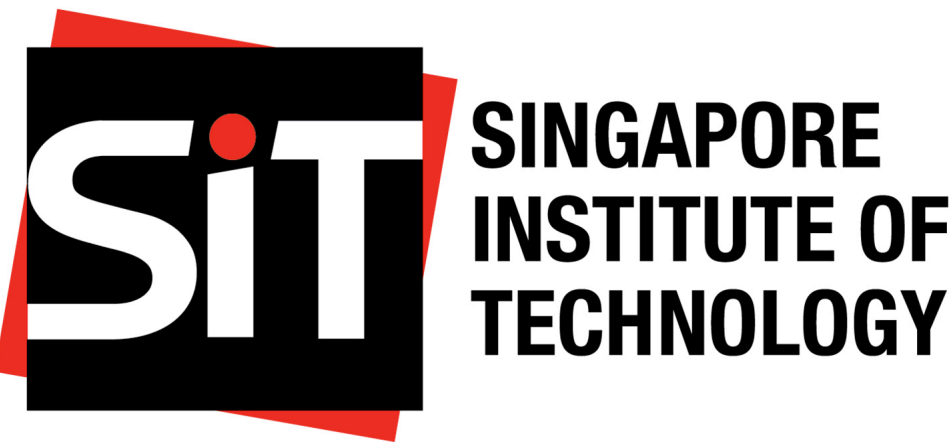


Visualizing Billion-Dollar Disasters in the USA (1980–2024)

