#### **►**Alliant

## Orange County Sanitation District

Insurance Market Update & Renewal Expectations

May 10, 2023

Presented by: Robert Lowe





#### **Presentation Contents**



**Insurance Market Financial Performance** 



Catastrophic Perils and the effect on capacity



**Commentary by Line of Coverage** 



Specifics Regarding July 1 Renewals



#### **Market Pressures...**

"While the industry balance sheet is strong enough to meet the commitments to insureds, it is facing emerging challenges from the significant and increasing impact of catastrophic weather events, cyber risk and significant price and social inflation/lawsuit abuse," Robert Gordon, senior vice president of policy, research, and international for APCIA, said in a statement.





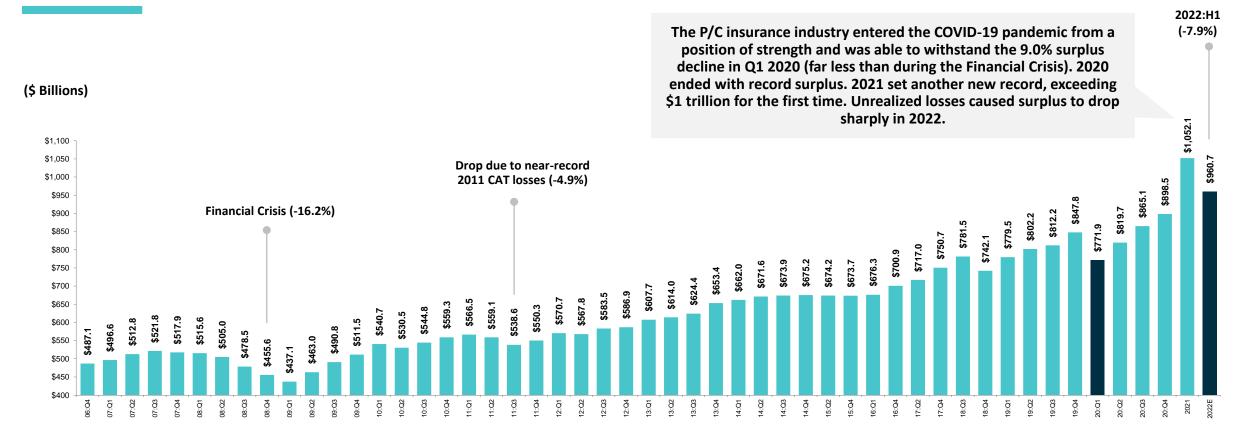
#### **Market Conditions**

#### Impactful issues for insureds:



- Liability capacity pull back and withdrawals have been significant over the past two years
- Property capacity reductions:
  - 15% to 30% reduction in capacity from incumbents, and not being replaced in the near term
  - Coastal and wildfire capacity continues to be especially difficult
- Cyber capacity is leveling but still particularly acute for certain industries (Public Entity)
- Insurers produced negligible profit in 2022 Expected \$112b in Global Insured CAT losses in 2022 – 3rd Worst Loss Year on Record.
- Excess Workers Compensation remains stable, but retained layer may be experiencing increased claims volume.
- Historically low interest rates have hampered carrier investment returns.
- An increased pattern of major property catastrophes such as hurricanes, typhoons, wildfires, winter storms and etc. over the past 5 years. Is this the new normal?
- Consistent increases in attritional property losses (fires, water damage, tornados, hail, wildfires).
- Increased inflation has added to the issue of valuation across all property classes.
- Social inflation & Litigation Financing driving up liability verdicts and settlements.
- Ransomware cyber losses are systemic \$6 Trillion Impact in 2021 Expecting \$10
   Trillion by 2025 2019 was \$2 Trillion

#### Policyholder Surplus (Capacity), 2006:Q4 – 2022:H1\*



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.



