

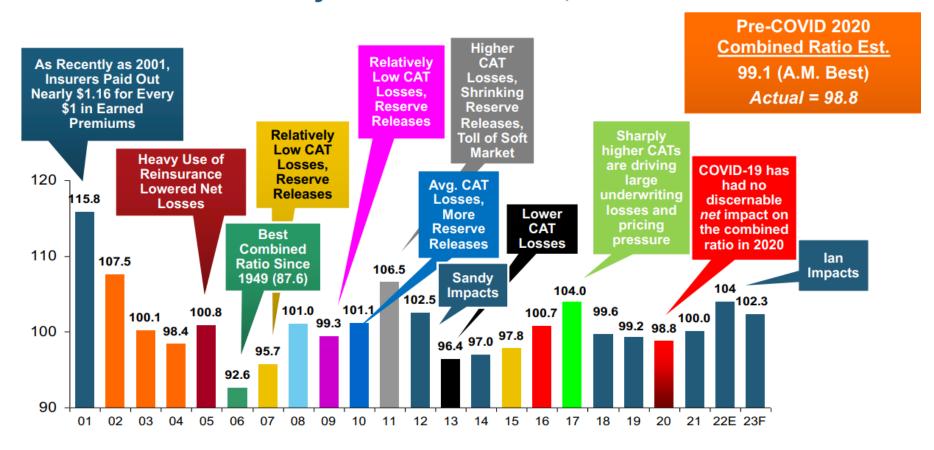
NEW JERSEY COUNTIES EXCESS JOINT INSURANCE FUND



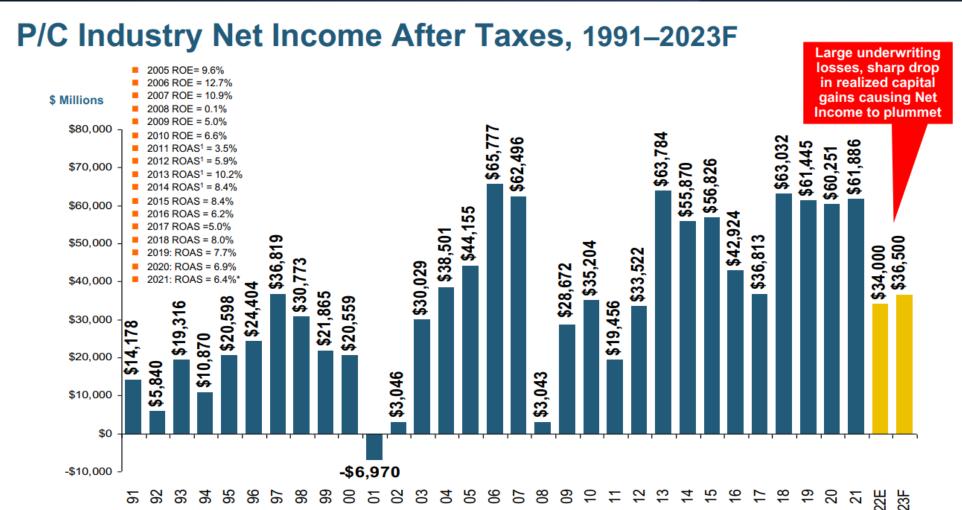
What?

What is happening?

P/C Insurance Industry Combined Ratio, 2001–2023F*

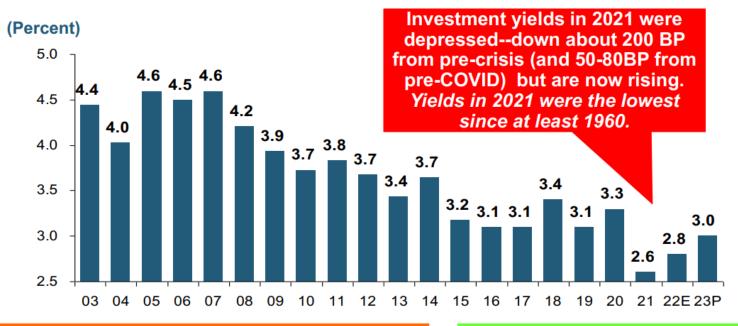


^{*}Excludes Mortgage & Financial Guaranty insurers 2008–2014. Sources: A.M. Best, ISO (2014-2024F).



^{*}ROE figures are GAAP; ¹Return on avg. surplus. Excludes Mortgage & Financial Guaranty insurers for years (2009-2014). Sources: A.M. Best, ISO, APCIA.

Net Investment Yield on Property/Casualty Insurance Invested Assets, 2007–2023P

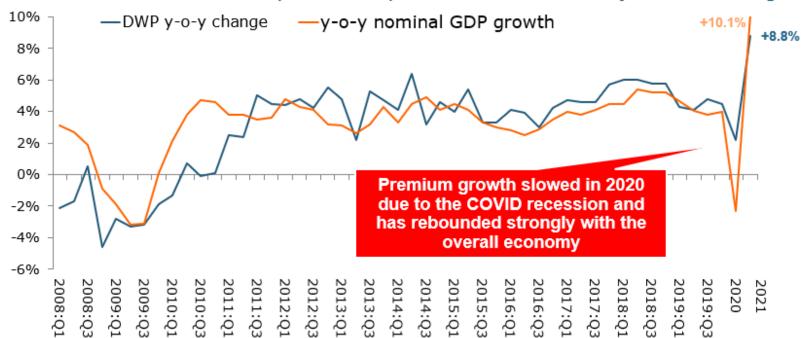


The yield on invested assets remains depressed relative to pre-financial crisis and pre-COVID yields. Fed rate hikes in 2022-23 are lifting yields and investment income.

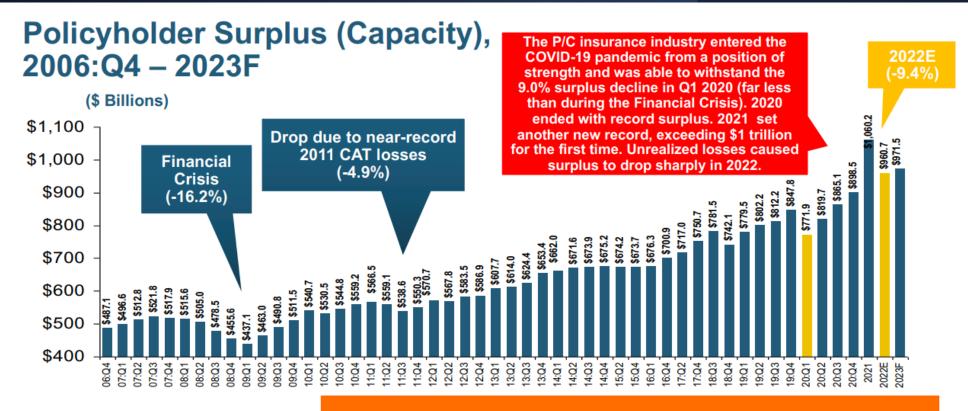
Average: 1960-2019 = 4.9% Low: 2.8% (1961) High: 8.2% (1984/85)

The Economy Drives P/C Insurance Industry Premiums: 2006:Q1–2021*





Direct written premiums track nominal GDP fairly tightly over time, suggesting the P/C insurance industry's growth prospects inextricably linked to economic performance.

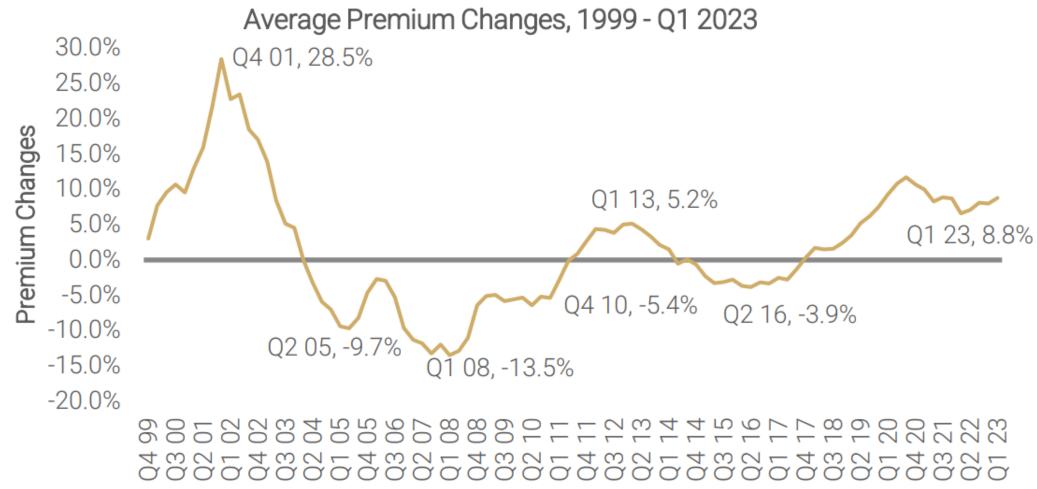


Policyholder Surplus is the industry's financial cushion against large insured events, periods of economic stress and financial market volatility. It is also a source of capital to underwrite new risks.

