

# Beijing PM2.5 Data Set

The data is about the severity of PM2.5 pollution in Beijing, China, which is quantified with a variety of statistical measures. The data series run from 1st, Jan. 2010 to 31st, Dec 2014, contain following modes :

- **Quantity :**

1. **Year** ( range from 2010 to 2014 )
2. **Month** ( from 1 to 12 )
3. **Day** ( from the beginning of each month to the end, range from 1 to 28/29/30/31 — due to the different months)
4. **Hour** ( from 0 to 23, the data is hourly recorded )
5. **Pm2.5** ( concentration of Pm2.5, with the unit  $\mu\text{g}/\text{m}^3$ , missing valuables written as NA )
6. **DEWP** ( dew point )
7. **TEMP** ( temperature )
8. **PRES** ( pressure, with the unit hPa )
9. **lws** ( Cumulated wind speed, with the unit m/s )
10. **Is** ( Cumulated hours of snow )
11. **Ir** ( Cumulated hours of rain )

- **Quality**

1. **cbwd** ( combined wind direction)  
the directions can be grouped into 5 broad categories:
  - Northwest (NW), which includes W, WNW, NW, NNW and N
  - Northeast ( NE), for NNE, NE and ENE
  - Southeast ( SE), covering E, SE, ESE, SSE, S
  - Southwest ( SW), having SSW, SW, WSW
  - cv for calm and variable

Our work is to study the effect of different factors on concentration of PM2.5 then get the best solution to reduce the pollution.

The link to the data information : <http://archive.ics.uci.edu/ml/datasets/Beijing+PM2.5+Data>