### Net Investment Yield on Property/Casualty Insurance Invested Assets, 2007–2022:H1



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

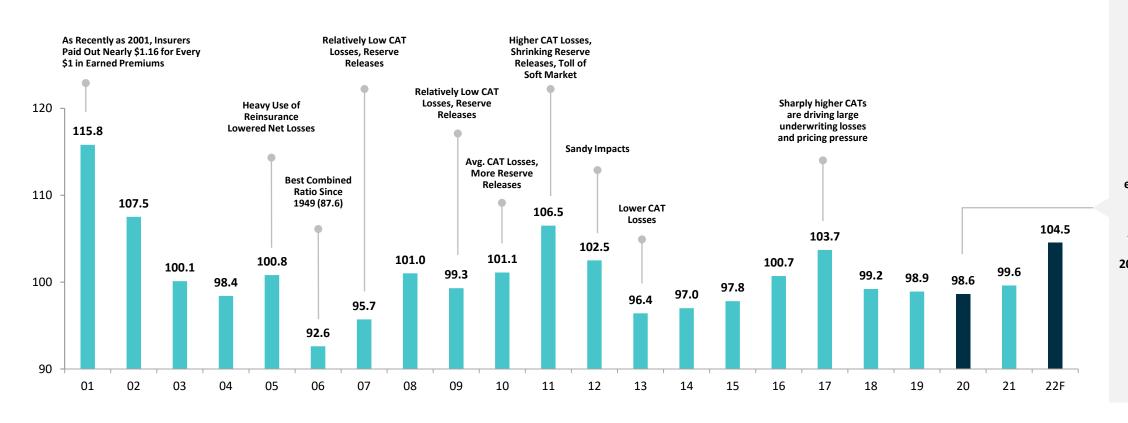


The yield on invested assets remains depressed relative to pre-financial crisis

and pre-COVID yields. Fed rate hikes in 2022 should begin to slowly lift yields.



#### P/C Insurance Industry Combined Ratio, 2001–2022F\*\*



COVID-19
has had no
discernable
net impact on
pre-COVID
expectations for
the combined
ratio in 2020;

-7.5 pts. due to CATs vs. 4.1 in 2019 (about twice avg.)

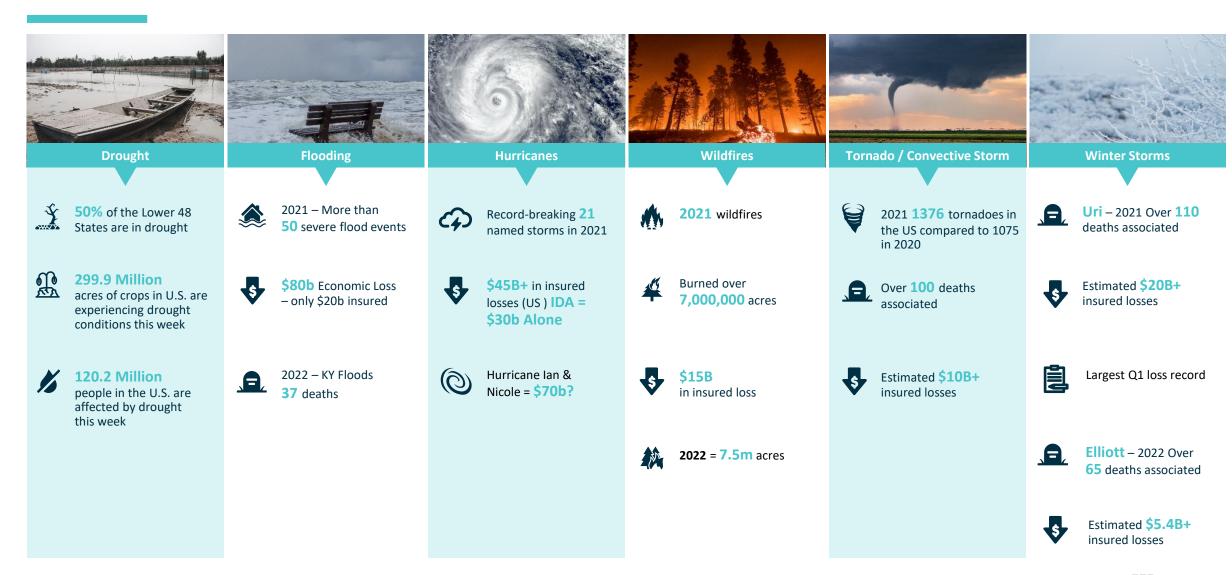
Pre-COVID 2020 <u>Combined Ratio Est.</u> 99.1 (A.M. Best) Actual = 98



<sup>\*</sup>Excludes Mortgage & Financial Guaranty insurers 2008–2014.

<sup>\*\*2022</sup> figure is forecast. A.M. Best Review and Preview (Feb. 2021). Sources: A.M. Best, ISO (2014-2022F).

#### **Recent CAT Losses**





#### The Makings of a Hard Market - Timeline



#### 2016 is the height of a soft market.

Buyers and producers are happy, prices are low and companies compete to pay producers commission.