04 US composite insurance pricing change

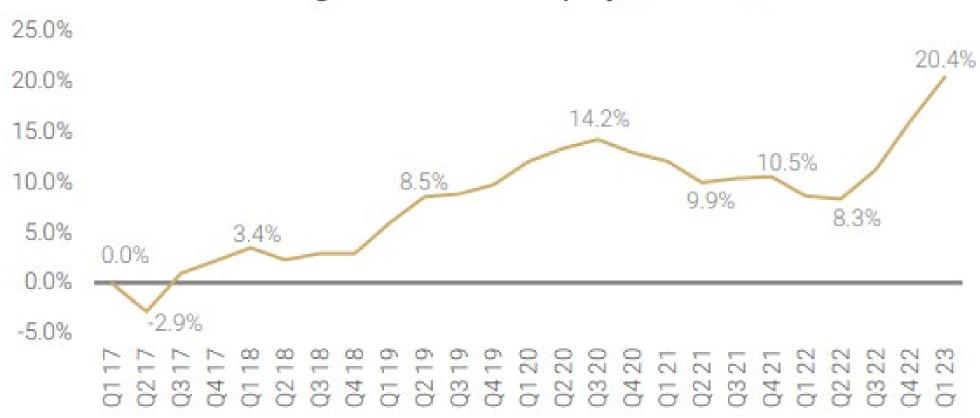


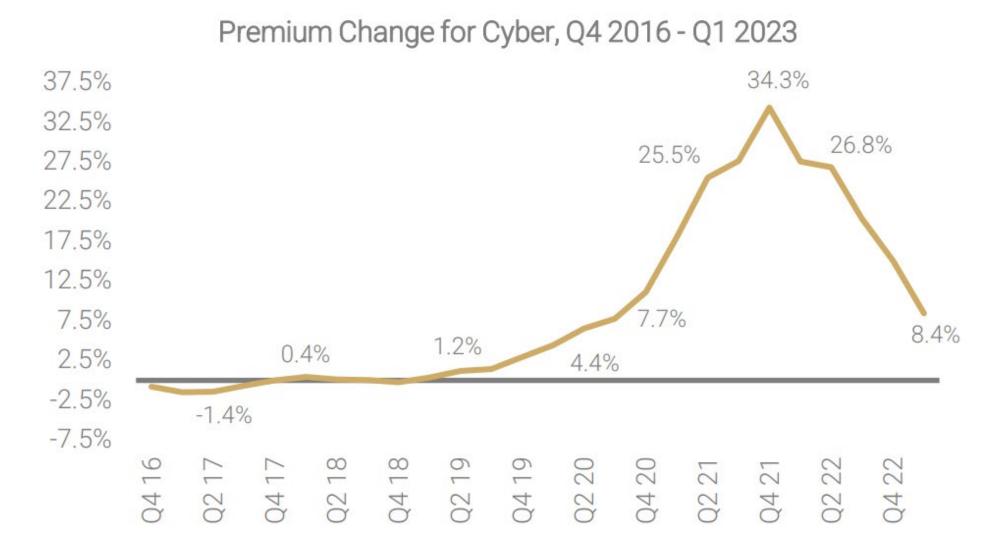
Source: Marsh Specialty and Global Placement

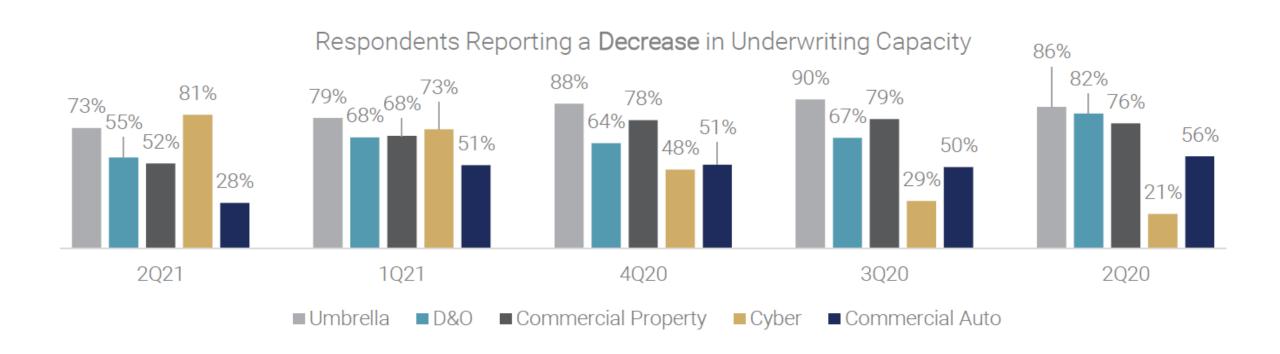


Source: The Council of Insurance Agents & Brokers









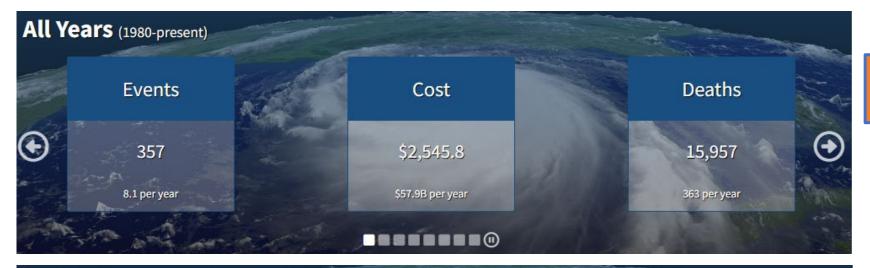
CIAB 2021 Q2 1

Why?

Why is it happening?

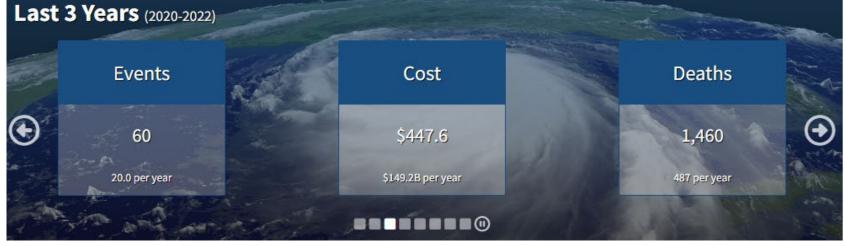
Property

Why is it happening?

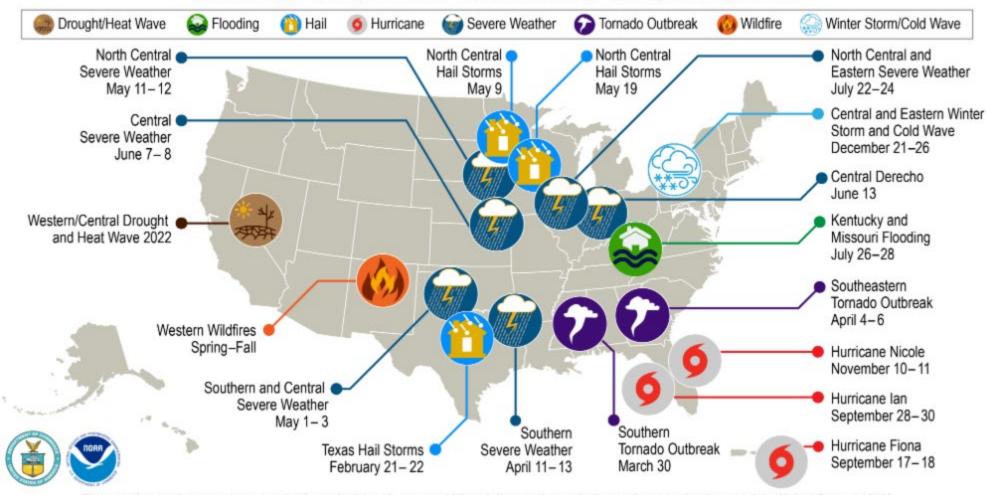


Inflation-adjusted costs!

