

CASUALTY ACTUARIAL AND STATISTICAL (C) TASK FORCE

November 2022

Society of Actuaries (SOA) Actuarial Research and Education Update

- **Highlights of Recent Research Reports**
- *Actuarial Weather Extremes*
 - Reports that Identify and examine unusual or extreme single-day or multi-day weather events
 - <https://www.soa.org/resources/research-reports/2019/weather-extremes/>
 - Recent Special Reports include:
 - **Hurricane Ian**
 - <https://www.soa.org/4a8b02/globalassets/assets/files/resources/research-report/2022/weather-extremes-oct-2022.pdf>
 - **Heavy U.S. Precipitation: July 26-29, 2022**
 - <https://www.soa.org/4a1965/globalassets/assets/files/resources/research-report/2022/us-precipitation-july-2022.pdf>
 - **U.S. Heat Wave: June 13-15, 2022**
 - <https://www.soa.org/49f0fc/globalassets/assets/files/resources/research-report/2022/us-heatwave-june-2022.pdf>
- *A Practical Guide for Working with Weather Datasets*
 - The first in a series of upcoming papers that serve as a practical guide for actuaries and researchers who wish to analyze weather datasets. This first paper provides an overview of the main types of weather datasets available for assessing climate risks.
 - <https://www.soa.org/resources/research-reports/2022/practical-guide-working-weather-datasets/>
- *Cyber Risk Modeling Methods and Data Sets*
 - This report reviews and summarizes the variety of current literature available on cyber insurance and risk management, and provides a reference for practitioners to use in their work.
 - <https://www.soa.org/resources/research-reports/2022/cyber-risk-modeling/>
- *Examining Auto Loss Trends through the COVID Pandemic*

- The Society of Actuaries Research Institute, the American Property Casualty Insurance Association and the Casualty Actuarial Society sponsored this report examining how the COVID-19 pandemic affected the personal auto insurance industry claim costs, including the influence of miles driven and the importance of rental car costs and replacement part inflation on claim severity.
- <https://www.soa.org/resources/research-reports/2022/auto-loss-trends-covid/>
- **Development of the SOA Climate Risk Certificate Program**
 - Open for enrollment in early 2023
 - Participants in the program will gain knowledge on qualitative and quantitative measurement of risks due to extreme climate events and will hone their ability to communicate insights about potential climate impacts.
 - <https://www.soa.org/resources/announcements/press-releases/2022/milliman-climate-risk/>
- **Ethical and Responsible Use of Data and Predictive Models Certificate Program**
 - www.soa.org/ERUcert