Western

2022 -

2022

2018

2020 -

2022





2017 Costliest Year on Record for Natural Disasters

16 separate events, each causing damages in excess of \$1B1

2017 Hurricane Season Ranks as Costliest Ever for U.S.



California Wildfires

Market Starts to Harden Due to Catastrophes

The market begins to harden and capacity constricts causing supply and demand issues for insurers

10/17/2018 **Hurricane Michael** 

> > Category 5 > 9th most costly storm on record (\$25B)3

Hurricane Michael is the Most Powerful Storm to Hit the Florida Panhandle on Record



The Rise of Social Inflation The rising cost of insurance claims due to the impact of societal factors such as:

- > An increase in litigated claims and larger jury awards > Broader definitions of coverage by the
- legal system, such as pandemic insurance > Use of Public Adjustors in the
- This all caused the losses from the 2017

claims process > Changing views of social responsibility and 2018 seasons to be much bigger

2020 **Rising Reinsurance Costs** 

Florida insurers seeing rate increases of at least 20% and as high as 60%

2020

**Very Low Interest Rates** Very difficult to earn the investment

return many carriers are dependent on, causing reduced risk appetite



Colorado Wildfires

Rising Costs

Due to inflation, social inflation, undervaluation, and a lack of insurance capacity, creating a hard market.

2021 **Another Active Catastrophe Season** 

with the second most disasters in a calendar year, behind 20205

- > Winter storm event in the deep south
- > Extreme heat, drought and wildfires across western U.S.
- > Hurricane Ida

2021

2017

#### 8/17/2017

#### Hurricane Harvey<sup>2</sup> > 2nd costliest storm on record (\$125B)

> Dumped approximately 29 trillion gallons of water on Texas and Louisiana

Harvey The 'Most Significant Tropical Cyclone Rainfall Event' in U.S. History



#### 8/30/2017 Hurricane Irma

> Category 5

> 5th costliest storm on record (\$50B)

#### 9/16/2017

#### **Hurricane Maria**

> Category 5

> 3rd costliest storm on record (\$90B)

2018 California Wildfires

2022

Western Drought

and Heatwaves



#### 2019

2017-2022 Natural Disaster Locations

2020-2021

Colorado

2021

Hurricane

than anticipated.

#### COVID-19 **Global Pandemic**

> Bigger losses than 9/11

Uncertainty around full impact to the industry and the world

2020

Hurricane

Sally

Hurricane Hurricane

2020

#### 2020

2020 Windstorm

#### 2020 **Active Catastrophe Season**

> Most active storm season on record

> Cost estimated to be over \$30B for Hurricanes Isaias, Laura and Sally alone4 2020 Atlantic Hurricane Season

Breaks All-time Record while Leaving the Gulf Coast Battered

#### 8/10/2020 Midwest Derecho

Caused \$7.5B in damage in just 14 hours and generated winds up to 140 MPH

2020 Global Insurance Market Starts to Harden



> Estimated to exceed \$50B in insured and uninsured losses5

2022

Aftermath of Hurricane Ian,













2017

Hurricane

2018

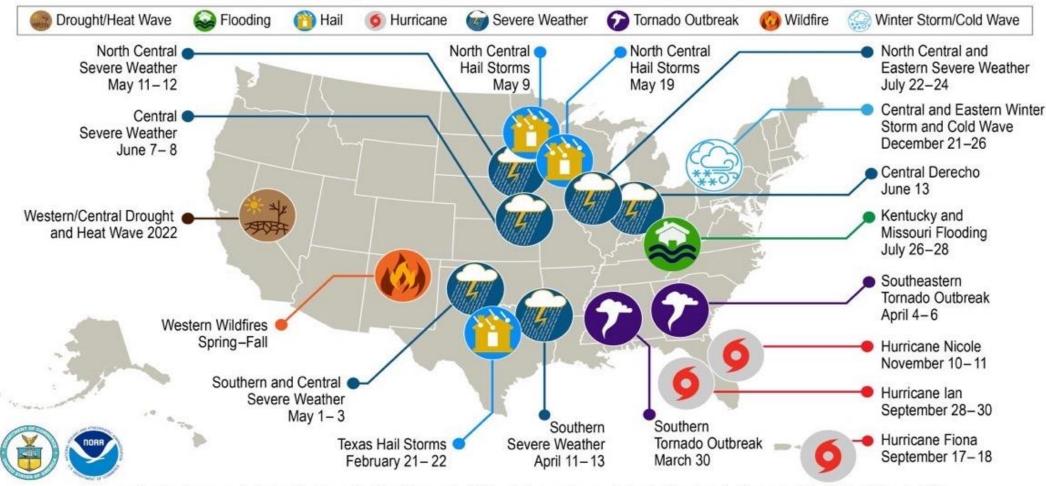
Hurricane

Hurricane

Maria

#### Major U.S Losses in 2022

#### 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.



#### The "Newest" CAT Peril: Wildfire



Climatic changes are resulting in larger and hotter wildfires occurring each summer and later into fall.



