One set of problems on the midterm examination uses data from the Madison public schools. The data is linked on the course web page in the file MadisonElementary.

A second set of problems uses the **SleepStudy** data set from the textbook. Variables in this data are described on pages 697–698 of the textbook and the data is available in the Lock5Data library in R.

The February 23, 2014 Wisconsin State Journal published data on all schools in the Madison Public School System, including 31 elementary schools. Here is a subset of the data.

##	school	highSchool	cap.2013	cap.2018	disadvantaged	proficient	
## 1	Allis	LaFollette	66	70	76.5	3.9	
## 2	Chavez	Memorial	95	114	26.5	44.9	
## 3	Crestwood	Memorial	84	82	43.1	52.3	
## 4	Elvehjem	LaFollette	93	81	34.4	40.3	
## 5	Falk	Memorial	76	68	73.4	20.0	
## 6	Franklin	West	91	85	20.7	50.8	

The variables are:

- school, which is the name of the elementary school;
- highSchool, which is the name of the high school that the elementary school eventually feeds into, one of East, La Follette, Memorial and West;
- cap.2013, which is the percentage of students enrolled relative to the capacity of the school in the 2013–2014 school year, as a percentage (which can exceed 100% if the school is overcrowded);
- cap.2018, which is the projected percentage of students enrolled relative to the capacity of the school in the 2018–2019 school year, as a percentage;
- disadvantaged, which is the percentage of students at the school that are economically disadvantaged; and
- proficient, which is the percentage of 4th graders at the school who read at the proficient or advanced levels for their age group.