



DSC680 - Applied Data Science

24.07.21 Week Seven

Milestone Three

Professor Iranitalab

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```
# 06.02.01.01
# read csv
# assign variable
# dt01

dt01_Air_Quality_Seoul_____00 = pd.read_csv('Air_Quality_Seoul.csv')
```

```
# 06.02.09.01
# read csv
# assign variable
# dt03

dt03_measurement_info_____00 = pd.read_csv('Measurement_info.csv')
```

```
# 06.02.09.02
# read csv
# assign variable
# dt04

dt04_measurement_info_item__00 = pd.read_csv('Measurement_item_info.csv')
```



```
# 06.02.17.01
# read csv
# assign variable
# dt06

dt06_dt01_____00 = pd.read_csv('106_DT_106N_03_0200045_20240703151242.csv')

# 06.02.17.02
# read csv
# assign variable
# dt07

dt07_dt02_____00 = pd.read_csv('106_DT_106N_03_0200076_20240703151123.csv')

# 06.02.17.03
# read csv
# assign variable
# dt08

dt08_summary_measurement_____00 = pd.read_csv('Measurement_summary.csv')

# 06.02.17.04
# read csv
# assign variable
# dt09

dt09_nat_emissions_____00 = pd.read_csv('National_Air_Pollutant_Emissions_20240703151513.csv')

# 06.02.17.05
# read csv
# assign variable
# dt10

dt10_seoul_air_____00 = pd.read_csv('seoul_air_1988_2021.csv')

# 06.02.17.06
# read csv
# assign variable
# dt11

dt11_seoul_ave_air_____00 = pd.read_csv('SeoulHourlyAvgAirPollution.csv')
```



```
# 06.02.23.01  
# read csv  
# assign variable  
# dt12
```

```
dt12_streets_____00 = pd.read_csv('116_DT_MLTM_962_20240712093545.csv')
```

```
# 06.02.23.02  
# read csv  
# assign variable  
# dt13
```

```
dt13_ave_traffic_____00 = pd.read_csv('Average_Daily_Traffic_by_Road_and_Vehicle_Types_20240712093400.csv')
```

```
# 06.02.23.03  
# read csv  
# assign variable  
# dt14
```

```
dt14_yearly_____00 = pd.read_csv('Yearly_ADT_20240712093451.csv')
```

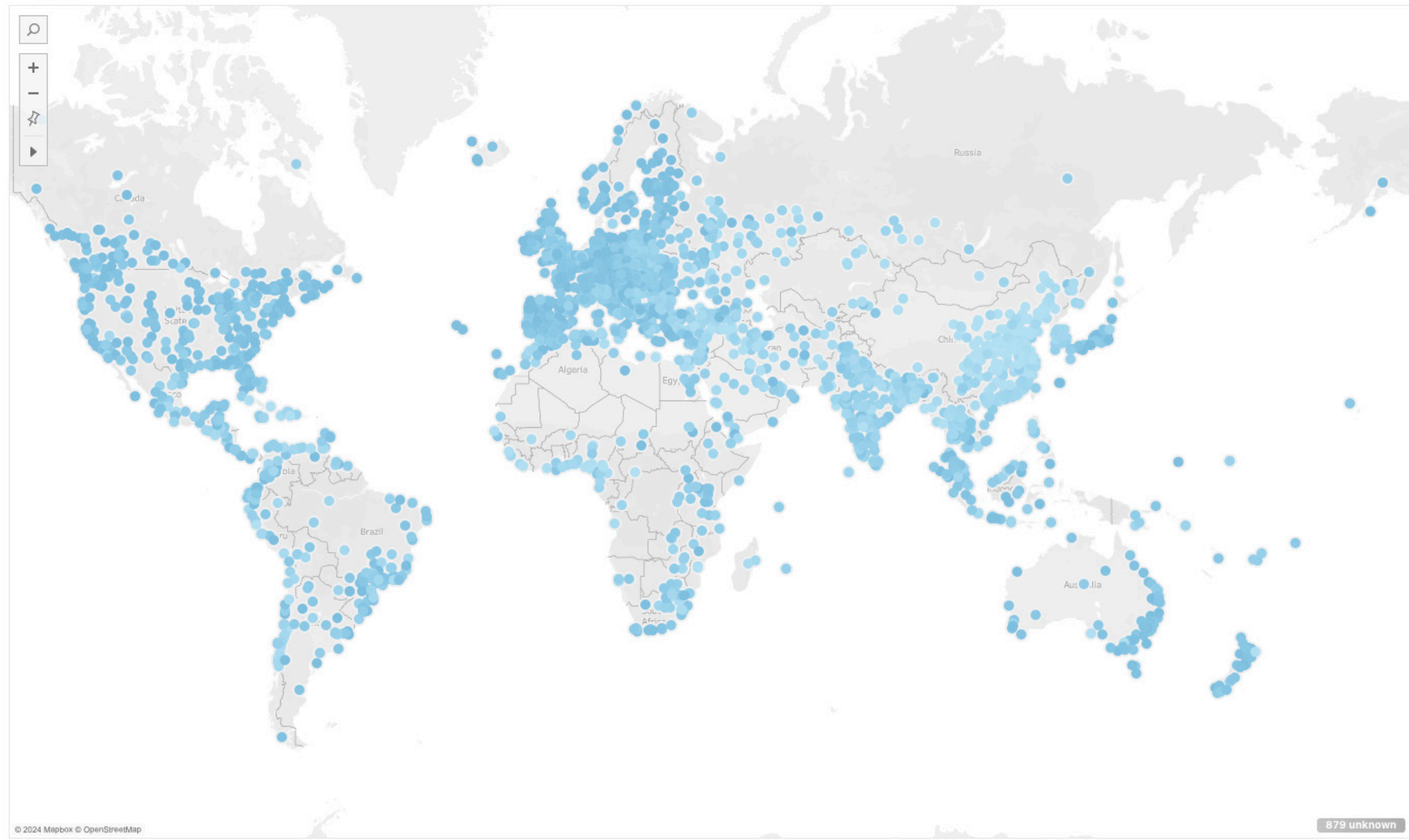
```
dt15_spatial_____00 = pd.read_csv('input_data_spatial_panel.csv')
```