20% of Billion Dollar events of the last 43 years happened since 2020.

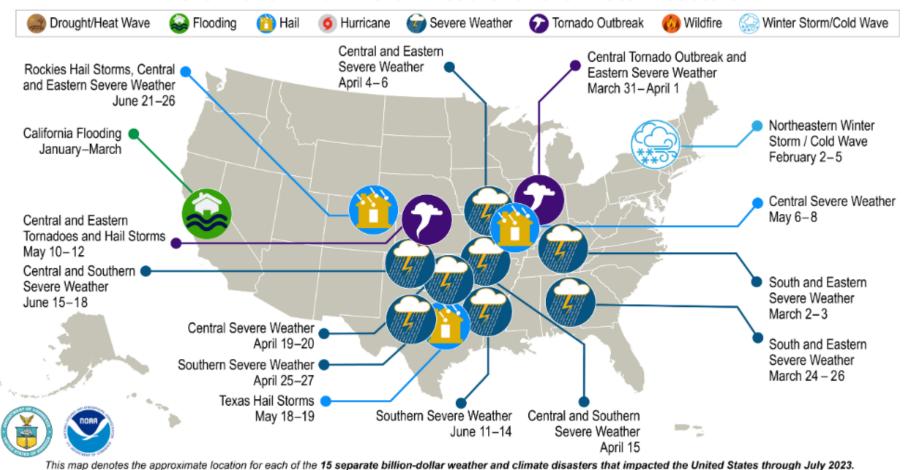


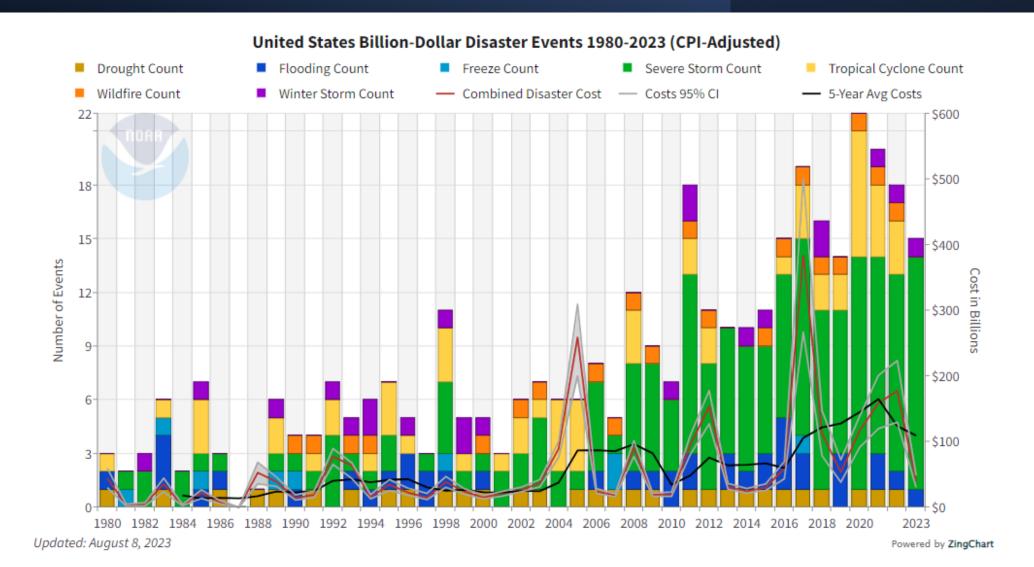
U.S. 2022 Billion-Dollar Weather and Climate Disasters

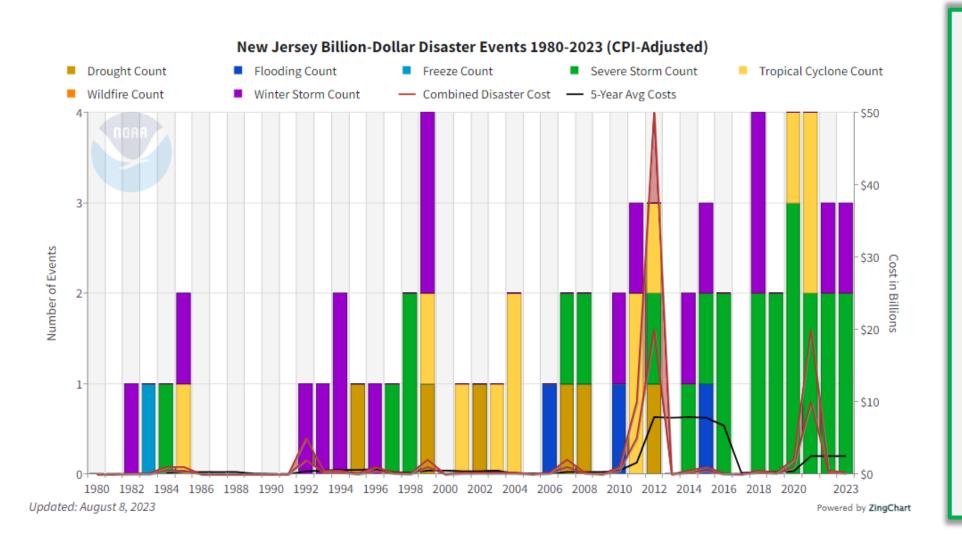


This map denotes the approximate location for each of the 18 separate billion-dollar weather and climate disasters that impacted the United States in 2022.

U.S. 2023 Billion-Dollar Weather and Climate Disasters







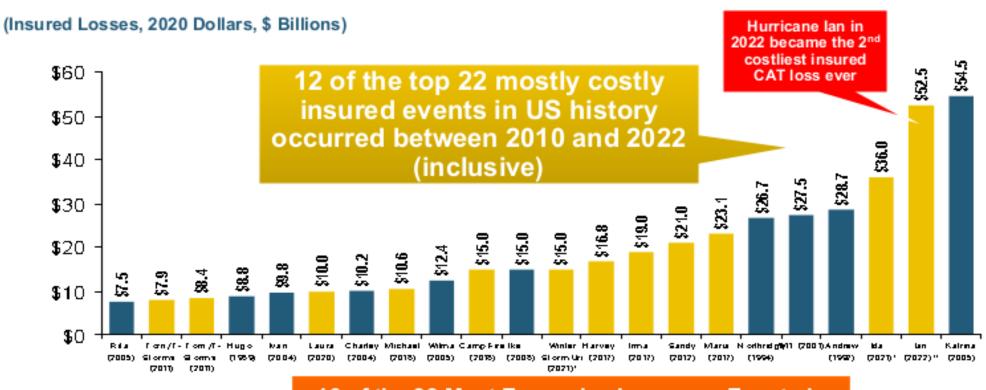
Between 1980 and 2022, 24 Severe
Storm, 12 Tropical Cyclone, 17 Winter
Storm, 3 Flooding, 6 Drought, and 1
Freeze billion-dollar disaster events
affected New Jersey (CPI-adjusted).

42 years - 63 events

Storm, 9 Tropical Cyclone, 8 Winter
Storm, 3 Flooding, and 3 Drought
billion-dollar disaster events affected
New Jersey (CPI-adjusted).

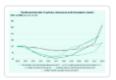
Last 20 years - 43 events

Top 22 Most Costly Disasters in U.S. History



18 of the 22 Most Expensive Insurance Events in US History Have Occurred Since 2004.

Property Focus



Retrocession rates now 165% higher than 2017 lows: Jefferies 4TH JANUARY 2023

Rates-on-line for non-marine catastrophe retrocessional reinsurance are now up approximately 165% on their 2017 lows, analysts at Jefferies have pointed out using data reported by broking group Howden.