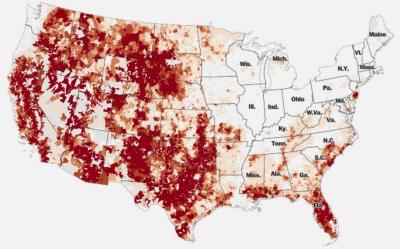
Beyond the physical damage and destruction of wildfires, intense smoke significantly impacts the health and economy of communities:

- Reduced travel and tourism leading to loss of sales and occupancy taxes.
- Reduced school attendance and outdoor activities.
- Smoke can hurt your eyes, irritate your respiratory system, and worsen chronic heart and lung diseases.



Continued investment & development of high-risk areas.















## Trend and Valuation

#### **Construction Cost Trends**

Inflation is not the only challenge impacting construction costs. While certain material costs increases may have subsided and some supply chain issues have diminished, the construction industry is faced with significant labor challenges. The shortage of skilled labor, coupled with increasing wages, is extending project completion timelines and impacting the cost of both existing projects and new bids.

#### **January 2023 Construction Cost Trends**

8.4%

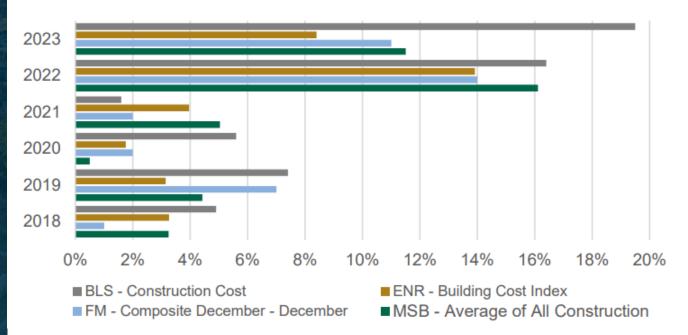
ENR - Building Cost Index

11.0%

FM – Composite December – December 11.5%

MSB - Average of all Construction

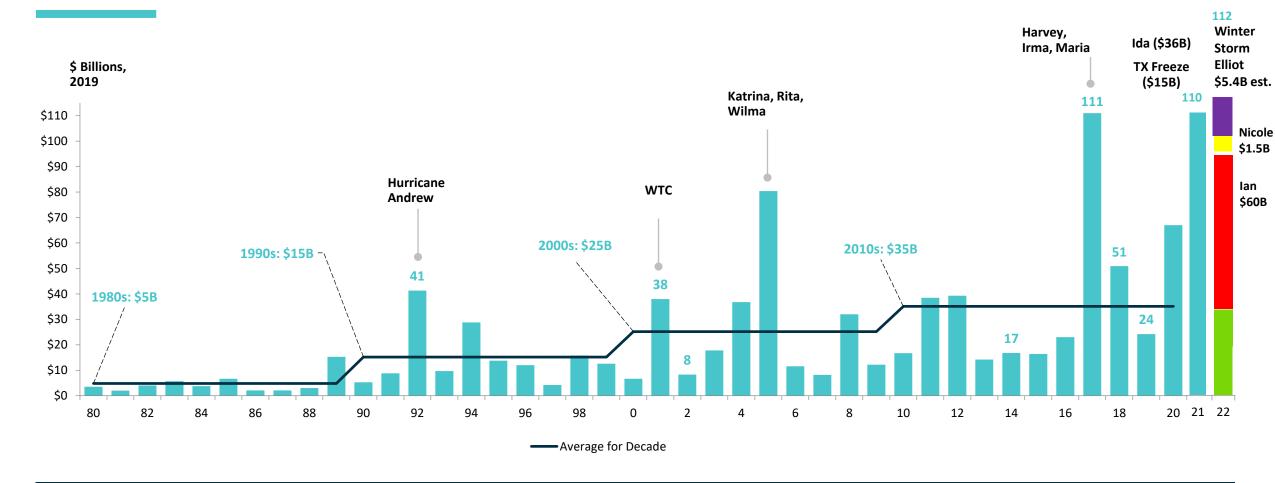
#### **Construction Cost Trends January Yearly**