```
dt16_emissions_____00 = pd.read_csv('car_fuel_emissions.csv')
```

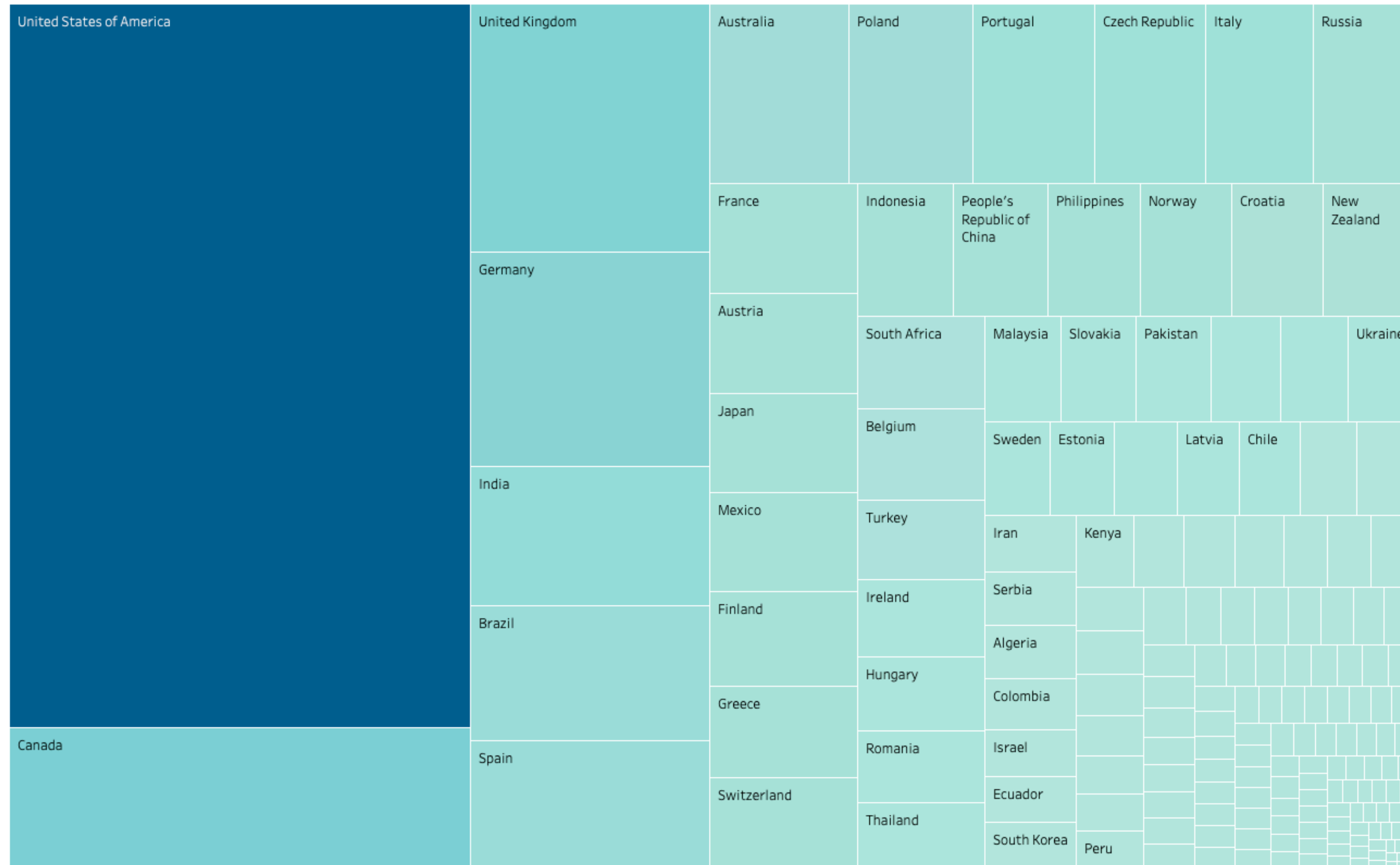
Area 01 - Air Quality



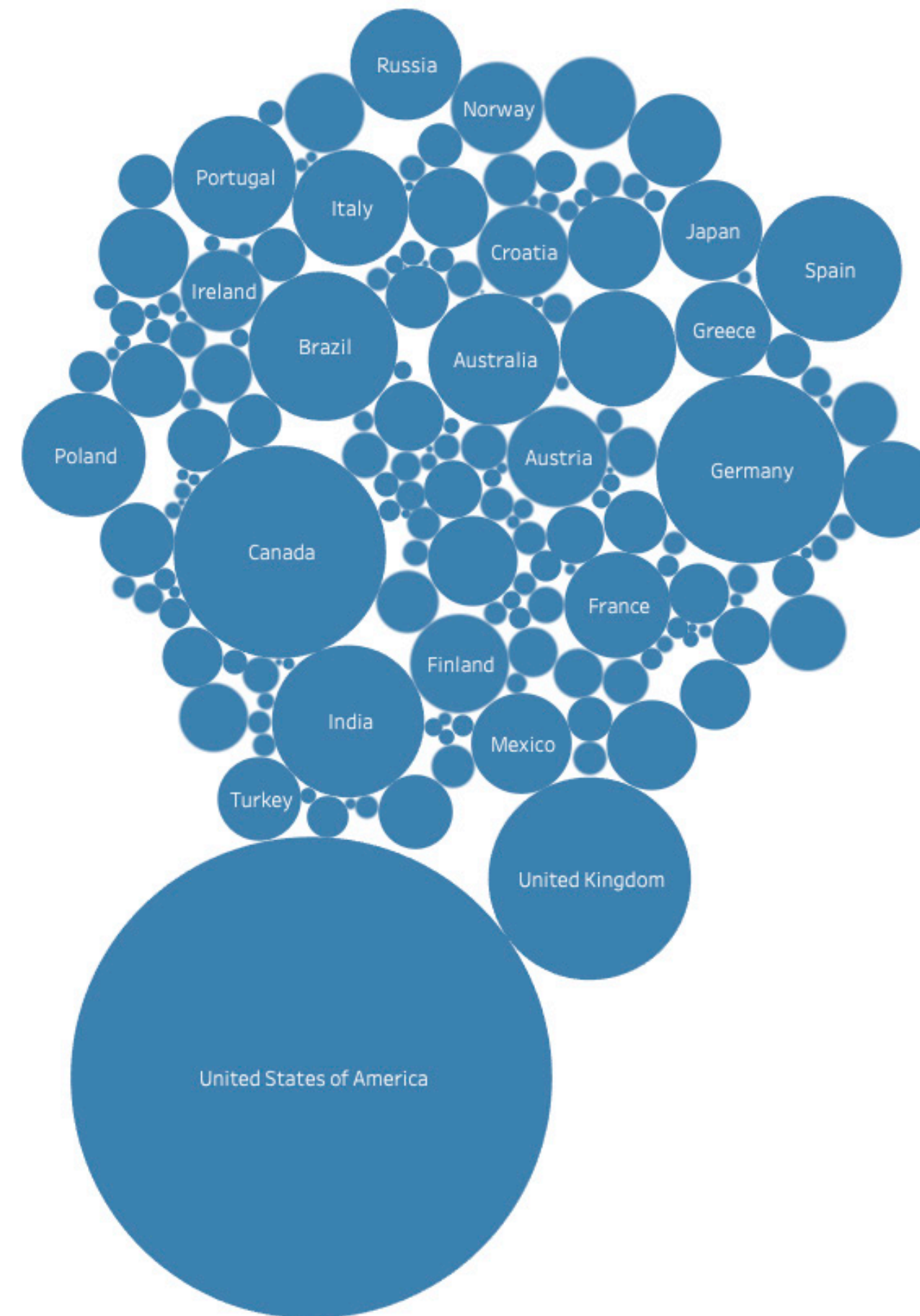
Area 02 - Air Quality

