Reproducible report example
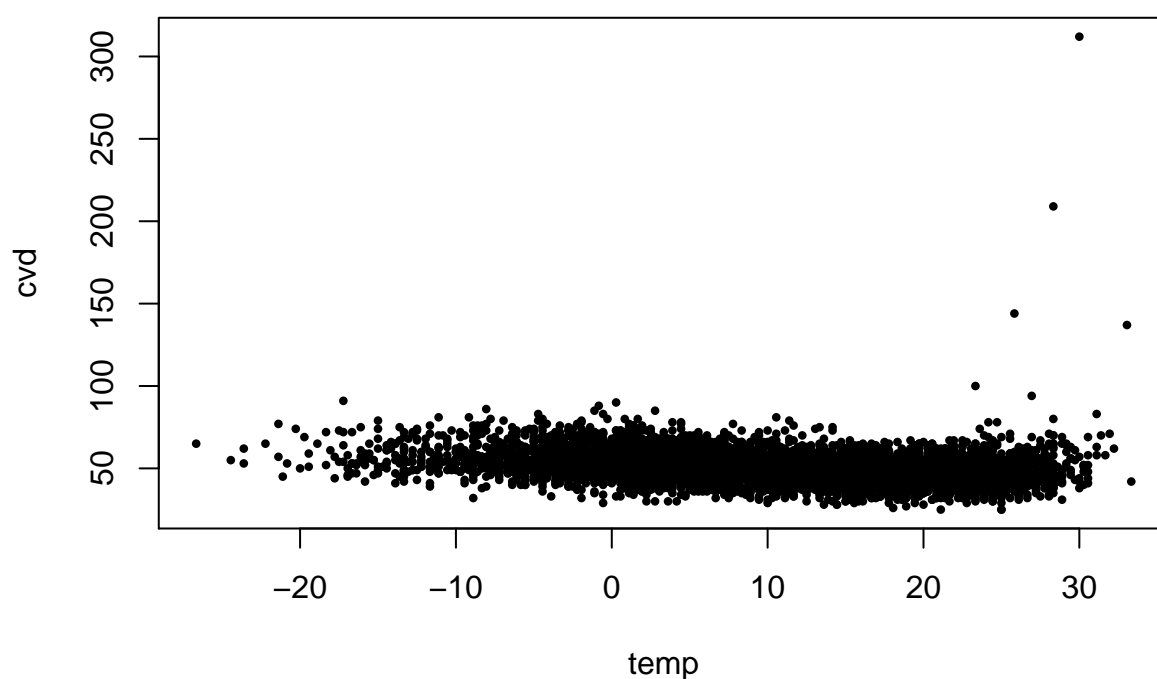
Ivan C. Hanigan

Some exploratory analysis

In this section we do some exploratory analysis of the NMMAPS data for deaths in Chicago 1987-2000. The code, messages and intermediary results are hidden in the resulting report document.
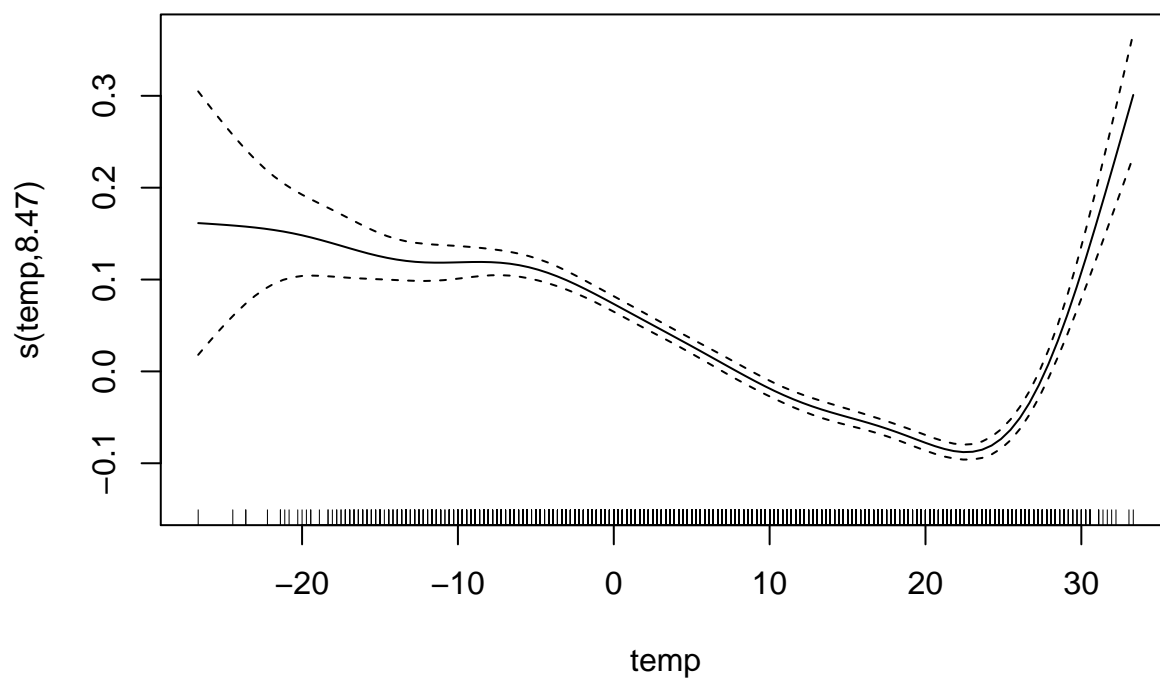
We made a simple scatter plot shown below

A scatter plot of daily temperatures against deaths

We ran some exploratory models. A Poisson GAM with smooth functions on temperature and time was compared to a linear fit on temperature.

The exposure−response function estimated using MGCV

The result can be automatically inserted to the text. This model has a delta AIC of -289.8 (smoothed minus linear term), suggesting much greater support for the inclusion of a smooth term to describe the exposure-response function of cvd deaths and temperature.

This concludes the exploratory analysis.