922
Harris	1,721,743	2.019	3,476,176
Jefferson	9,595,251	1.699	16,305,713
Kenedy	6,832	3.199	21,857
Kleberg	259,620	2.268	588,693
Matagorda	1,683,218	3.376	5,682,960
Nueces	14,858,281	2.403	35,711,619
Refugio	120,043	3.593	431,262
San Patricio	2,873,434	3.107	8,929,010
Willacy	110,591	4.024	445,071
Total	91,902,192	2.210	203,094,616
(5) In-Force Pre (6) Indicated Hu	519,593,434 39.1%		

- (2) Provided by TWIA and geo-coded by Impact Forecasting
- (3) = (4) / (2)
- (4) Provided by Impact Forecasting using Impact Forecasting v18 (versus Impact Forecasting v15 for prior year results)
- (5) Provided by TWIA
- (6) = (4) Total / (5)

Hurricane Loss Ratio -- CoreLogic RQE Model

Model Version: CoreLogic Risk Quantification & Engineering (RQE) v23 North Atlantic Hurricane (HU) and Severe Convective Storm (SCS)

	TWIA Insured Values (000s)	Modeled	Expected Annual
County	as of 11/30/23	Loss Cost	Hurricane Loss
(1)	(2)	(3)	(4)
Aransas	3,019,446	1.977	5,969,619
Brazoria	18,080,728	1.664	30,079,143
Calhoun	1,381,279	3.145	4,343,879
Cameron	2,885,907	1.474	4,254,515
Chambers	3,031,783	1.574	4,773,163
Galveston	32,274,036	2.327	75,108,889
Harris	1,721,743	3.287	5,659,587
Jefferson	9,595,251	2.652	25,448,796
Kenedy	6,832	1.788	12,216
Kleberg	259,620	1.124	291,691
Matagorda	1,683,218	2.524	4,248,231
Nueces	14,858,281	1.712	25,431,969
Refugio	120,043	2.142	257,093
San Patricio	2,873,434	1.866	5,361,063
Willacy	110,591	2.025	223,949
Total	91,902,192	2.083	191,463,801
(5) In-Force Pre (6) Indicated Hu	519,593,434 36.8%		

- (2) Provided by TWIA and geo-coded by CoreLogic RQE
- (3) = (4) / (2)
- (4) Provided by CoreLogic RQE using CoreLogic RQE v23 (versus CoreLogic RQE v21 for prior year results)
- (5) Provided by TWIA
- (6) = (4) Total / (5)

Texas Hurricanes 1850 - 2023

<u>Landfall</u> Year	Month	Name		<u>Landfall</u> Year	Month	Name
	(1)	(2)			(1)	(2)
'	.')	(2)			(1)	(2)
1851	Jun			1933	Sep	
1854	Jun			1934	Jul	
1854	Sep	"Matagorda"		1936	Jun	
1865	Sep	"Sabine River-Lake Calcasie	ı"	1940	Aug	
1866	Jul		-	1941	Sep	
1867	Oct	"Galveston"		1942	Aug	
1869	Aug	"Lower Texas Coast"		1942	Aug	
1875	Sep	201101 1011110 001101		1943	Jul	
1879	Aug			1945	Aug	
1880	Aug			1947	Aug	
1882	Sep			1949	Oct	
1886	Jun			1957	Jun	Audrey
1886	Aug	"Indianola"		1959	Jul	Debra
1886	Sep			1961	Sep	Carla
1886	Oct			1963	Sep	Cindy
1887	Sep			1967	Sep	Beulah
1888	Jun			1970	Aug	Celia
1891	Jul			1971	Sep	Fern
1895	Aug			1980	Aug	Allen
1897	Sep			1983	Aug	Alicia
1900	Sep	"Galveston"		1986	Jun	Bonnie
1909	Jun	Carvocion		1989	Aug	Chantal
1909	Jul	"Velasco"		1989	Oct	Jerry
1909	Aug			1999	Aug	Bret
1910	Sep			2003	Jul	Claudette
1912	Oct			2005	Sep	Rita
1913	Jun			2007	Sep	Humberto
1915	Aug	"Galveston"		2008	Jul	Dolly
1916	Aug			2008	Sep	lke
1918	Aug			2017	Aug	Harvey
1919	Sep			2020	Jul	Hanna
1921	Jun			2020	Aug	Laura
1929	Jun			2020	Oct	Delta
1932	Aug	"Freeport"		2021	Sep	Nicholas
1933	July				COP	
1000	ouly					
Frequenc	У	Date Period Hur	ricanes	Period /	Annual Fre	quency
173-Year		1/1/1851 - 12/31/2023	69	173		0.399