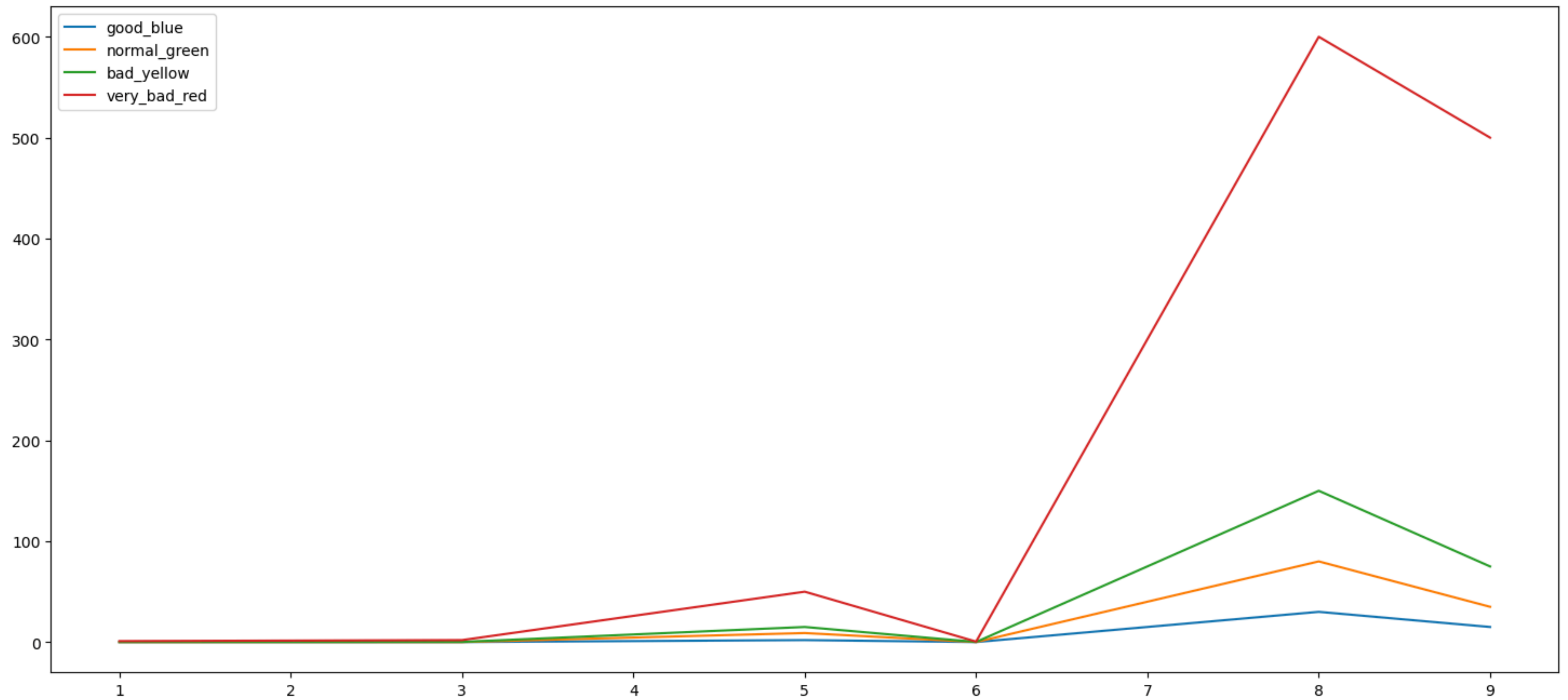


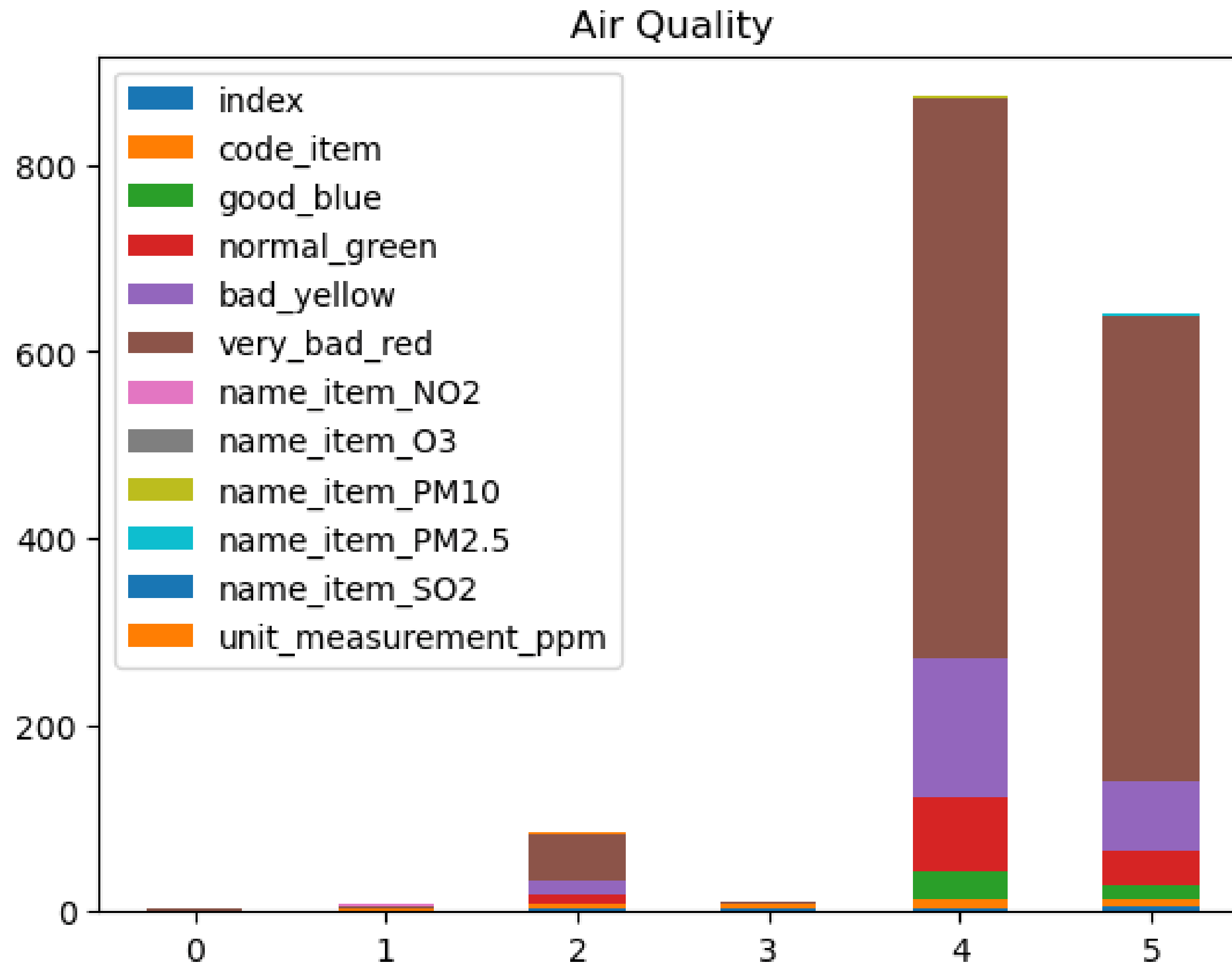
Tree - Air Quality



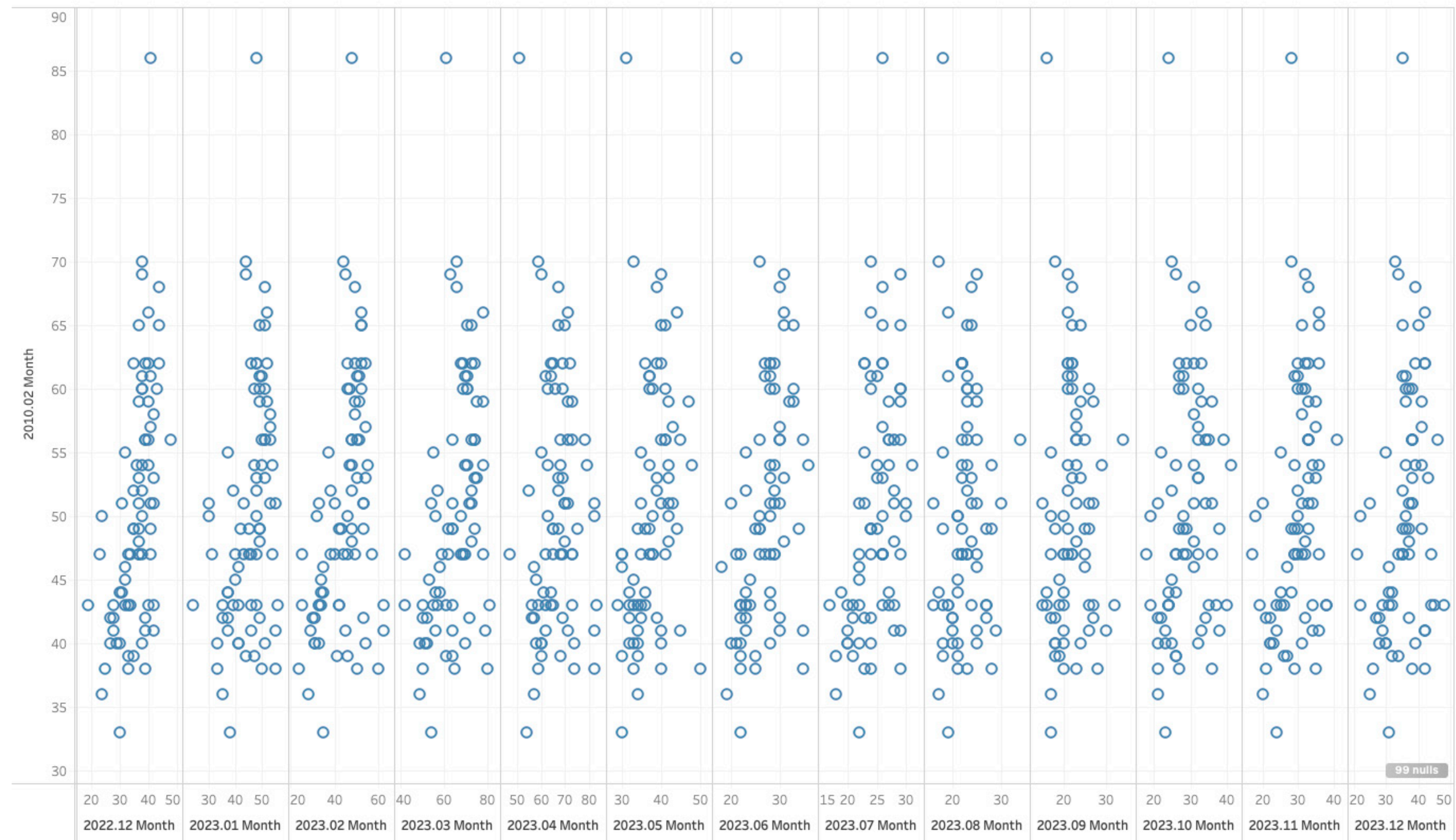
Bubble - Air Quality



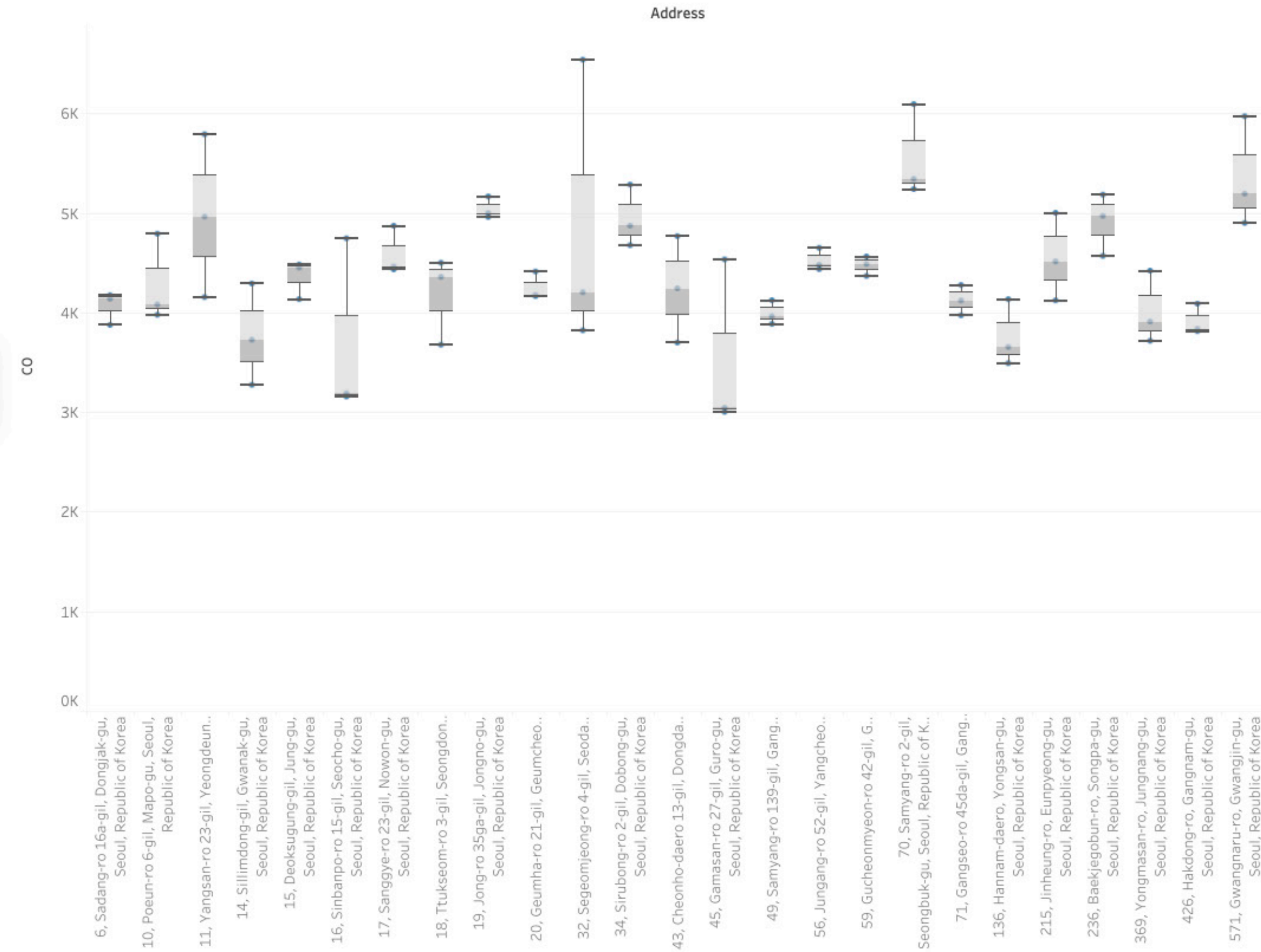