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INTRODUCTION

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PREVIOUS VISUALIZATION

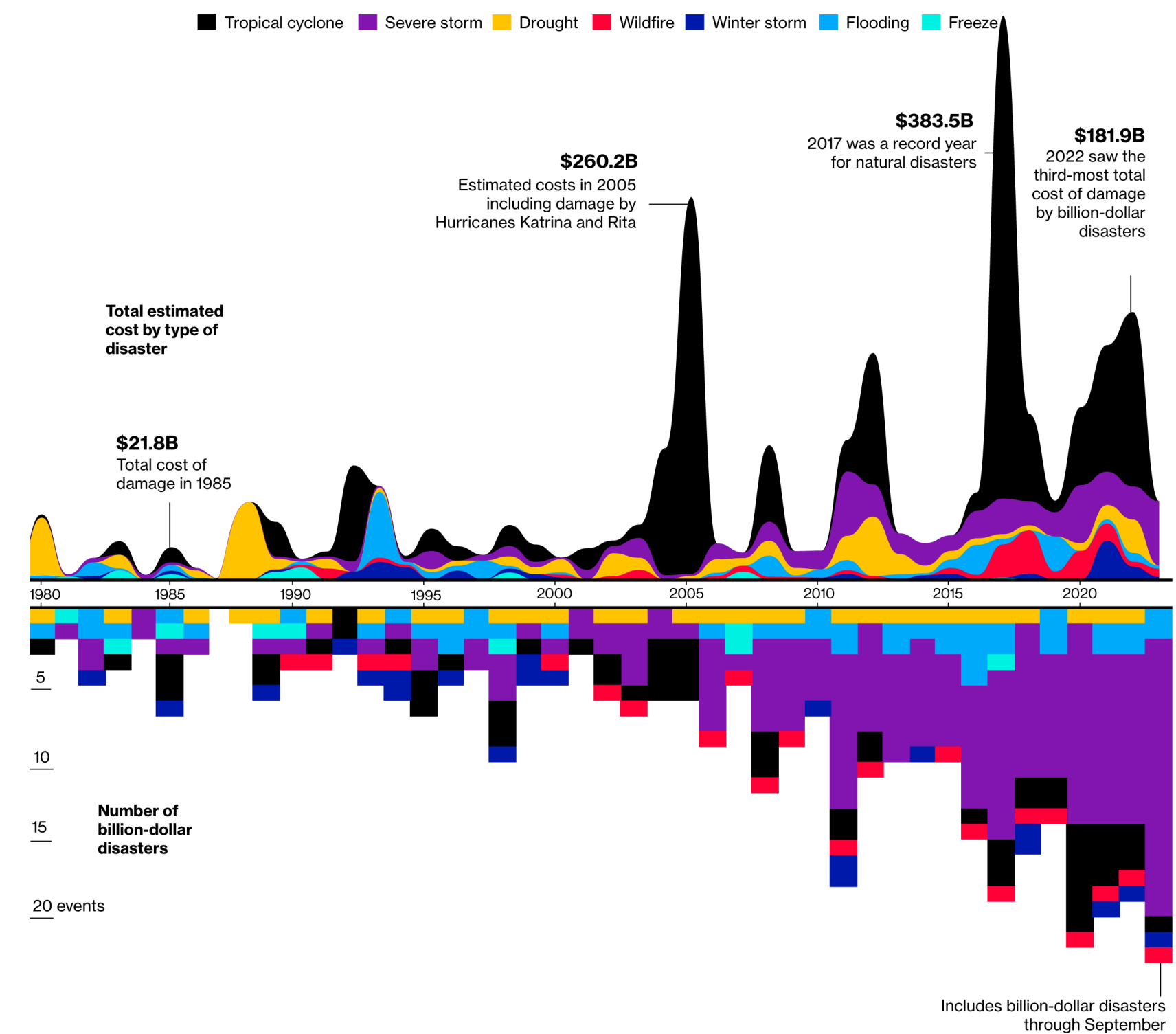


Figure 1: Frequency and Estimated Costs of Billion-Dollar Disasters in the USA by year, published by Bloomberg.

STRENGTHS

- ...
- ...

SUGGESTED IMPROVEMENTS

1. ...
2. ...

IMPLEMENTATION

Data

- ...
- ...

Software

We used the Quarto publication framework and the R programming language, along with the following third-party packages:

- *tidyverse* for data transformation, including *ggplot2* for visualization based on the grammar of graphics
- *knitr* for dynamic document generation

IMPROVED VISUALIZATION

Estimated Costs of Billion-Dollar Disasters in the USA by Year
Estimated Cost of Billion-Dollar Disasters in the USA (1980-2024)

