

Toronto_60435_2019_Day182to188.csv

The results below are what the student results should look like for the Toronto_60435_2019_Day182to188.csv dataset used in CHM 135 Experiment 1.

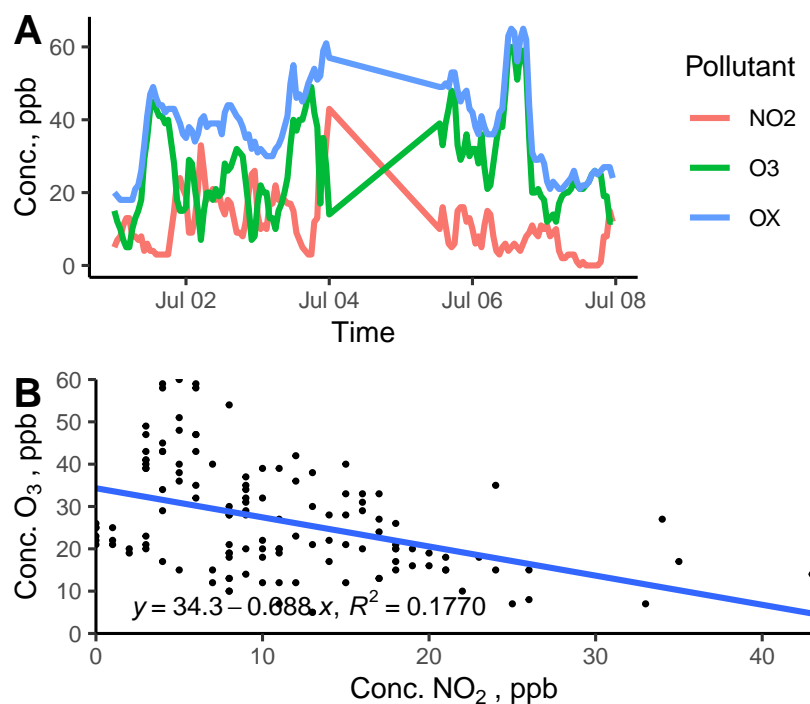


Figure 1: (A) Time series of pollutant concentration. There shouldn't be a linear regression on this plot, if students have done so please note it. (B) Correlation plot of O₃ vs. NO₂; the equation of the line is displayed in the lower left corner.

| Pollutant | mean | sd | median | min | max |
|----------------------|------|------|--------|-----|-----|
| NO ₂ | 10.9 | 7.9 | 9 | 0 | 43 |
| O ₃ | 26.8 | 12.9 | 23 | 5 | 60 |
| OX | 37.7 | 11.9 | 38 | 18 | 65 |
| NO ₂ _8hr | 11.0 | 6.0 | 10 | 0 | 25 |
| O ₃ _8hr | 27.5 | 10.7 | 26 | 9 | 57 |
| OX_8hr | 38.4 | 10.6 | 39 | 18 | 62 |

Table 1: Summary statistics for 1 hr and 8hr concentration of pollutants, all concentrations are in ppb.

Notes on results:

Students are **not** expected to calculate *mean*, *sd*, and *median* of 8 hr averages. If student *sd* values differ slightly from provided *sd* values, they may have used the *STDEV.P* function rather than *STDEV.S* in Excel calculations. Do not subtract points, but make a note of it.