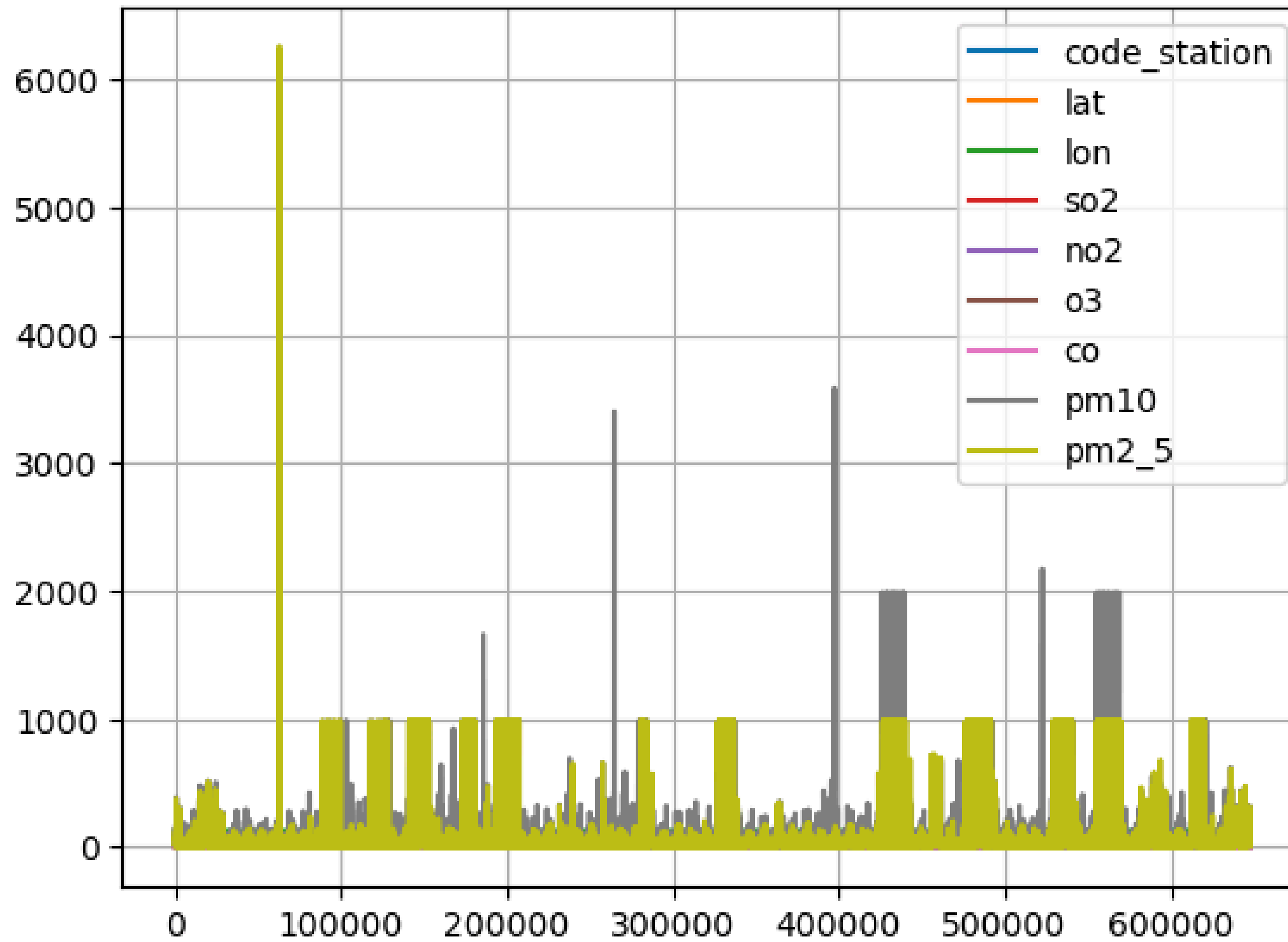


dt06

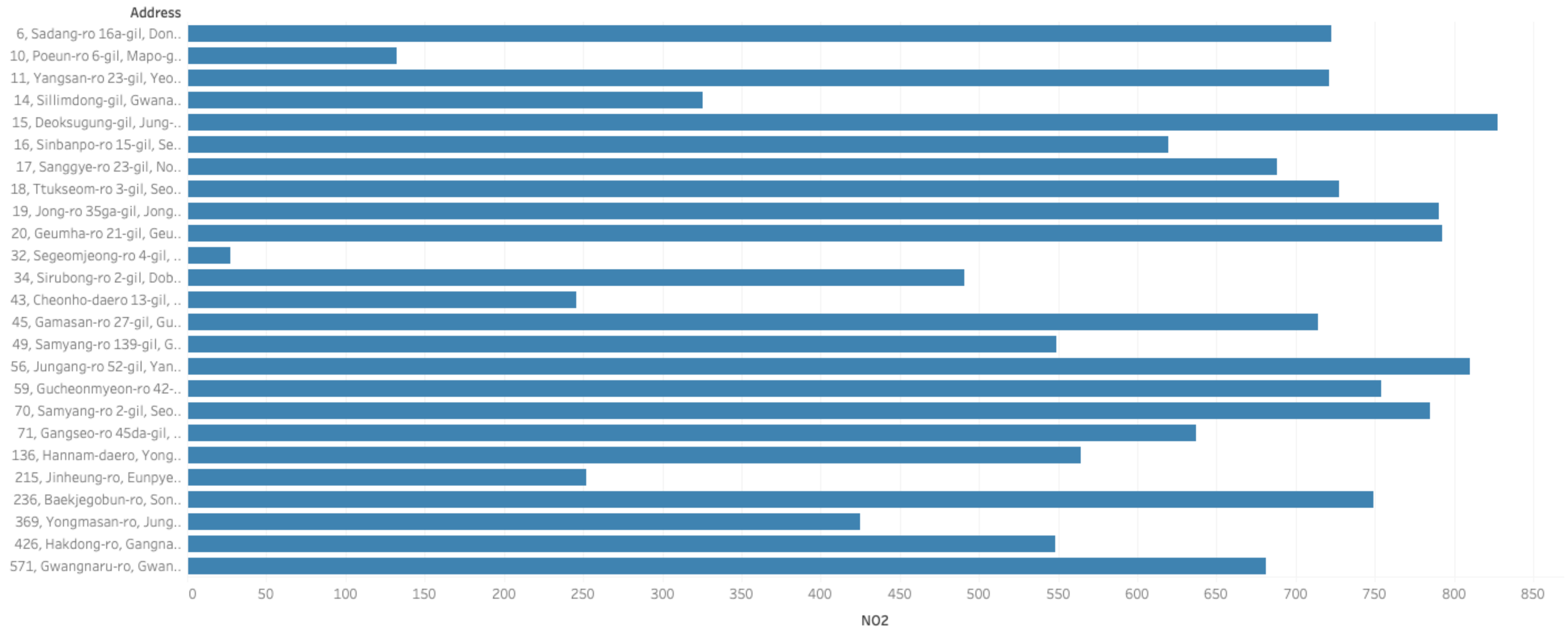


dt08 - box

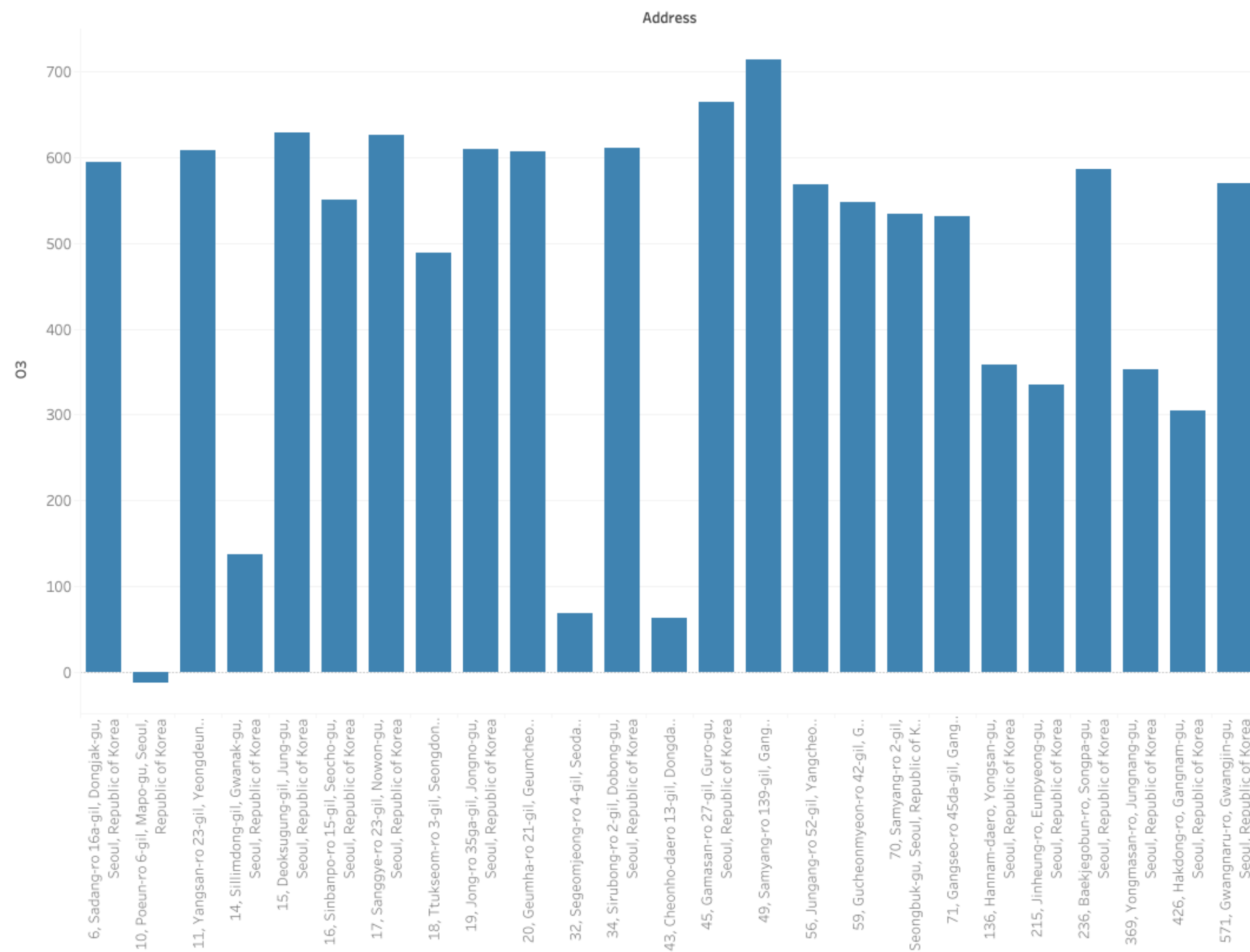




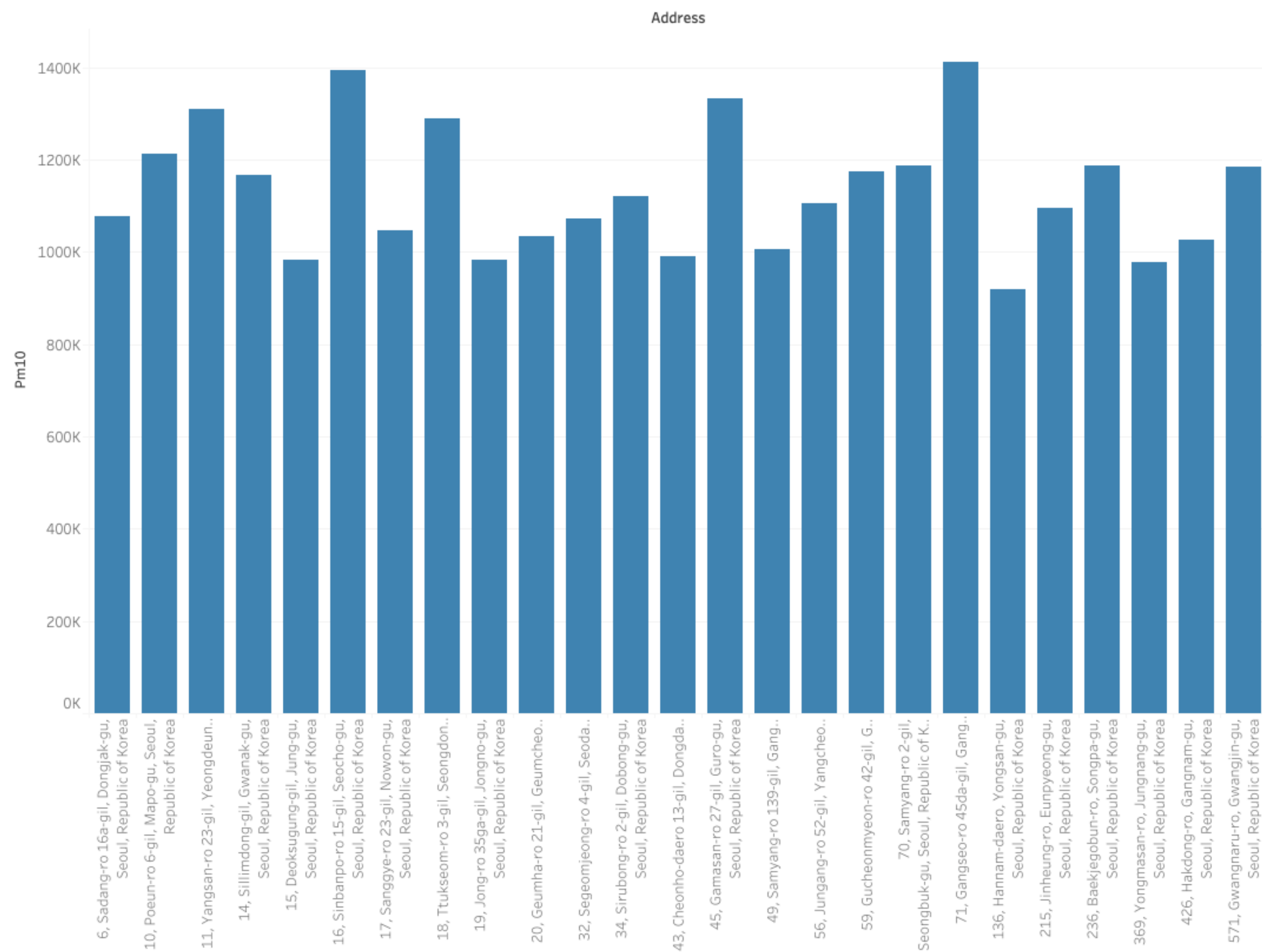
dt08 - bar - NO2



