Exploratory Data Visualization

In-class exercise:

In groups of four, plot the data in Table 1 to answer the following questions:

1) Do mortality rates change with air pollution concentration?
2) Does accounting for season change how you perceive the relationship between mortality and pollution?

Please make your plot large enough to present to the class.

Season	PM10 Concentration	Daily mortality (all causes)
fall	8	188
fall	8	192
fall	12	192
fall	19	194
fall	19	198
fall	23	202
fall	24	220
fall	30	230
spring	18	165
spring	18	179
spring	20	183
spring	25	200
spring	29	206
spring	31	211
spring	33	214
spring	33	214
summer	21	154
summer	25	159
summer	25	162
summer	30	165
summer	33	169
summer	35	176
summer	36	187
summer	40	195
winter	1	203
winter	3	209
winter	3	221
winter	7	222
winter	8	232
winter	14	241
winter	14	249
winter	15	250

Table 1. Simulated data of eight years of seasonal air quality, measured as particulate matter (PM10) and centered around the mean, and daily mortality rates in the United States.