Renewals: Catastrophe retro rates +50%, global property cat +37%, says Howden 3RD JANUARY 2023

Risk-adjusted non-marine catastrophe retrocession excess-ofloss rates-on-line rose by 50% at the January 2023 renewals, while global property catastrophe reinsurance rates rose 37%, according to international broking group Howden.

Aggregate retro supply shrank further, terms more restrictive at 1/1: Gallagher Re

27TH JANUARY 2023

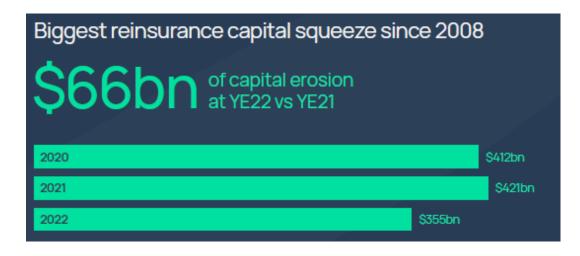
In the global retrocessional reinsurance market, the availability of aggregate covers had been shrinking for some time, but at the January 2023 renewals aggregate retro capacity supply shrank further, while the terms of protection continued to become more restrictive, broker Gallagher Re has said.

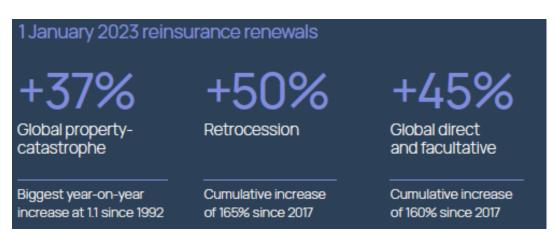
January Renewals See Hardest Property Catastrophe Reinsurance Rates in Generation

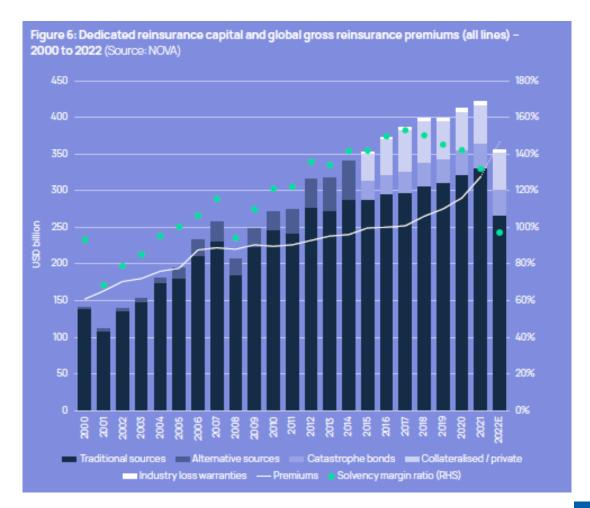
By L.S. Howard | January 4, 2023



Property Focus

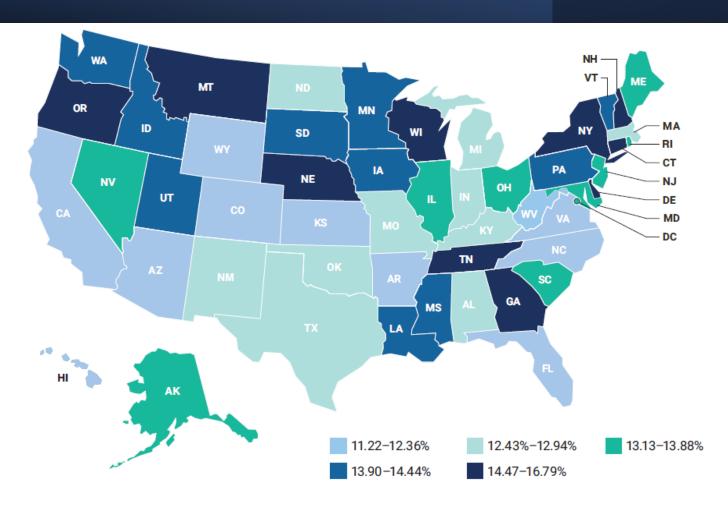






Howden - The great realignment

Inflation boosts reconstruction costs

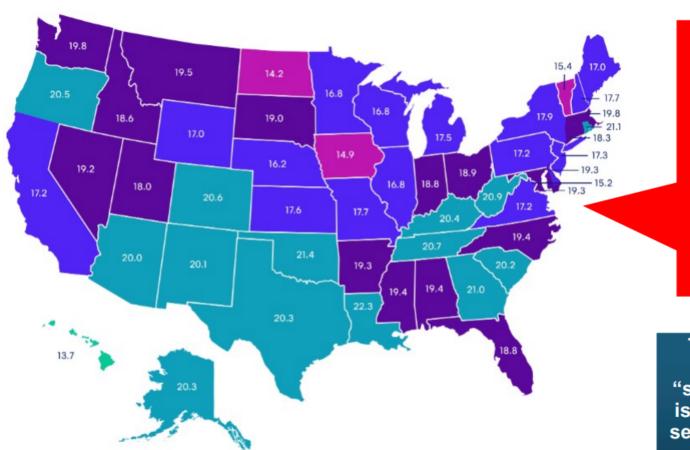


Changes in reconstruction costs by state.

States are grouped in quintiles; each range/color in the legend includes 20% of the total number of states.

* All rates, percentages, increases, decreases, etc., are calculated as percentage changes from April 2021 to April 2022, unless otherwise noted.

Length of Collision Replacement Rentals by State (Days), 2022:Q4



Avg. Length of Rental

2022:Q4: 18.7 days

2022:Q2: 17.7 days

2021:Q4: 17.0 days

2021:Q2: 13.2 days

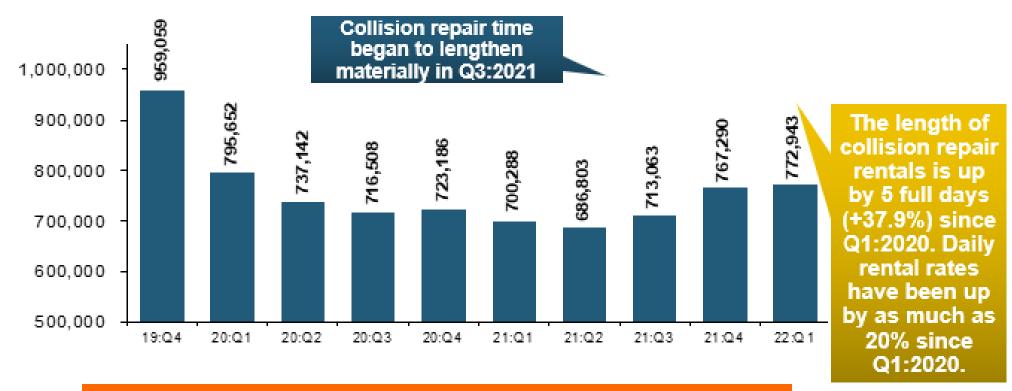
CHANGE: +1.7 Days (21:Q4 - 22:Q4)

CHANGE: +5.5 Days (21:Q2 - 22:Q4)

RANGE: 13.7 (HI) to 22.3 (LA)

The increase in length of rental was referred to as "striking" by Enterprise and is a key driver of auto claim severity. The increase in the cost of rentals materially exacerbates the problem.