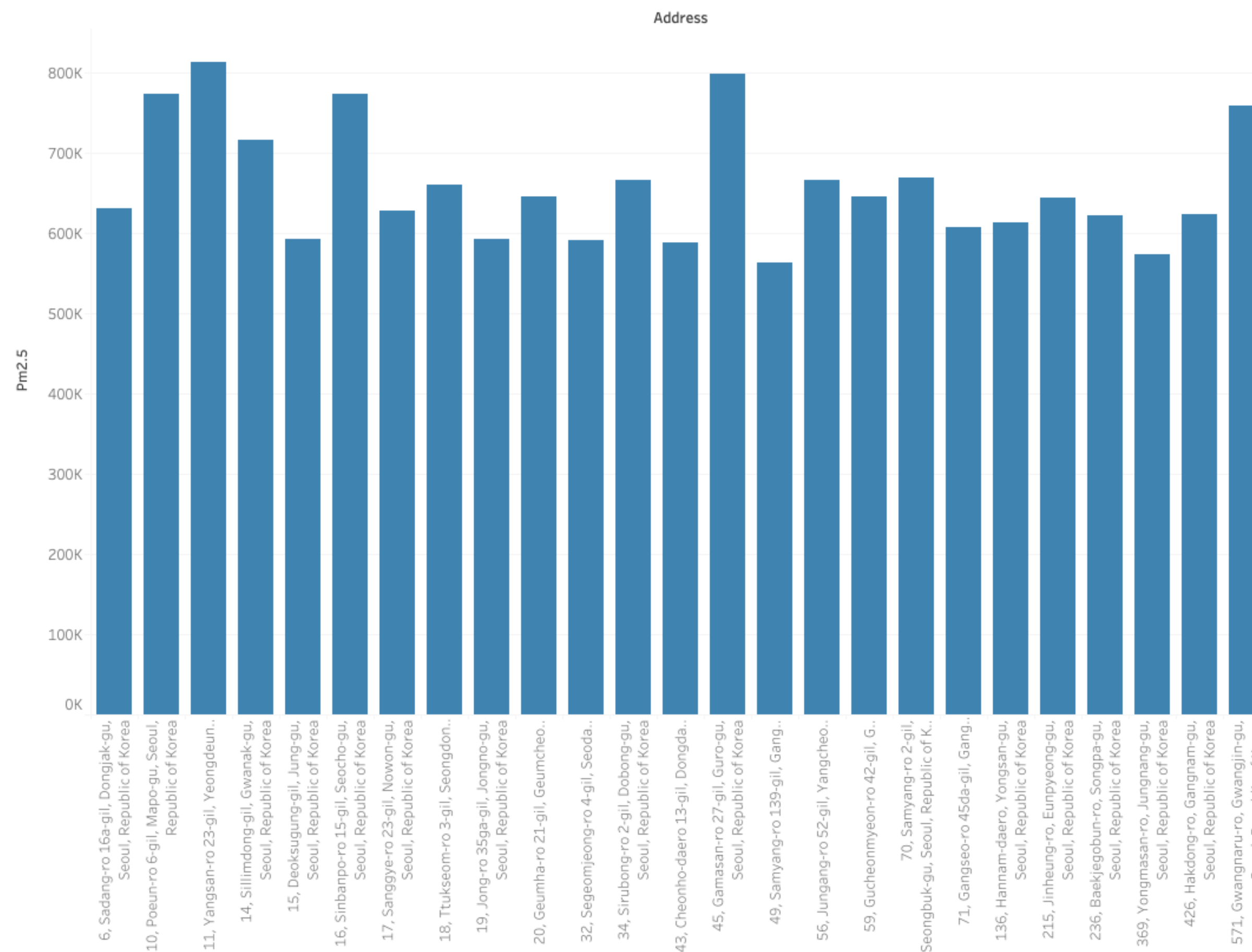
dt08 - bar - 03



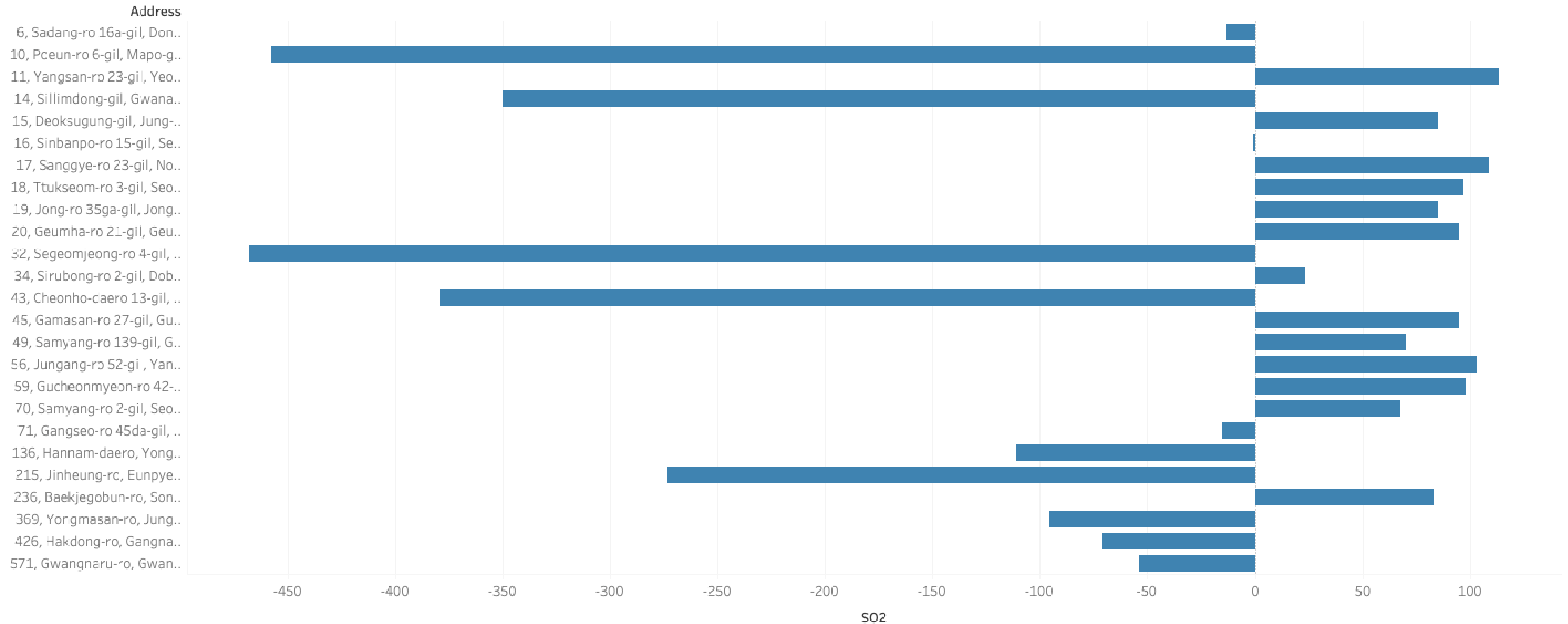
dt08 - bar - large particles



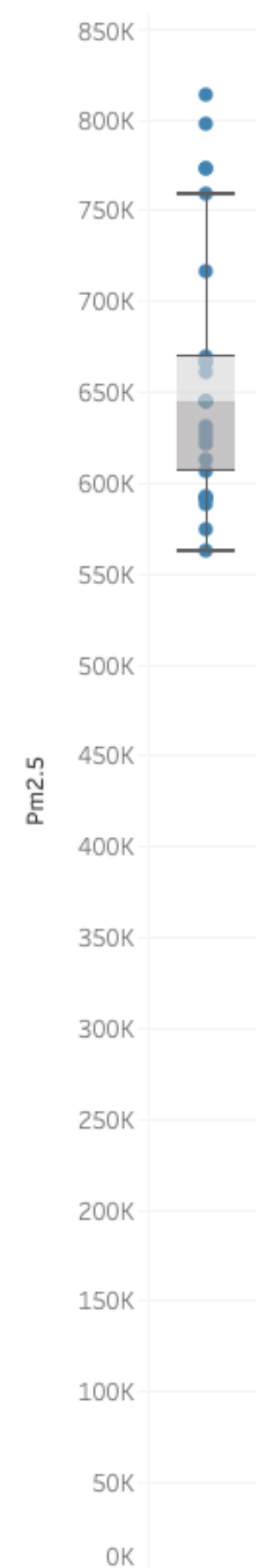
dt08 - bar - small particles



