# Chapter 7. Which fit is fitter

## Producing, interpreting, and comparing CURE plots

In problem 1 of Chapter 6 you built a C-F spreadsheet with Segment Length and AADT as predictor variables in and estimated the parameters once by minimizing the sum of squared differences (SSD) between observed and fitted values and once by minimizing the sum of absolute differences (SAD). The results will serve as data here and are in ‘Problem 1, C-F.xls’.

The tasks are:

1. Using the fit when SAD is minimized, prepare CURE plots (without limits) for Segment Length, for AADT, and for Fitted Values.
2. What are the problems in these plots and how could they be remedied?
3. Prepare a bias-in-fit analysis for AADT patterned on Figure 7-6.
4. Prepare a CURE plot for Fitted values when SSD is minimized and compare is to that (prepared in a) when SAD is minimized. Which is the better fit?
5. Add 2σ limits to the CURE plot for Fitted Values prepared in a. Is it acceptable?