WWW.cbiz.com/valuation



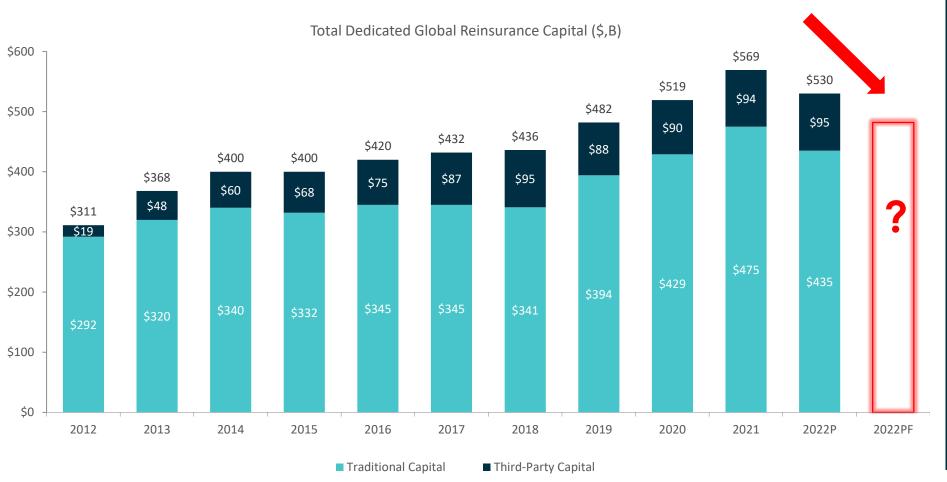
#### **U.S. Inflation-Adjusted Insured CAT Losses**



Insured Cat Losses Are Increasing At An Alarming Rate – Nearly 700% Since 80's Average Insured Loss per Year\* | 1980-2021: \$23.8 Billion | 2012-2021: \$44.1 Billion



#### Reinsurance Capacity Supply & Demand Imbalance



Reinsurance Capital Supply Is Expected To Be Down \$50B + At YE:22 While **Demand** Is Estimated To Be Up \$30B +.





#### Property Reinsurance Rate Movements as of 1/1/23

Territory	Pro rata commission	Risk loss-free % change	Risk loss-hit % change	Catastrophe loss-free % change	Catastrophe loss-hit % change
Australia	-5.0% to -2.5%	+5% to +15%	+15% to +30%	+10% to +20%	+25% to +45%
Canada	-4% to -2%	+10% to +20%	+20% to +35%	+12% to +25%	+20% to +40%
Central & Eastern Europe	-1.5% to 0.0%	+5% to +20%	+20 to +35%	+10% to +30%	+20% to +50%
China	-4% to -1%	+15% to +30%	n/a	+20% to +30%	n/a
Europe	n/a	+20% to +30%	n/a	+25% to +40%	n/a
France, Belgium	n/a	+10% to +20%	+20% to +30%	n/a	+25 to +60%
Germany, Switzerland, and Austria	n/a	+25% to +60%	n/a	+25% to +60%	n/a
Italy	n/a	n/a	+5% to +25%	+7.5% to +20%	+10% to +35%
Indonesia	-2.5% to 0%	+5% to +20%	+30% to +40%	+5% to +20%	+30% to +40%
Korea	-10% to -5%	n/a	+50% to +100%	+15% to +20%	+50% to +100%
Latin America	-7% to 0%	0% to +12%	+10% to +25%	+7% to +35%	+10% to +45%
MENA, South Africa	-3% to 0%	+5% to +10%	+10% to +25%	+15% to +30%	+30% to +50%
Malaysia	-9%	+20% to +25%	+25% to +100%	+20% to +25%	+25% to +100%
Netherlands	-2% to 0%	+2.5% to +17.5%	+7.5% to +25%	+5% to +32.5%	+15% to +45%
Nordic Countries	n/a	+10% to +30%	+15% to +50%	+15% to 30%	+25% to +35%
Turkey	-5%	+20% to +50%	n/a	+20% to +50%	n/a
United Kingdom	n/a	+20 to +25%	+30% to +40%	+20 to +27.5%	n/a
United States	-6% to -3%	+15% to +25%	+35% to + 150%	+25% to +50%	+45% to +100%

Property reinsurance prices are up around the world, especially for CAT-loss hit accounts:+45% to 100% increases in the US



#### Casualty Market Major Disruptors









- Cost of Vehicles/Technology
- Fatality Trends
- Distractive Driving Cell Phones
- Frequency and Severity Trajectory
- Opioids
- Tele Medicine
- Aging Workforce
- Medical Cost Inflation

- Cancer & PTSD Presumption
- Workplace Violence
- COVID
- Out of State Exposure

- Increase in Catastrophic Losses
- Punitive Damage Awards
- Organized Plaintiff Bar
- Personal Injury Trends

- Traumatic Brain Injury
- Aging Infrastructure
- Sexual Misconduct
- Excessive Force



#### **Increasing Impact on Liability Market**



**Reduced Capacity** reinsurer withdrawals have been significant over the past two years



**Litigation Financing** continues to drive large claims and 68% of firms are using it in 2021



**Plaintiff Attorney Strategies** specialization and strategies have evolved to get larger verdicts and settlements.



**Hyper Social Inflation** "A Texas jury awarded \$300

billion to the family of a teen and her grandmother, who were killed in a 2017 crash with a drunk driver." This type of verdict is meant to send a message to others.