Length of Collision Replacement Rentals, 2019:Q4 – 2022:Q1

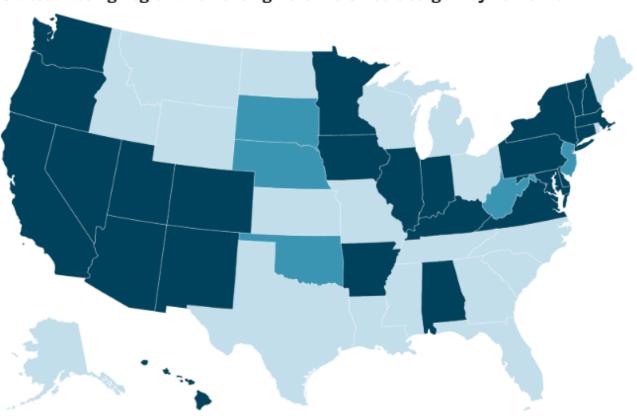


Supply Chain Issues Have Driven the Cost of Replacement Auto Rentals
Up Sharply Since the Pandemic Began in Q1:2020

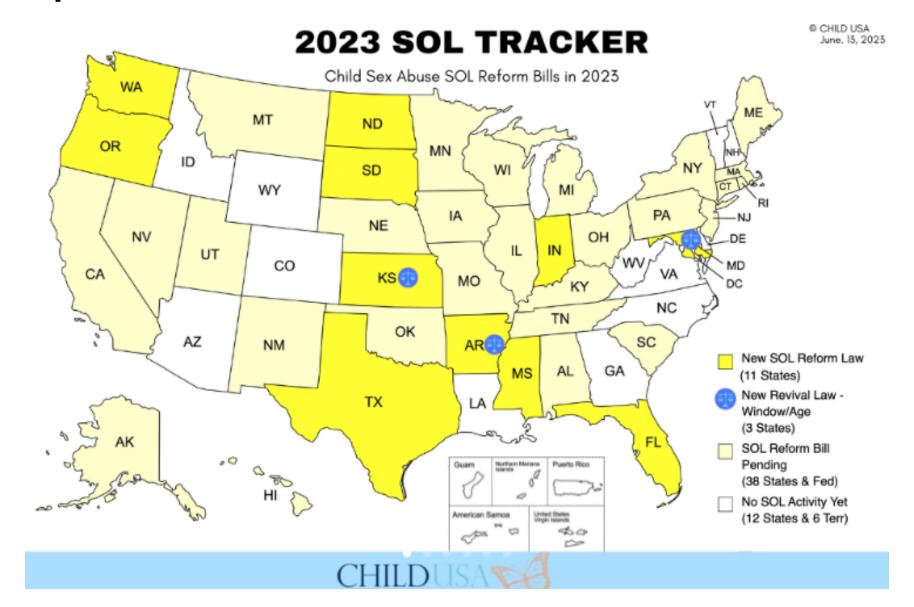
Liability

Why is it happening?

States Passing Legislative Policing Reforms Since George Floyd's Murder



- States that enacted legislation between May 25, 2020 and May 21, 2021 in at least one of three identified areas: use of force; duty for officers
 to intervene, report, or render medical aid in instances of police misconduct; or policies relating to law enforcement misconduct reporting and
 decertification.
- States that enacted policing reform legislation during the same time period outside of the three identified areas.
- States that failed to enact substantive statewide police reform legislation. These states may have passed legislation creating a task force or commission charged with providing recommendations on policing policy and practice; or legislation enacting police reform limited to one county.



Social Inflation

Figure 2: Median Nuclear Verdict & Trend Line, 2010 - 2019

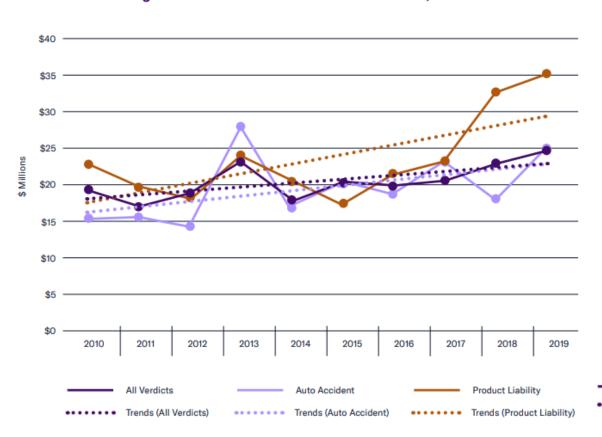
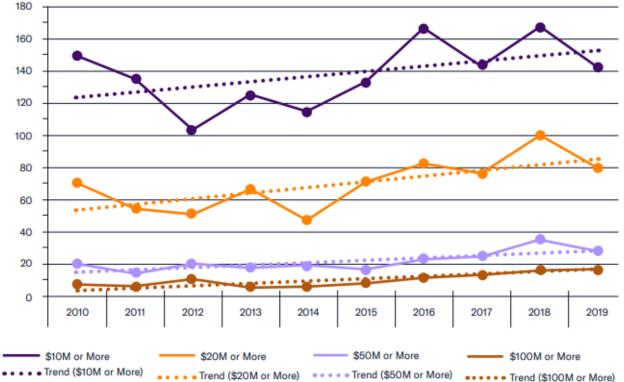


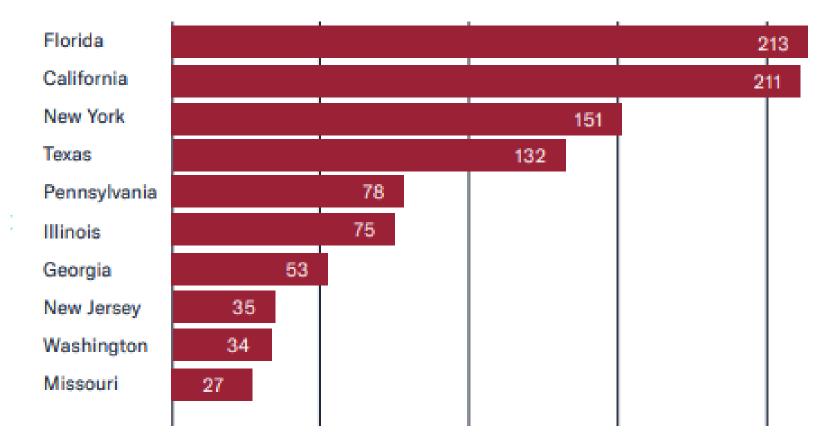
Figure 3: Number of Reported Nuclear Verdicts, 2010 - 2019



The solid lines in the graph show the median reported nuclear verdict each year for all verdicts, and auto accident and product liability cases in particular. The dotted lines show the trend for each within the ten-year study period.

Social Inflation

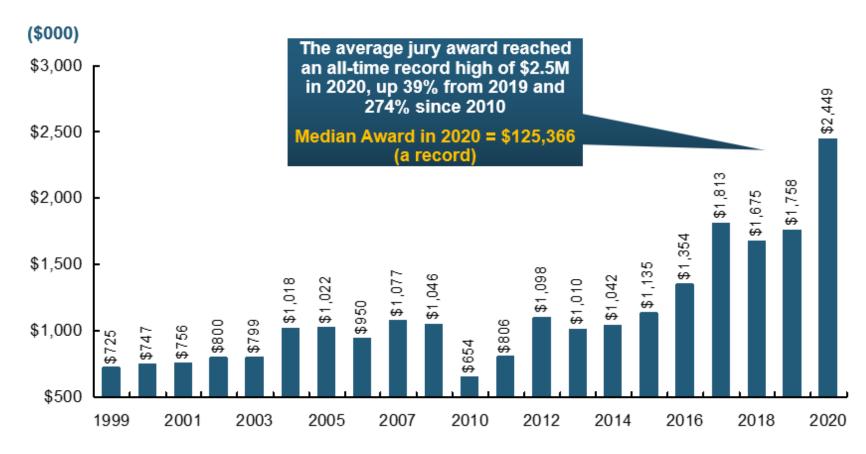
Figure 5: Top 10 States by Cumulative Nuclear Verdicts, 2010 – 2019



Institute for Legal Reform

Social Inflation

Average Jury Awards, 1999 – 2020 (latest available)

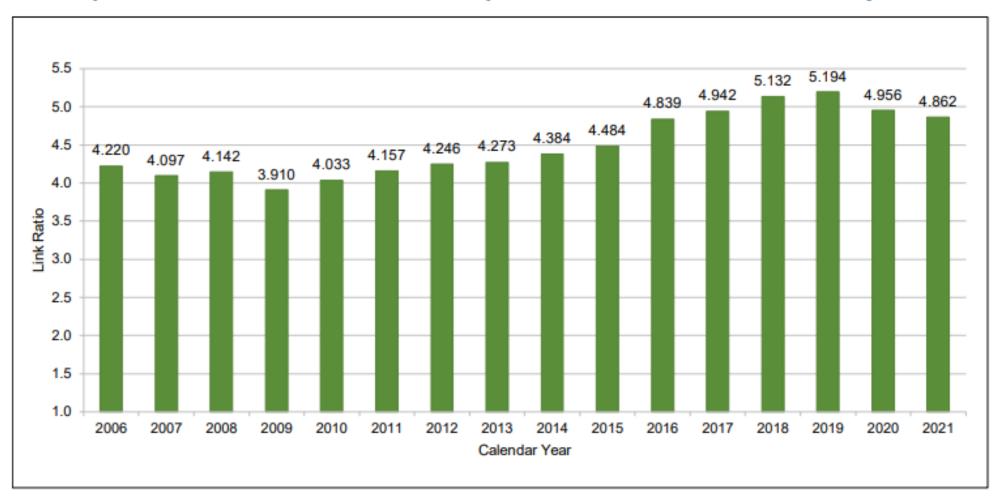


Source: Jury Verdict Research; Current Award Trends in Personal Injury (61st Edition), Thomson Reuters; Risk and Uncertainty Management Center, Univ. of South Carolina.