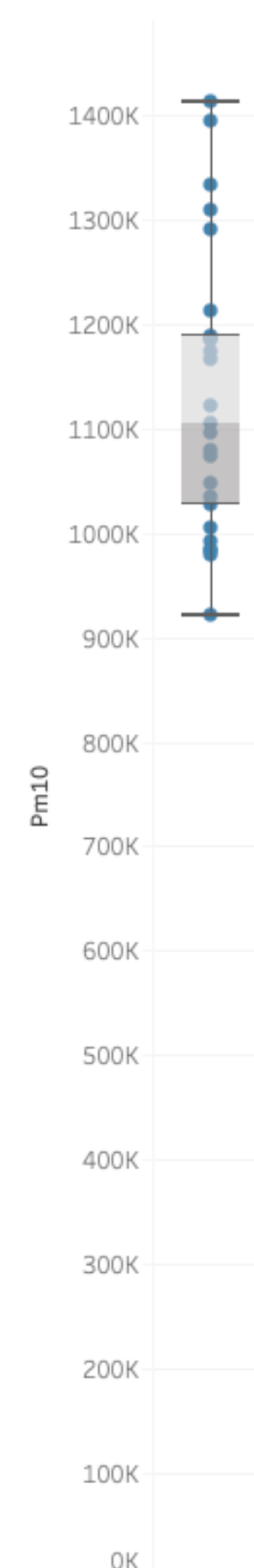
dt08 - bar - SO2



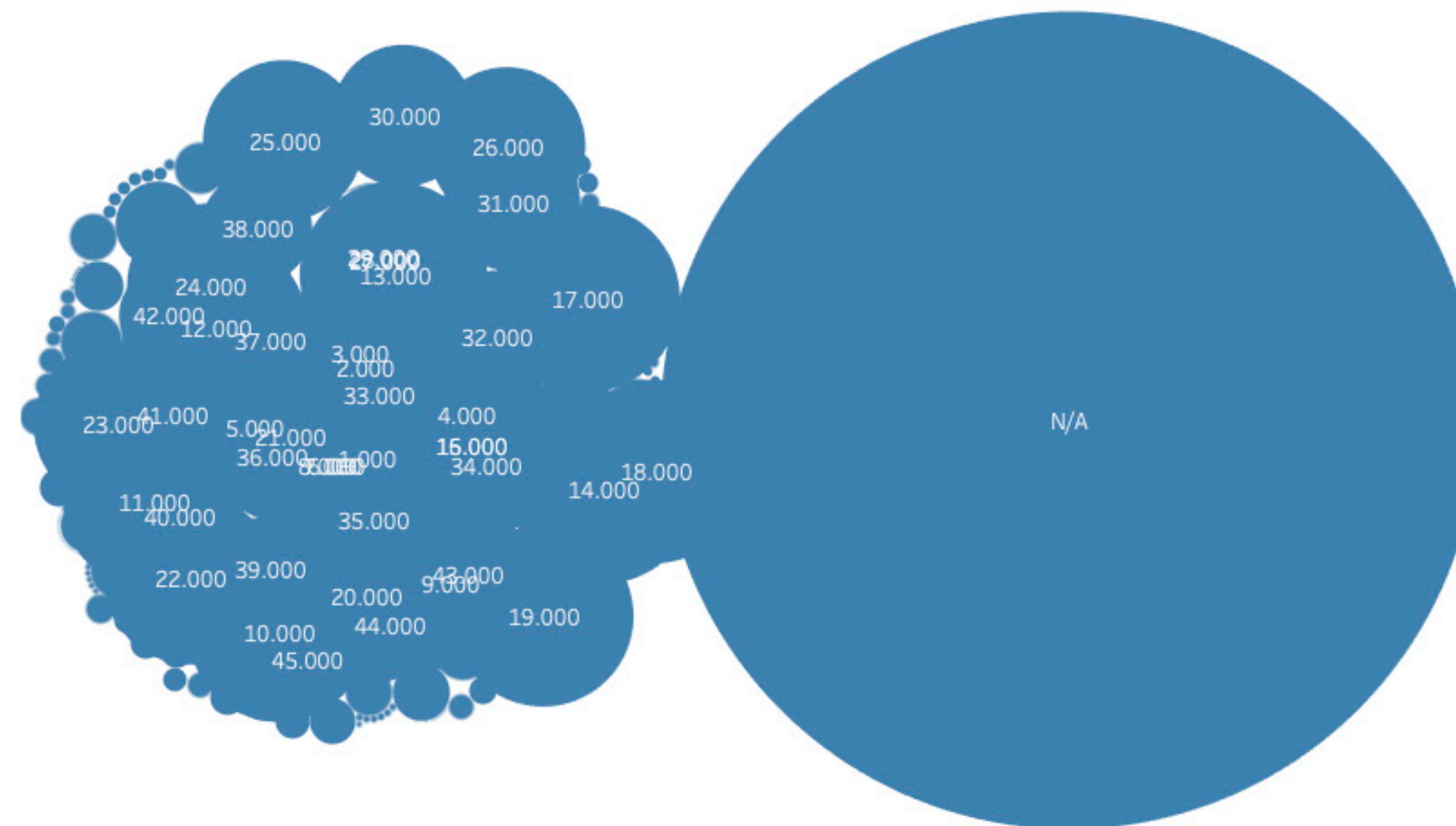
dt08 - box - small particles



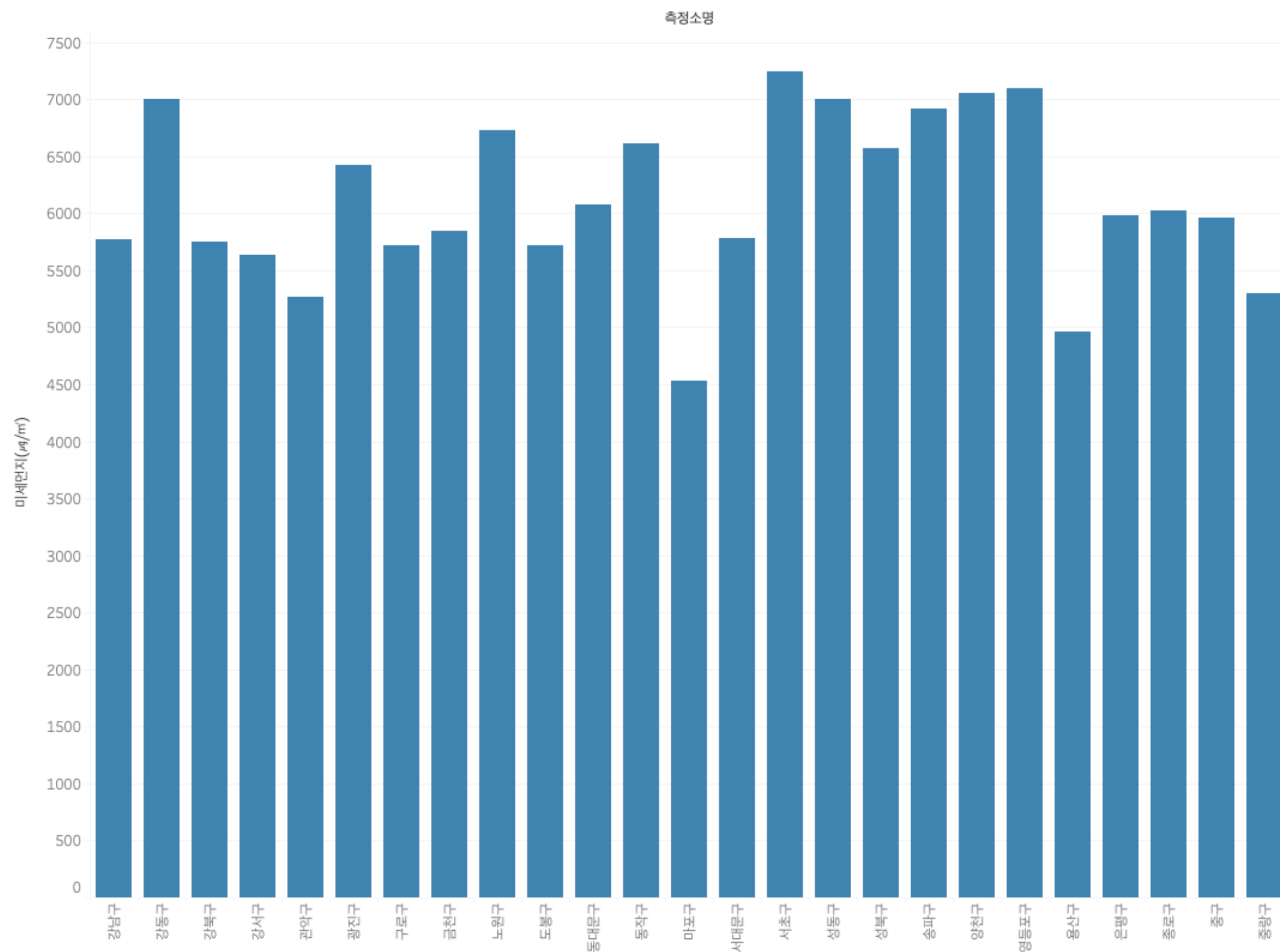
dt08 - box - large particles



dt10 - bubble - fine particles