**Labor Shortage** everyone is doing more with less



**Reviver Legislation Amendments** 

A rise in Sexual Abuse and Molestation claims and settlements



**Law Enforcement** 

Increased focus on policing policy and procedures as well as pressure on **Qualified Immunity** 



**Auto Liability** 

Frequency & Severity of losses has returned to pre COVID figures



**Underwriter Scrutiny** 

reinsurers are seeking to grow prudently and are maintaining a disciplined, conservative underwriter approach.



Inflation

Rising cost are increasing the size of claims

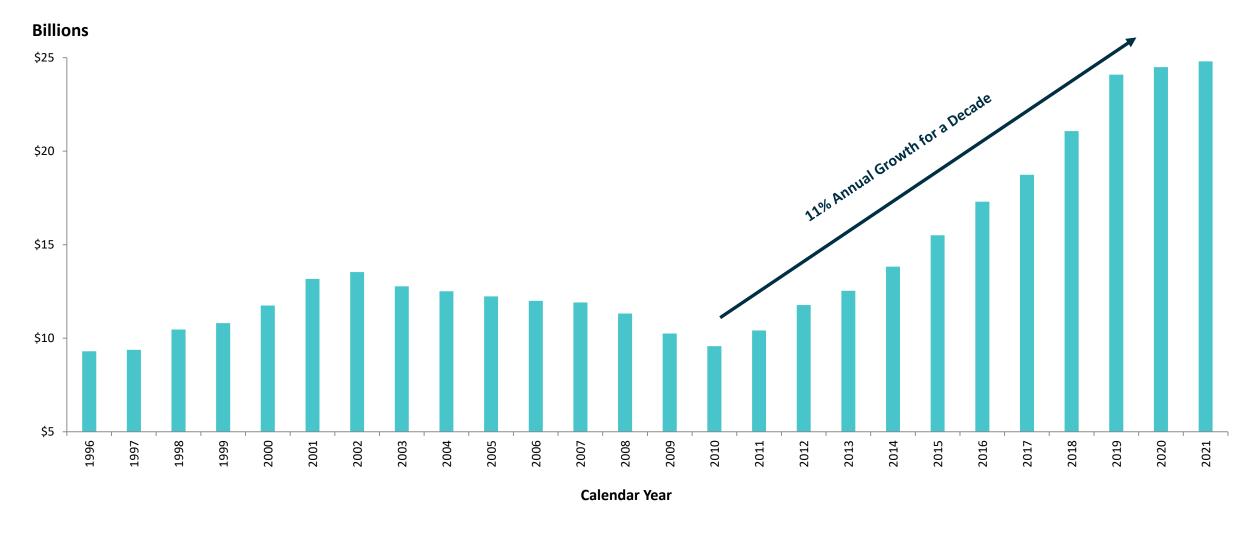


**Exclusions** 

continued restrictions surrounding sexual abuse, Wildfire Exclusions, COVID, cyber, opioids and man made chemicals (PFAS – new focus)