CAS Actuarial Review 2020

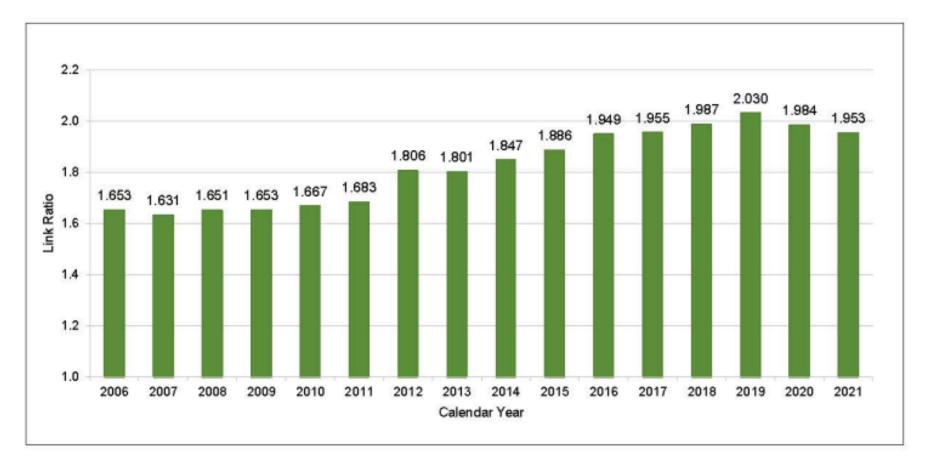
Social Inflation

Chart 4. Net paid loss and DCC CYR 12-60 loss development factors - commercial auto liability



Social Inflation

Chart 5. Net case-incurred loss and DCC CYR12-60 loss development factors - commercial auto liability



CAS Actuarial Review 2023

Upward Creep in Loss Development

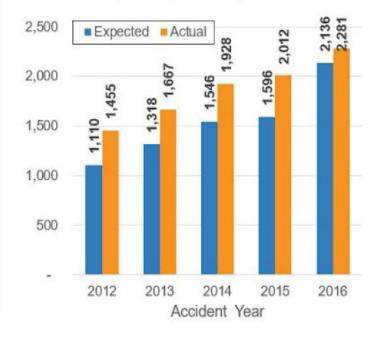
Key Assumption: LDF is RV about mean + inflation

Comm Auto LDFs

	12	24	36	48
2009	1.34	1.14	1.08	1.03
2010	1.36	1.16	1.08	1.04
2011	1.40	1.16	1.08	1.04
2012	1.40	1.16	1.09	1.04
2013	1.41	1.18	1.10	1.04
2014	1.42	1.19	1.10	1.05
2015	1.45	1.18	1.11	
2016	1.43	1.20		
2017	1.44			

2-Year Expected vs. Actual

12-36 Development (\$ Millions)



Marketplace Overview

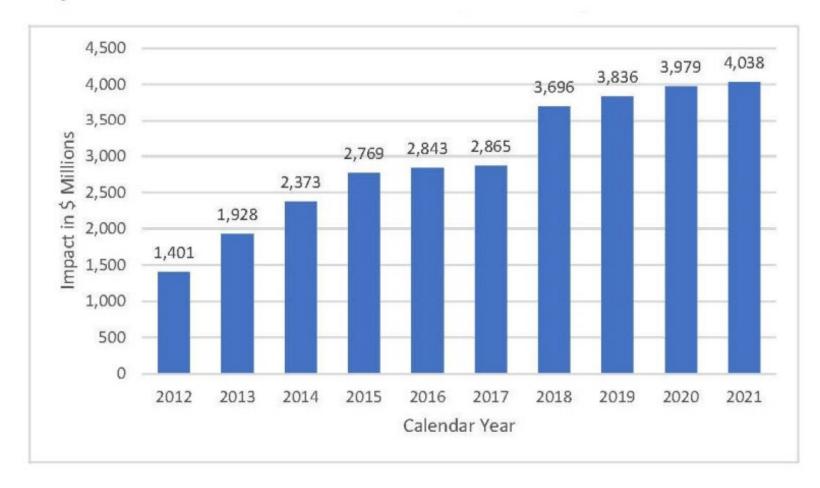
Social Inflation



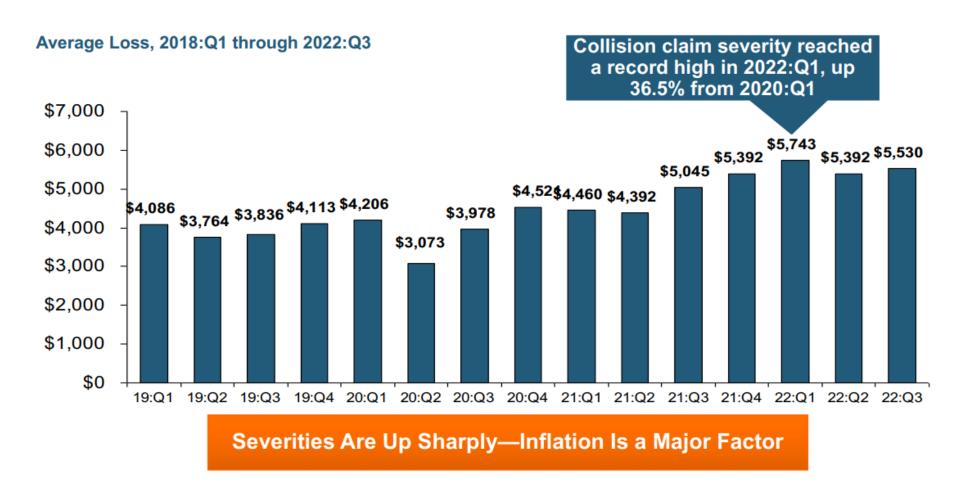
Social Inflation

Marketplace Overview

Chart 6. Case-incurred estimate of impact of social inflation by year - P&C Industry - commercial auto liability

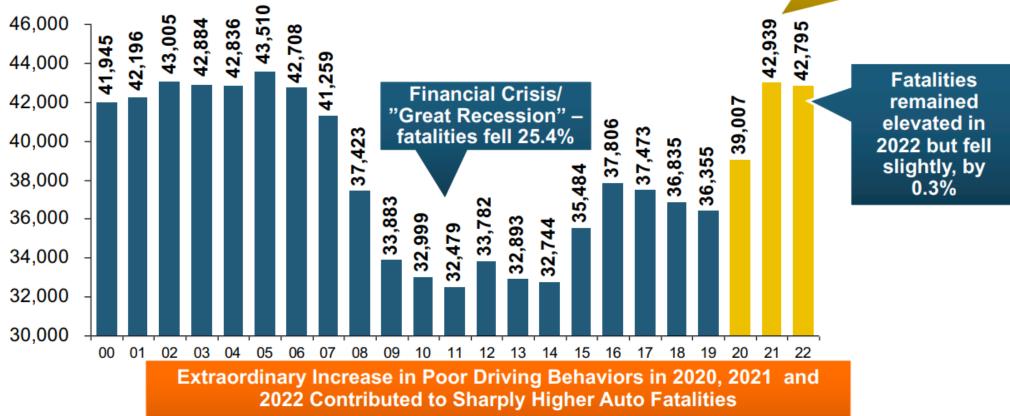


Collision Claim Severity: Rising to New Record Highs



Traffic Fatalities in the U.S., 2000-2022





^{*2022} figure is annualized based on actual of 31,785 through Sept. 30 (a decline of 0.2% from the same period in 2021).