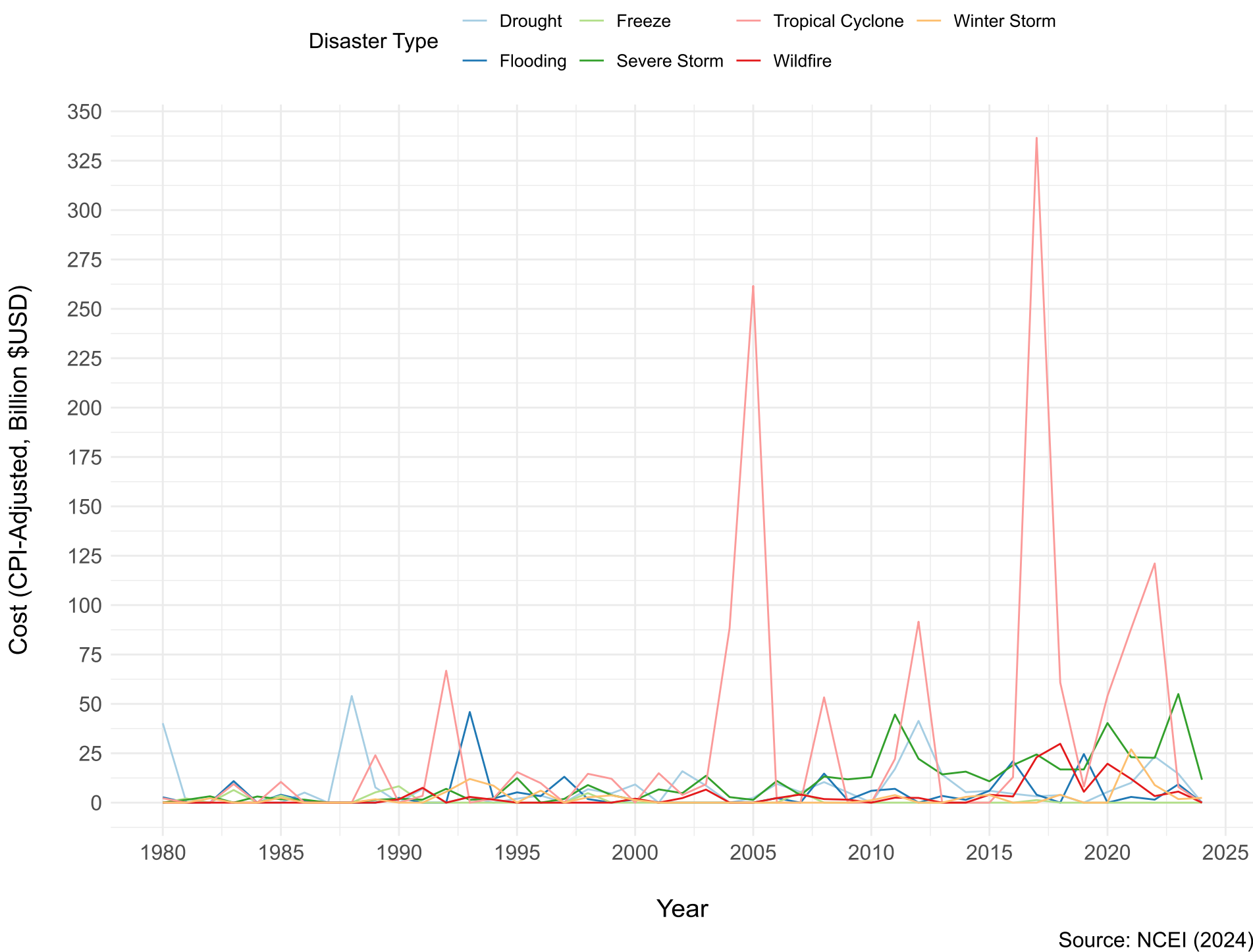


Figure 2: Revised visualization of Estimated Costs of Billion-Dollar Disasters in the USA by year.

Estimated Cost of Billion-Dollar Disasters in the USA (1980-2024)