Notes:

(1), (2) from NOAA Technical Memorandum NWS-NHC-6, updated with actual experience through 2023

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

Accident				
Year		Factor	Earned Premium	
Ending	TWIA	to Current	at Current	
9/30	Earned Premium	Rate Level	Rate Level	
(1)	(2)	(3)	(4)	
2014	113,521,698	1.246	141,396,555	
2015	121,221,015	1.186	143,824,430	
2016	123,942,872	1.130	140,103,503	
2017	120,650,271	1.103	133,016,924	
2018	112,717,188	1.077	121,376,251	
2019	109,182,096	1.050	114,641,201	
2020	108,043,628	1.050	113,445,809	
2021	112,324,499	1.050	117,940,724	
2022	126,572,677	1.023	129,461,860	
2023	159,933,055	1.000	159,933,055	
		•		
Total	1,208,108,999		1,315,140,312	

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

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

Accident				
Year			Factor	Earned Premium
Ending		TWIA	to Current	at Current
9/30		Earned Premium	Rate Level	Rate Level
(1)	(2)	(3)	(4)
2014		62,828,148	1.246	78,255,381
2015		68,716,114	1.186	81,529,229
2016		71,234,774	1.130	80,522,915
2017		69,126,281	1.103	76,211,725
2018		63,899,693	1.077	68,808,541
2019		59,870,593	1.050	62,864,123
2020		57,494,711	1.050	60,369,447
2021		57,000,700	1.050	59,850,735
2022		61,194,933	1.023	62,591,785
2023		76,445,090	1.000	76,445,090
Total		647,811,037		707,448,971

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

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

Accident				
Year		Factor	Earned Premium	
Ending	TWIA	to Current	at Current	
9/30	Earned Premium	Rate Level	Rate Level	
(1	(2)	(3)	(4)	
2014	187,152,484	1.246	233,107,124	
2015	200,595,693	1.186	237,999,667	
2016	200,978,477	1.130	227,183,607	
2017	188,554,673	1.103	207,881,527	
2018	166,829,909	1.077	179,645,974	
2019	151,980,115	1.050	159,579,121	
2020	141,633,299	1.050	148,714,964	
2021	140,039,840	1.050	147,041,832	
2022	153,747,607	1.023	157,257,092	
2023	211,507,410	1.000	211,507,410	
Total	1,743,019,507		1,909,918,318	

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

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

Accident				
Year		Factor	Earned Premium	
Ending	TWIA	to Current	at Current	
9/30	Earned Premium	Rate Level	Rate Level	
(1)	(2)	(3)	(4)	
2014	3,920,276	1.246	4,882,886	
2015	4,202,726	1.186	4,986,385	
2016	4,436,708	1.130	5,015,200	
2017	4,435,808	1.103	4,890,478	
2018	4,301,050	1.077	4,631,462	
2019	4,296,061	1.050	4,510,864	
2020	4,367,811	1.050	4,586,202	
2021	4,523,216	1.050	4,749,377	
2022	4,935,851	1.023	5,048,518	
2023	5,922,961	1.000	5,922,961	
Total	45,342,468		49,224,333	

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

Calculation of TWIA Earned Premium at Present Rate Level

Accident			
Year	Earned Premium Factor		Earned Premium
Ending	at	at to Current at Currer	
9/30	Manual Rates	Rate Level	Rate Level
(1)	(2)	(3)	(4)
2008	219,412,771	1.732	380,025,401
2009	250,693,788	1.574	394,502,010
2010	273,154,916	1.478	403,683,330
2011	292,239,327	1.441	421,219,887
2012	323,323,869	1.373	443,840,208
2013	346,955,938	1.308	453,662,015
2014	372,022,089	1.246	463,370,816
2015	403,803,905	1.186	479,098,995
2016	405,934,590	1.130	458,863,484
2017	376,421,384	1.103	415,004,576
2018	341,468,875	1.077	367,700,905
2019	322,259,386	1.050	338,372,355
2020	311,420,426	1.050	326,991,447
2021	319,441,102	1.050	335,413,157
2022	369,077,295	1.023	377,501,954
2023	477,497,545	1.000	477,497,545
Total	5,405,127,207		6,536,748,087