Source: Insurance Institute for Highway Safety and Highway Loss Data Institute: https://www.iihs.org/iihs/topics/t/general-statistics/fatalityfacts/overview-of-fatality-facts and NHTSA: https://www.nhtsa.gov/press-releases/traffic-crash-death-estimates-2022; Risk and Uncertainty Management Center, University of South Carolina.

Loss Triangle – Casualty (GL, LEL, AL)

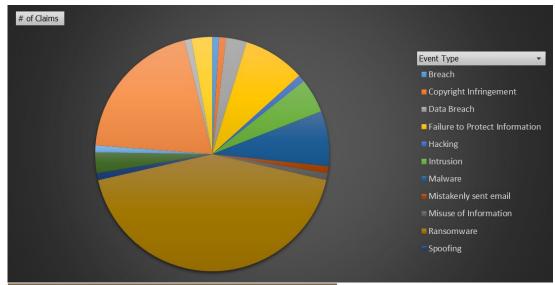
NJ Public Entity Data

Periods	12 Months	24 Months	36 Months	48 Months	60 Months	72 Months	84 Months	96 Months	108 Months	120 Months
2010	0.00000	1.13780	1.11219	1.02746	0.91319	0.98333	1.01849	0.99108	0.99103	1.00132
2011	0.00000	1.36123	1.25182	1.14434	1.03126	1.01112	1.00174	0.98479	1.00885	
2012	0.00000	1.44473	1.43415	1.13501	1.24090	1.01582	1.00879	1.01139		
2013	0.00000	1.34765	1.40192	1.22095	1.28895	1.11341	1.04103			
2014	0.00000	1.84575	1.66130	1.43813	1.06501	1.12903				
2015	0.00000	1.64865	1.64527	1.35753	1.09476					
2016	0.00000	2.42395	1.51306	1.12617						
2017	0.00000	1.73054	1.56209							
2018	0.00000	1.74066								
2019	0.00000									



Cyber

Why is it happening?



By Event Type

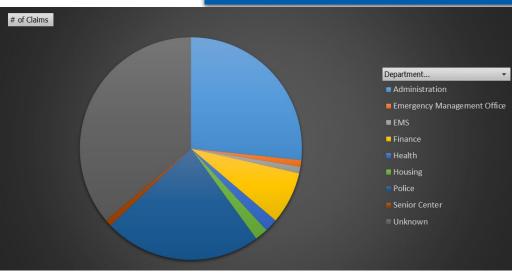
48% of data breaches were caused by human error or system glitch (57% for Public

Sector)

2022 Ponemon Institute

20% of breaches due to compromised credentials and 16% due to third-party vulnerabilities

By Department



287

Average number of days to identify and contain a data breach

The longer it took to identify and contain, the more costly the breach.

Data breaches that took longer than 200 days to identify and contain cost on average \$4.87 million, compared to \$3.61 million for breaches that took less than 200 days. Overall, it took an average of 287 days to identify and contain a data breach, seven days longer than in the previous report. To put this in perspective, if a breach occurring on January 1 took 287 days to identify and contain, the breach wouldn't be contained until October 14th. The average time to identify and contain varied widely depending on the type of data breach, attack vector, factors such as the use of security AI and automation, and cloud modernization stage.

\$4.62m

Average total cost of a ransomware breach

Ransomware and destructive attacks were costlier than other types of breaches.

Ransomware attacks cost an average of \$4.62 million, more expensive than the average data breach (\$4.24 million). These costs included escalation, notification, lost business and response costs, but did not include the cost of the ransom. Malicious attacks that destroyed data in destructive wiper-style attacks cost an average of \$4.69 million. The percentage of companies where ransomware was a factor in the breach was 7.8%.

20%

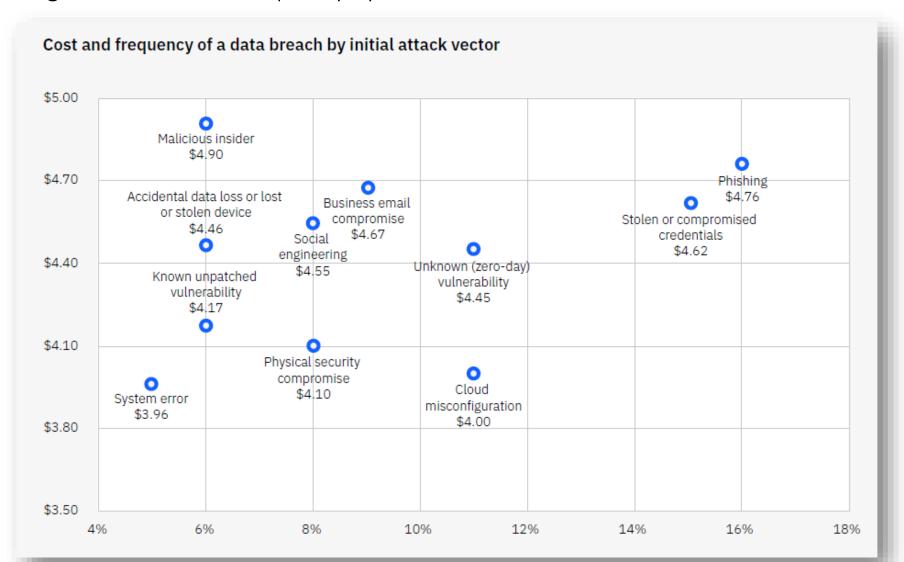
Share of breaches initially caused by compromised credentials

Compromised credentials was the most common initial attack vector, responsible for 20% of breaches.

Business email compromise (BEC) was responsible for only 4% of breaches, but had the highest average total cost of the 10 initial attack vectors in the study, at \$5.01 million. The second costliest was phishing (\$4.65 million), followed by malicious insiders (\$4.61 million), social engineering (\$4.47 million), and compromised credentials (\$4.37 million).

IBM Security

Average Total Cost and Frequency by Attack Vector



Current & Emerging Risks

Social Inflation	Pandemic Risk	Sexual Abuse and Molestation Claims	Statutory Presumptions	Post Covid-19
Aging Infrastructure	Non CAT Property Loss	Immunity Erosion	Climate & Weather •Storm Surge Risk; •Shortening and Intensifying Winters •Increased Precipitation and Resulting Inland Flooding •Intensifying Droughts	Internet of Things (IoT) •Telematics and Connected Vehicles •Connected Buildings/Cities
Cybersecurity	Cyber-attacks are now seen as one of the most serious economic and national security challenges now facing governments around the world.	Autonomous Vehicles	Nanotechnology	Marijuana Legalization



Renewal Strategy for Hard Market Underwriting Information

Strengthen Safety Programs

Program Structure
Alternatives

Identify and Address Critical Risk Factors

Widespread Marketing

Value of Carrier Loyalty and Relationships

Renewal Schedule

Renewal Information Collection

- Collect Loss Runs: End of July
- Obtain Initial Exposure Schedules: Mid-August (Property early September)
- Obtain Final Exposure Schedules: Early November

Renewal Processing

- Renewal Certificates
 - Holder Lists Sent to RMCs: August
 - Receive Holder Lists from RMCs and Update Holders: End of October
 - Send Renewal Certificates to RMCs: By Thanksgiving
- Auto IDs & Work Comp Postings
 - Update Issuance Count: Early November
 - Issue Auto IDs & Work Comp Postings: By Thanksgiving

Renewal Strategy

Property

Deductibles

- Standard deductibles (current)
 - \$3m Each Occurrence
- Annual aggregate deductibles
 - Such as \$5m aggregate throughout the year
- Annual aggregate deductibles with maintenance deductibles
 - Such as \$5m aggregate with \$100k maintenance deductibles for each occurrence that does not erode the aggregate

Quota share participation

- Full layer
 - 10% of \$110m
- Partial layer
 - Small share of primary layer (primary \$50m currently)
 - Large share of excess layer with no Flood/Quake risk (\$75m x \$50m currently)
 - Excess Flood/Quake risk only (\$25m x \$50m currently)

3. Review Structure

- Move to a full layered and quota share program
 - Typically, \$5m \$10m lead, with excess layers above
- Consider less limits or higher deductible in CAT in conjunction with a parametric product