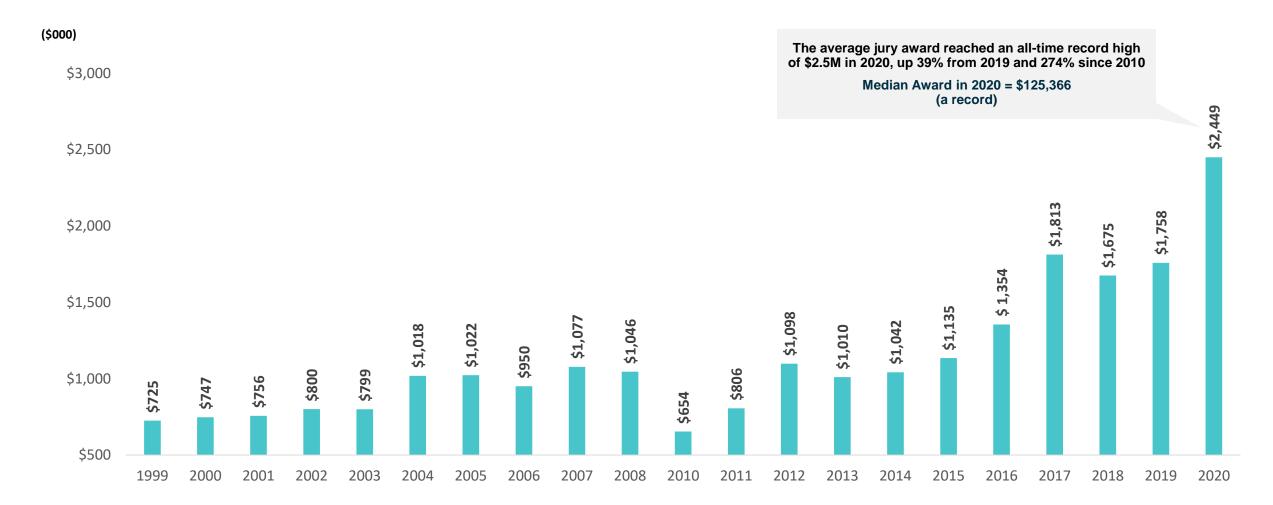


#### **Upward Trend in Liability Claims**





#### Average Jury Awards, 1999 – 2020 (latest available)





# Liability Claim Values: Unfavorable Jurisdictions

In its recently released annual report, the ATRA identified 8 jurisdictions on its 2022 hellholes list – which, in order, include:

- 1. Georgia, most prolific producer of nuclear verdicts nationwide from 2010 to 2019, 53 personal injury and wrongful death nuclear verdicts totaling more than \$3b. Rise is largely attributed to allowance of "anchoring" by plaintiffs' lawyers.
- 2. Pennsylvania,
- 3. California, which fell from number 1 spot a year ago (with the plaintiffs' bar taking advantage of unique California laws like the Private Attorney General Act);
- 4. New York City (particularly regarding Americans With Disabilities Act accessibility claims and an activist attorney general battling climate change with energy companies),
- 5. Illinois (especially Cook, St. Clair, and Madison counties and regarding asbestos litigation and Illinois Biometric Information Privacy Act class actions),
- 6. South Carolina (particularly in asbestos litigation).
- 7. Louisiana (including deceptive lawsuit advertising practices and coastal litigation),
- 8. St. Louis, Missouri



## Cyber Renewal Outlook



#### Leading insurers have indicated "We may have hit rate equilibrium"

#### 2023 Forecast:

- Nominal increases, for "good" risks and most
- Growth in capacity in past 6 months deployment
- HOWEVER, Increased per-claim, self-insured retentions for poor security posture
- Potential coinsurance percentages added for ransomware
- Further reduction of ransomware limit

#### Requirement to evidence security posture:



- MFA
- Data Backups
- Endpoint Detection
- Employee Education & Training Programs



#### State of the Cyber Market



#### **Europe May Surpass the United States as the Most Targeted Region for Ransomware**

Ransomware continues to have a significant impact on businesses across the globe. While reports show that the U.S. is the country most targeted by ransomware attacks worldwide, small indicators show that ransomware activity is decreasing in the United States and growing in other regions. In Europe. the number of victims is increasing, and if that increase continues. Europe will likely become the most targeted region in 2023. The United States has been very outspoken on policies, sanctions and the potential of a response in the cyber domain concerning ransomware and other attacks. However, it is hard to conclude if the more aggressive stance on ransomware actually deters attacks.



#### More Attacks by Non-Organized Attackers and Non-Nation State Attackers

In 2023 we expect to see more intrusions conducted by non-organized attackers and non-nation state attackers. More of the threat actors operating out of North America and Europe will likely be younger, and conducting intrusion operations not because they're interested in making money specifically, or because governments have tasked them with doing it, but because they want to be able to brag to their friends or boast online that they've hacked into and brought embarrassment to prominent organizations. While they will be happy to achieve financial gain, that may not necessarily be their lead motivation.



#### More Extortion, Less Ransomware

Historically, cyber criminals have used ransomware to monetize access into a victim's network. Due to several high-profile and visible breaches last year, organizations see mitigating brand damage as a much more compelling reason to pay a ransom than regaining access to encrypted systems. Over the next year, we will continue to see criminals rely on extortion, but actual ransomware deployments may decline. Ransomware-as-a-service(RaaS) providers will modernize their software to focus on data exfiltration and 'leak sites' for public shaming.

Cyber Liability insurance providers are requiring clients to have better controls around cyber exposure. Implementation of MFA is now a requirement for most insurance carriers.

Cyber liability pricing is beginning to smooth out in terms of pricing.

We are now seeing carriers base pricing on underwriting a specific risk, rather than a broad-brush approach to pricing which was needed in the past to achieve carrier profitability in this coverage line.

We are still seeing increases over expiring for clients with losses, poor cyber hygiene, or higher exposures.

