Work with Precipitation Data in R - 2013 Colorado Floods

{% include toc title="This Lesson" icon="file-text" %}

Several factors contributed to extreme flooding that occurred in Boulder, Colorado in 2013. In this lesson we will check our a report that provides some information about the event.

Learning Objectives

After completing this tutorial, you will be able to:

- List some of the components of a project that make it more easily re-usable (reproducible) to you when working with other people

What you need

You will need a computer with internet access to complete this activity.

A data report

Your colleague put together the very informative data report below. The topic of the report is the 2013 Colorado floods. Examine the report. Then answer the questions below.

1. What sources of data were used to create the plots?
2. How were the data processed?
3. How did your colleague generate this report? When was it last updated?
4. Who contributed to this report?
5. You'd like to make some changes to the report - can you do that easily? If you wanted to make changes, what process and tools would you use to make those changes?
6. What units are the precipitation data in?
7. Create a list of the things that would make editing this report easier.

My Report - 2013 Colorado Flood Data

Precipitation Data

A lot of rain impacted Colorado. See below.

Fall 2013 Precipitation

Let's check out the data for a few months.

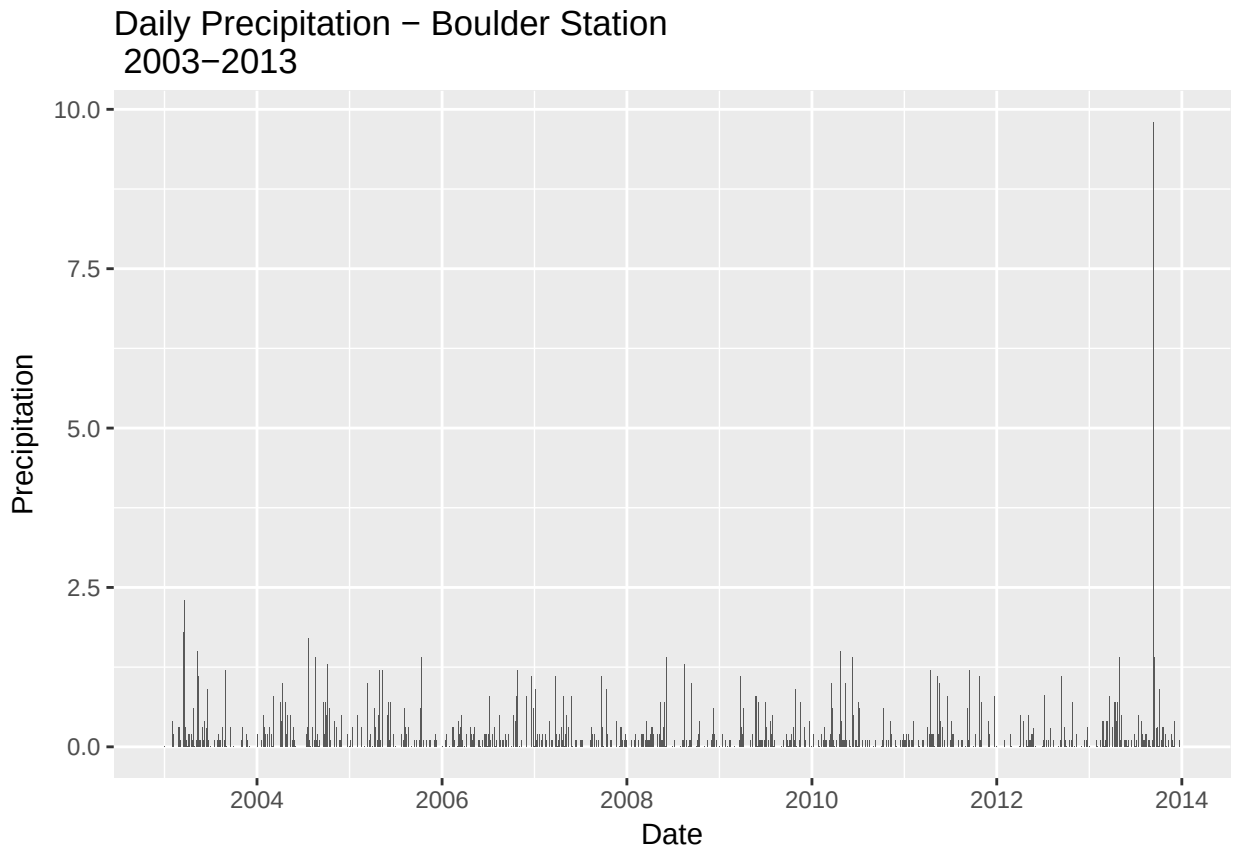

Figure 1: plot 1

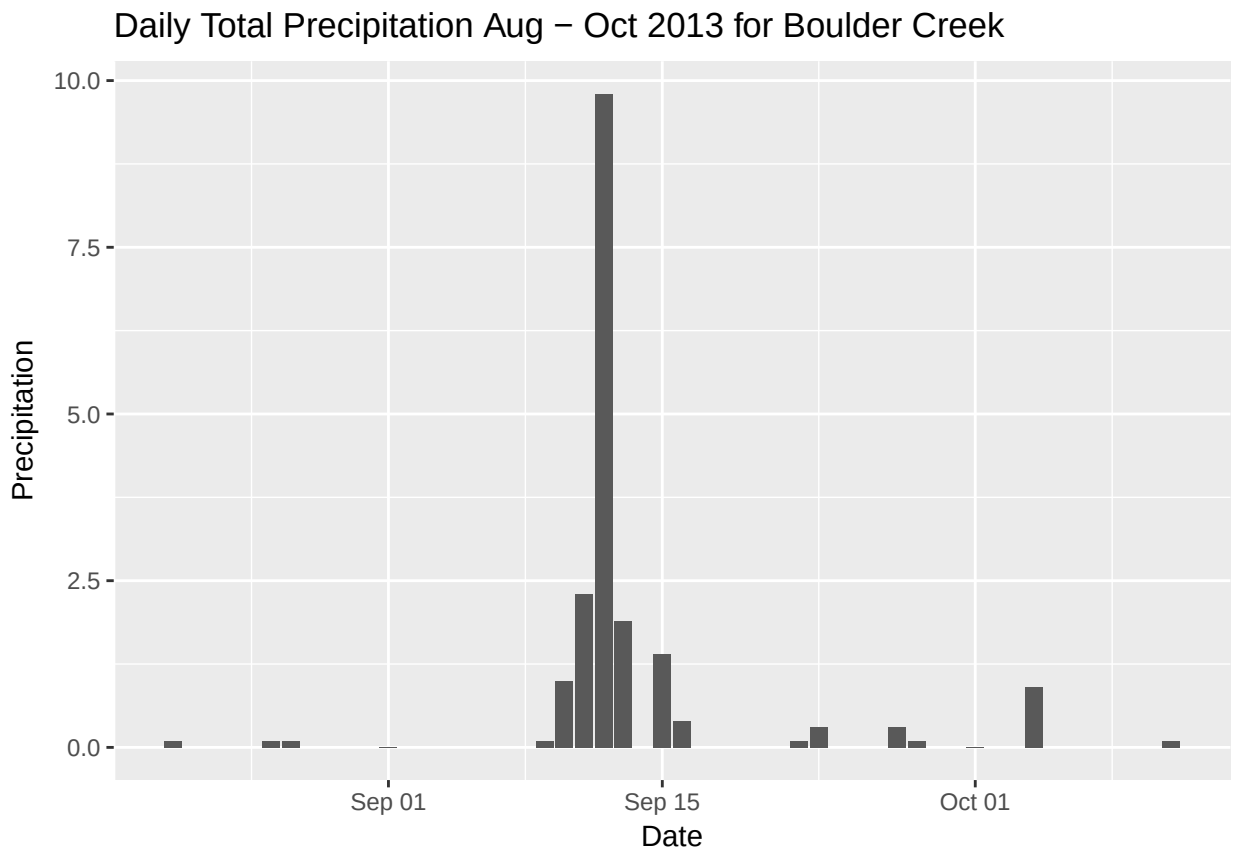

Figure 2: plot 2 precip

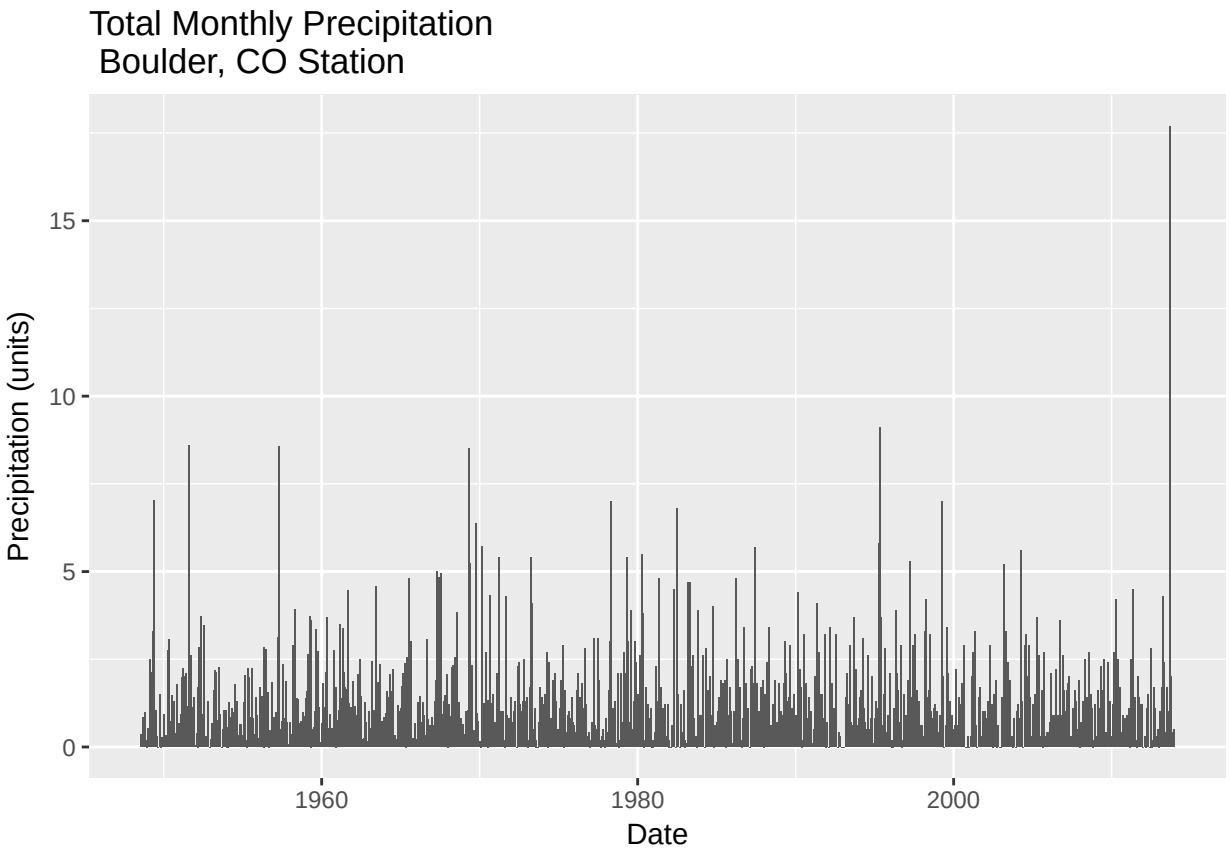

Figure 3: plot 3 discharge