Property

Current Structure

Excess Flood / Quake									
\$75,000,000									
Carrier Name	VELOCITY	AXIS	RSUI	ASPEN	ENDURANCE	STARSTONE	HALLMARK	FIDELIS	WESTFIELD
Participation	\$7,500,000	\$7,000,000	\$7,500,000	\$2,500,000	\$5,000,000	\$5,000,000	\$2,500,000	\$9,500,000	\$3,500,000
Part. Pct.	15.00%	14.00%	15.00%	5.00%	10.00%	10.00%	5.00%	19.00%	7.00%
Layer Premium	\$646,600	\$1,100,000	\$1,253,414	\$721,020	\$825,000	\$800,000	\$1,000,000	\$1,900,000	\$1,500,000
Part. Premium	\$96,990	\$154,000	\$188,012	\$36,051	\$82,500	\$80,000	\$50,000	\$361,000	\$105,000
			-						

\$260,000,000 Carrier Name Participation Part. Pct. Layer Premium Part. Premium	MITSUI (A) \$50,000,000 33.33% \$900,000 \$300,000	STARR SLIC (N/A \$50,000,000 23.33% \$950,000 \$221,667	\$20,00	*	FIDELIS (N/A) \$45,000,000 30.00% \$1,200,000 \$360,000					
\$110,000,000 Carrier Name Participation Layer Premium Part. Premium								FIDELIS (N/A) 19.50% \$2,350,000 \$458,250		Ark/New Ark AUW LLOYDS (N/A) 6.50% \$2,100,000 \$136,500
\$50,000,000 Carrier Name Participation Layer Premium Part. Premium	_	RICH 00%	HCC LLOYDS (N/A) 4.00% \$8,800,000 \$352,000	MUNICH (N/A) 5.00% \$8,803,030 \$440,152	BEAZLEY (N/A) 5.00% \$9,100,000 \$455,000	BERKSHIRE HATHAWAY (N/A) 10.00% \$10,000,000 \$1,000,000	AWAC (N/A) 6.50% \$8,000,000 \$520,000	Kiln/Rokstone LLOYDS (N/A) 15.50% \$6,767,516 \$1,048,965	WI LLOYD: 4.0 \$2,15(\$86,	S (N/A) 0% 0,000
\$25,000,000 Carrier Name Participation Layer Premium Part. Premium									Asc LLOYD 4.0 \$5,356 \$214	S (N/A) 0% 0,000

Coverage Updates

Property

Property Mapping

Flood Zone	Count	TIV	% of TIV	% of Property SOV
Unknown	1010	\$2,140,117,163	32.90%	35.30%
AR/AE	1	\$2,678,000	0.04%	0.04%
Zone A	32	\$36,617,077	0.56%	0.60%
Zone A2	2	\$1,182,286	0.02%	0.02%
Zone A4	1	\$14,221	0.00%	0.00%
Zone A5	3	\$8,181,492	0.13%	0.13%
Zone A6	4	\$942,217	0.01%	0.02%
Zone A8	37	\$203,690,265	3.13%	3.36%
Zone AE	209	\$538,966,156	8.29%	8.89%
Zone AO	1	\$5,459,000	0.08%	0.09%
Zone B	7	\$105,478,121	1.62%	1.74%
Zone C	231	\$579,700,534	8.91%	9.56%
Zone X	709	\$2,439,373,102	37.50%	40.23%
Zone X500	1	\$430,849	0.01%	0.01%
N/A	9632	\$442,260,289	6.80%	N/A
Grand Total	11880	\$6,505,090,771	100.00%	N/A
Property Total	2248	\$6,062,830,482	93.20%	100.00%

Occupancy Type	Count	TIV	% of TIV
Unknown	351	\$936,131,897	14.39%
Airport	8	\$13,509,008	0.21%
All Other	647	\$1,453,763,664	22.35%
Education	151	\$625,919,692	9.62%
Equipment	4171	\$186,767,473	2.87%
General Office	168	\$745,686,744	11.46%
General Storage	300	\$258,500,306	3.97%
Jail	30	\$555,745,543	8.54%
Library	79	\$328,467,718	5.05%
N/A	5402	\$238,016,319	3.66%
Parks & Recreation	337	\$283,822,441	4.36%
Public Safety	145	\$612,355,166	9.41%
Public Works	39	\$34,310,112	0.53%
Social Services	52	\$232,094,689	3.57%
Grand Total	11880	\$6,505,090,771	100.00%

Construction Type	Ψ.	Count	TIV	% of TIV	% of Property TIV
Unknown		478	\$223,840,668	3.44%	3.69%
Fire-Proofed Steel		5	\$105,820,431	1.63%	1.75%
Fire-Resistive		62	\$469,478,323	7.22%	7.74%
Frame		425	\$314,435,975	4.83%	5.19%
Joisted Masonry		298	\$1,309,968,763	20.14%	21.61%
Masonry Non-Combustibl	е	430	\$2,269,092,379	34.88%	37.43%
Mixed Construction		75	\$335,897,843	5.16%	5.54%
Modified Fire-Resistive		38	\$320,465,574	4.93%	5.29%
N/A		9632	\$442,260,289	6.80%	N/A
Non-Combustible		186	\$554,283,871	8.52%	9.14%
To Be Determined (TBD)		251	\$159,546,655	2.45%	2.63%
Grand Total		11880	\$6,505,090,771	100.00%	N/A
Property Total		2248	\$6,062,830,482	93.20%	100.00%

Property

Loss Information

- ✓ **Ida** \$9.7m
- ✓ Sludge Dryers \$4.6m
- ✓ Sludge Dryer \$3.7m
- ✓ Motor Vehicle Garage Fire \$3.3m
- ✓ Golf Course Fire \$2.1m
- ✓ Pipe Freeze \$1.9m
- ✓ Pipe Freeze \$1.8m
- ✓ Pipe Freeze \$1.4m
- ✓ Pipe Freeze \$1.1m

Property

Loss Information

Underwriting year	Ground Up Loss	Claims Paid (Net of Deductible and Recoveries)	Oustanding reserves	Total Incurred (Net of Deductible and Recoveries)	Total Incurred at 100% (Net of deductible and Recoveries)	Claim count (all reported cases)
2012	901,328	945,328	-	945,328	-	13
2013	1,021,604	1,021,604	-	1,021,604	-	8
2014	421,973	421,973	-	421,973	-	7
2015	4,355,541	4,480,639	-	4,480,639	-	13
2016	2,673,434	2,771,556	-	2,771,556	-	30
2017	6,030,595	6,040,197	-	6,040,197	-	18
2018	7,777,546	6,595,684	1,181,863	7,777,546	-	25
2019	5,033,005	786,299	4,246,706	5,033,005	-	14
2020	442,200	442,200	-	442,200	-	6
2021	9,754,568	193,770	9,560,799	9,754,568	-	2
Total	38,411,794	23,699,250	14,989,368	38,688,616	-	136

Renewal Strategy

Casualty

Retentions

- Standard retention (current)
 - \$1.5m Each Occurrence
- Annual aggregate retention
 - Such as \$5m aggregate throughout the year
- Annual aggregate retention with maintenance retentions
 - Such as \$5m aggregate with \$250k maintenance retentions for each occurrence that does not erode the aggregate

2. Quota share participation

- Full layer
 - 10% of \$40m x \$1.5m
- Partial layer
 - 10% of \$20m x \$20m

3. Review Structure

Consider bringing in more partners on a quota share basis

Liability

Claims Development

Claims Development Summary

- ✓ Claim frequency and severity has been steadily rising over past five years.
- ✓ Law Enforcement represent majority of rise, with Auto Liability just trailing.
- ✓ On average, we are seeing at least one claim per year greater than \$1m

This information tracks with the industry wide observations captured in the idea of "social inflation" whereby tails are longer with significantly larger development +3 years out.

Renewal Strategy

Public Officials & Employment Practices

- 1. Moving to Excess Program
 - More, and easier, control of attorneys, rates and coverage decisions
 - Some NJCE members already have this type of program

Renewal Strategy

Cyber

1. Obtain quotes for higher Each Claim and Aggregate Excess Limits

Additional Coverage Considerations

- Casualty \$10m x \$40m, or beyond
- POL / EPL \$10m x Primary, or beyond
- Cyber Physical Damage
- Active Shooter / Active Assailant
- Additional Limits of Insurance

Additional Risk Transfer Tools

- Captive
- Parametric
- Alternative Risk Supplemental



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