Clients with unfavorable controls will see modifications to their program. Carriers will exclude cyber extortion, impose co-insurance, or exclude coverages like computer hardware replacement, and reputational loss.



#### **Spotlight: Cyber Liability**

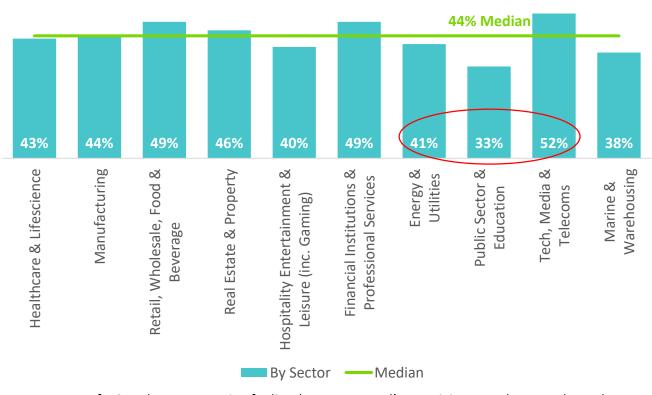


#### Marketplace stabilizing after several years of dramatic claims development.

#### Security standards across the marketplace:

- Multi-factor authentication
- Well managed end point detection
- Well managed RDP connections VPN, MFA, etc.
- Back Ups
- Planning and Training (and Frequency)
- Reasonable patching schedule/plan
- Plan or adequate measures in place to protect end of life software
- IT Security Budgets
- Email Security
- Identity Access Management
- Service Account Management

#### Sector view on resilience to cyber risk



Percentage of US and UK companies feeling 'very prepared' to anticipate and respond to cyber risk in 2021. Median line indicates the mid-point of the data set across all industries surveyed.



## Workers Compensation Leading Concerns





#### **Rate Expectations: Account Specific**

#### Trends to Watch:

- Increase in state legislative bills filed for Presumptive and PTSD benefits
- Proposed bill (NY) covering Opioid-related deaths if prescribed during work comp claim
- Emerging case law (MN) precedent for public safety survivor benefits if suicide linked to PTSD
- COVID covered claims for 'long COVID' or death benefits



Wage Inflation's impact on premiums & Medical Expense Inflation



**Underwriter Concerns: Per Occurrence exposure to Cat loss** 



Remote Work: Out of State employees & Impact on productivity and compliance



**Investment Yield on Long Tail Coverage** 





Estimated Year over Year Total Cost Results As of 5-2-23									
Excess Liability	Total Cost 2022	<b>Est. Cost 2023</b>	Change -						
Limit	40,000,000	40,000,000	-	0%					
Self-Insured Rentention	750,000	750,000	-	0%					
\$10MM - Great American	525,033	630,040	105,007	20%					
\$20MM - Berkley National	351,752	422,102	70,350	20%					
Arch \$5MM Part of \$20MM	62,600	75,120	12,520	20%					
\$10MM - Great American Custom	100,000	120,000	20,000	20%					
Total Cost	1,039,385	1,247,262	207,877	20%					
Excess Workers' Comp	<b>Total Cost 2022</b>	<b>Est. Cost 2023</b>	Change -						
Payroll	81,881,299	83,569,100	1,687,801	2%					
Limit	Statutory	Statutory	N/A	N/A					
Rate Per \$100	0.38	0.47	0.09	24%					
Self-Insured Retention	1,000,000	1,000,000	-	0%					
Total Cost	309,659	391,000	81,341	26%					
Property (incl. B&M)	<b>Total Cost 2022</b>	<b>Est. Cost 2023</b>	Change -						
Values	2,378,199,811	2,544,673,798	166,473,987	7%					
A/R Limit	1,000,000,000	1,000,000,000	-	0%					
Flood Limits	25M/25M	25M/25M	-	0%					
A/R Deductible	500,000	500,000	-	0%					
Flood Deductible	1,000,000	1,000,000	-	0%					
Boiler Limit/Deductibles	100M/25k/Vrs	100M/25k/Vrs	-	0%					
Rate Per \$100	0.082	0.12	0.03	40%					
Total Cost (Including Comm Rebate)	1,767,215	2,617,059	849,844	48%					
Earthquake	<b>Total Cost 2022</b>	<b>Est. Cost 2023</b>	Change -						
Values	116,727,428	124,898,348	7,636,374	7%					
Limits	25,000,000	25,000,000	-	0%					
Rate Per \$100	0.11	0.14	0.01	10%					
Deductibles	5% \$5MM Min	5% \$5MM Min	-	0%					
Total Cost	128,546	173,054	44,508	35%					
Total Cost - Board Items	3,244,805	4,428,376	1,183,571	36%					