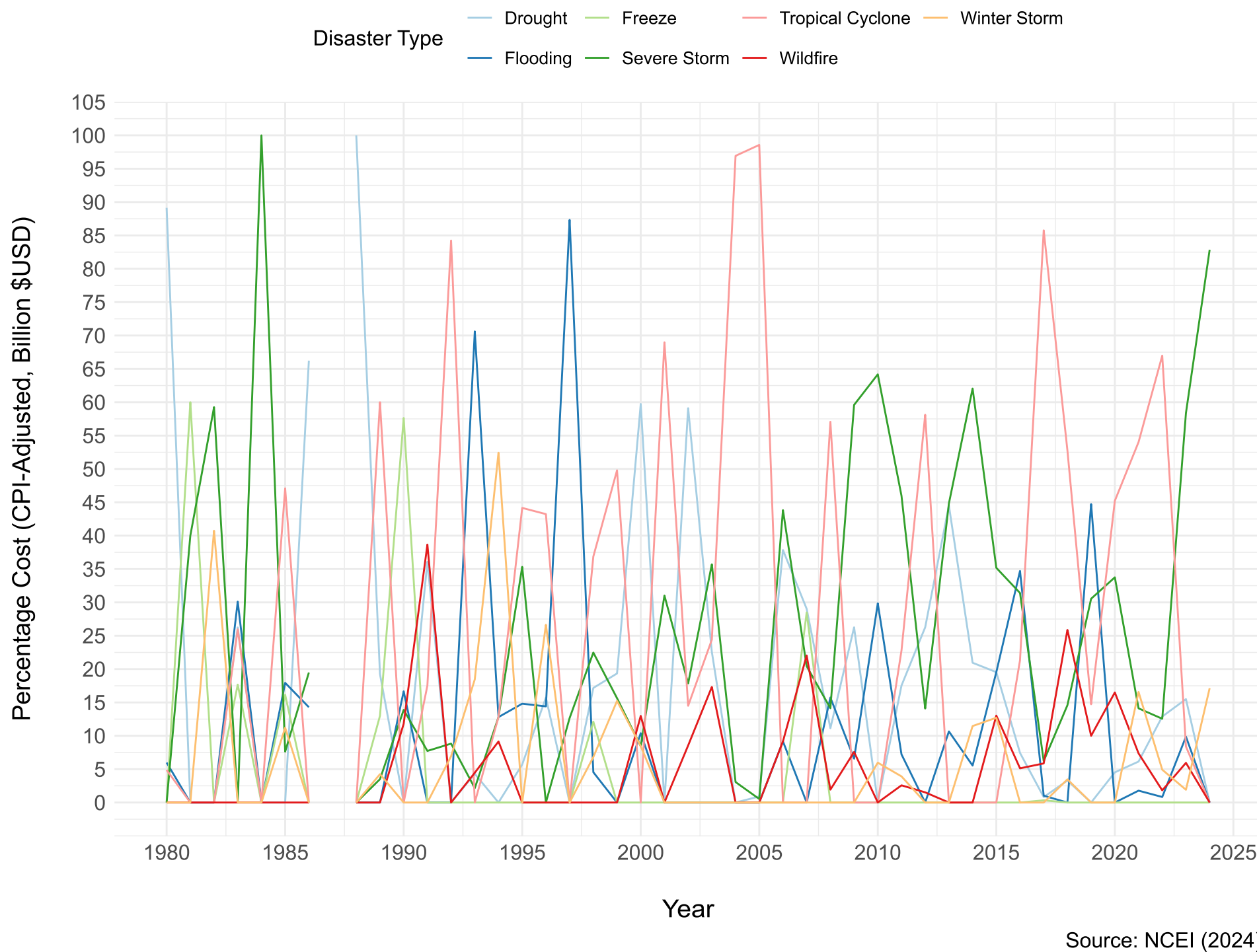


Figure 3: Revised visualization of Estimated Costs of Billion-Dollar Disasters in the USA by year.

Frequency of Billion-Dollar Disasters in the USA by Year

Warning: The `size` argument of `element_line()` is deprecated as of ggplot2 3.4.0. i Please use the `linewidth` argument instead.

Frequency of Billion-Dollar Disasters in the USA (1980-2024)

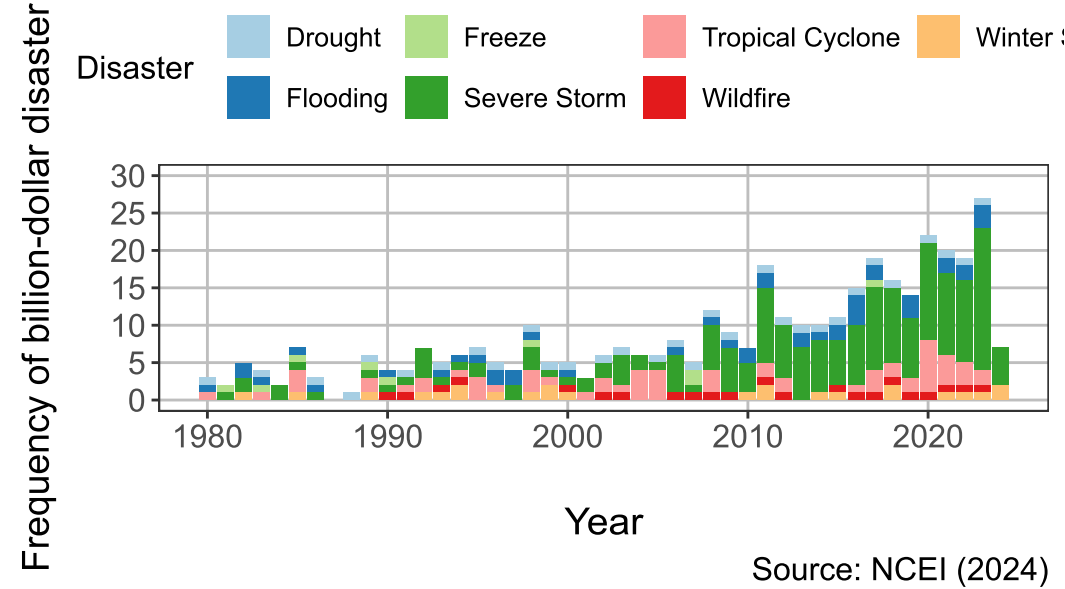


Figure 4: Revised Visualisation of Frequency of Billion-Dollar Disasters in the USA by year.

Combined Plot of Costs and Frequency

FURTHER SUGGESTIONS FOR INTERACTIVITY

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CONCLUSION

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