1. **Given:**

Appendix C in the text.

**Required:**

A. What is the 25-yr, 24-hr rainfall event in inches for College Station, TX?
B. What is the 50-yr, 24-hr rainfall event in inches for College Station, TX?
C. What is the chance of a 25-yr rainfall event in any given year?

2. **Given:**

Figure 1.

**Required:**

A. Determine the total amount of rainfall that occurred from 8/7/98 to 8/14/98.
B. What was the rainfall amount recorded on Tuesday?
C. What was the rainfall intensity of the precipitation event on Tuesday?
D. If a farmer had a 400-acre field where this rain gage was located, how many gallons of water fell on his field on Tuesday?

3. **Given:**

The intensity-duration-frequency (IDF) curves in Figure 2.17 in the text.

**Required:**

A. Determine the rainfall intensity for a 20-minute rainfall event with a return period of 25-years.
B. What is the total amount of rain (in.) that would fall during this rainfall event?
Figure 1: Weighing bucket rainage chart.