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

Expenses and Variable Permissible Loss & LAE Ratios

					5	
Exp	ense Category	2021	2022	2023	Projected 2024	Selected
(1)	Direct Written Premium	395,112,773	518,299,032	653,043,231	815,861,000	
(2)	Direct Earned Premium	378,504,197	443,490,204	589,353,024	743,860,000	
(3)	Commission \$ Amount	62 161 020	02 054 200	104 202 209	120 529 000	
	% of DWP	63,161,029 16.0%	82,854,389 16.0%	104,392,398 16.0%	130,538,000 16.0%	16.0%
(4)	Other Acquisition					
(.)	\$ Amount	0	0	0	0	
	% of DWP	0.0%	0.0%	0.0%	0.0%	0.0%
(5)	General Expense	00.070.000	05 570 500	00 004 004	40.040.000	
	Unadjusted \$ Amount	29,979,903	35,578,580	36,234,634	40,243,000	
	Adjustments					
	Contribution to Statutory Fund	0	0	0	0	
	Adjusted \$ Amount % of DWP	29,979,903	35,578,580	36,234,634	40,243,000	F 00/
	% of DWP	7.6%	6.9%	5.5%	4.9%	5.2%
(6)	Taxes, Licenses & Fees \$ Amount	7,364,210	9,499,183	11,379,394	14,889,000	
	% of DWP	1.9%	1.8%	1.7%	1.8%	1.8%
(7)	Reinsurance Expense					44.0%
` ,	·					
(8)	(8) Outstanding Class 1 Public Security Repayment					0.0%
(9)	9) Total Fixed Expenses					49.2%
(10)	10) Total Variable Expenses					
(11)	(11) CRTF Contribution & UW Contingency & Uncertainty					5.0%
(12)	Permissible Loss, LAE and Fixed Expense Ra	tio				77.2%

- (1) (6) From TWIA's Statutory Annual Statements and Insurance Expense Exhibits. 2024 figures are projected (7) Exhibit 10, Sheet 2

- (7) EXHIBIT 10, Sheet 2
 (8) Outstanding principal paid off in 2023
 (9) = (5) + (7) + (8)
 (10) = (3) + (4) + (6)
 (11) CRTF contribution selected judgmentally
 (12) = 100% (10) (11)

Development of Reinsurer Expense Using Average of Verisk and RMS Hurricane Models

		Combined	Residential	Commercial
(1)	2024 - 2025 Reinsurance Premium	370,310,168	288,590,979	81,719,188
(2a)	Average Annual Loss by Reinsurance Layer (Verisk)			
,	100% of \$4050M XS \$2450M	74,647,712	58,850,299	15,797,414
	Total	74,647,712	58,850,299	15,797,414
(2b)	Average Annual Loss by Reinsurance Layer (RMS)			
	100% of \$4050M XS \$2450M	58,200,781	44,681,498	13,519,283
	Total	58,200,781	44,681,498	13,519,283
(2c)	Selected Total Average Annual Loss	66,424,247	51,765,898	14,658,349
(3)	Net Cost of Reinsurance	293,390,890	228,646,069	64,744,821
(4)	TWIA In-Force Premium as of 11/30/23 at Present Rates	648,004,892	519,593,434	128,411,458
(5)	Indicated Reinsurance Expense %	45.3%	44.0%	50.4%

- (1) From TWIA reinsurance contract effective 6/1/2024 through 5/31/2025
- (2a) Provided by Aon, based on Verisk model using TWIA exposures as of 11/30/2023
- (2b) Provided by Aon, based on RMS model using TWIA exposures as of 11/30/2023
- (2c) Selected to be equal to the average of the RMS and Verisk catastrophe models
- (3) = (1) (2c) * 1.158. 1.158 is the LAE loading.
- (4) Exhibit 7, Sheet 1
- (5) = (3) / (4)

Reconciliation of Premium Data to Annual Statement

	TWIA Provided W	/ritten Premium		Annual	
Calendar				Statement Gross	
Year	Commercial	Residential	Total	Written Premium	Difference
(1)	(2)	(3)	(4)	(5)	(6)
1004	40.070.077	45 750 000	20, 424, 007	00 540 504	(70.404)
1994 1995	10,672,677 12,865,905	15,758,330 19,259,265	26,431,007 32,125,170	26,510,501 32,419,287	(79,494)
1996	15.640.660	24,504,127	40.144.787	40.358.575	(294,117) (213,788)
1997	16,536,186	25,783,455	42,319,641	42,462,844	(213,766)
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
2020	60,327,052	310,312,753	370,639,805	369,600,488	1,039,317
2021	63,366,551	331,736,850	395,103,401	395,112,773	(9,372)
2022	88,784,127	429,663,068	518,447,195	518,299,032	148,163
2023	130,162,738	522,931,821	653,094,559	653,043,231	51,328
Total	1,897,102,288	6,361,008,717	8,258,111,005	8,253,454,969	4,656,036

^{(2), (3)} Provided by TWIA, as of 12/31/2023

^{(4) = (2) + (3)} (5) Based on TWIA Annual Statements

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