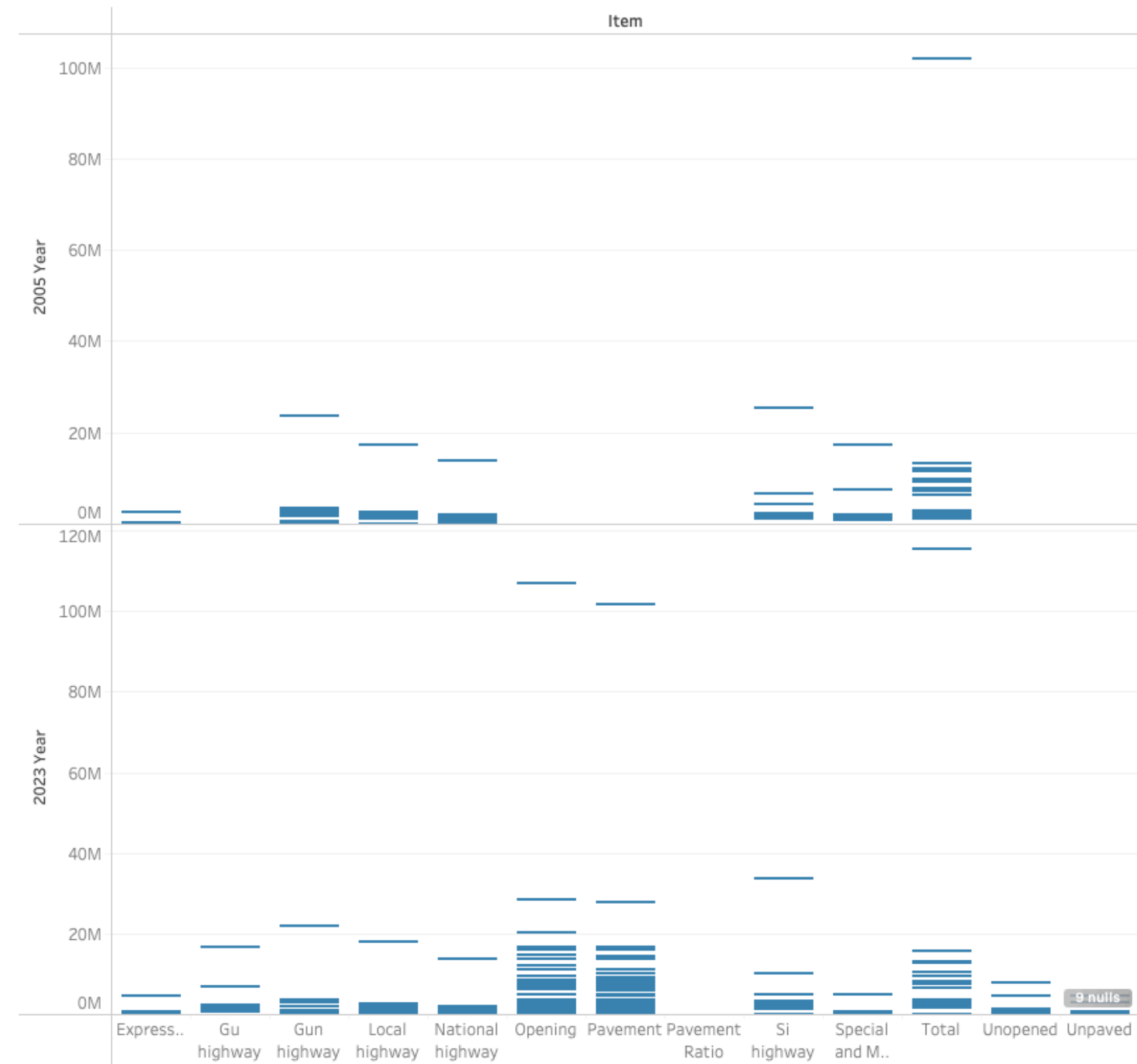
dt11 - bar - fine dust / hour

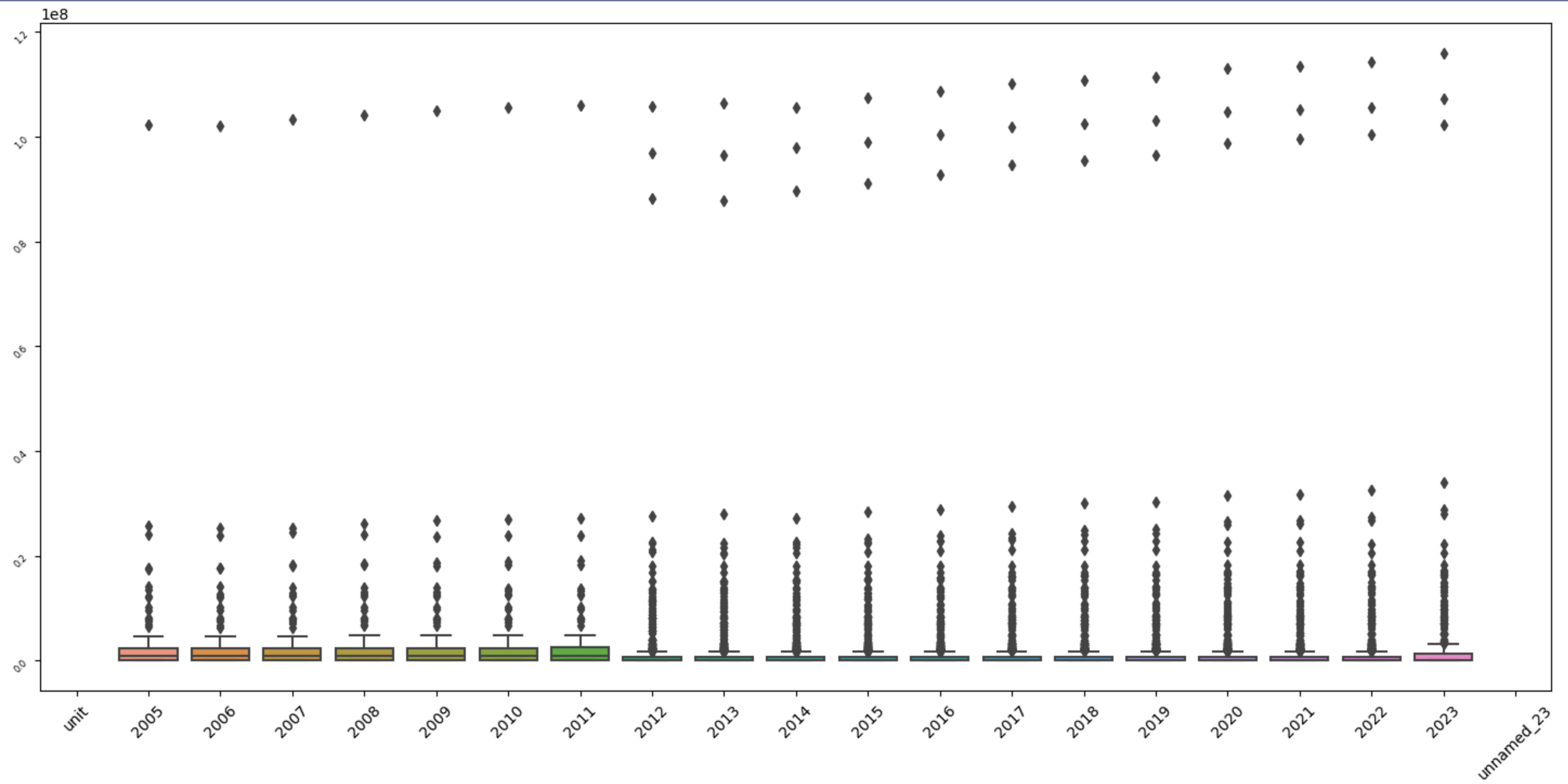


dt11 - chart - fine dust by region

측정소명	
강남구	5,767
강동구	7,006
강북구	5,756
강서구	5,636
관악구	5,268
광진구	6,424
구로구	5,717
금천구	5,846
노원구	6,734
도봉구	5,720
동대문구	6,077
동작구	6,608
마포구	4,536
서대문구	5,779
서초구	7,249
성동구	7,006
성북구	6,573
송파구	6,917
양천구	7,058
영등포구	7,097
용산구	4,960
은평구	5,982
종로구	6,026
중구	5,957
중랑구	5,295

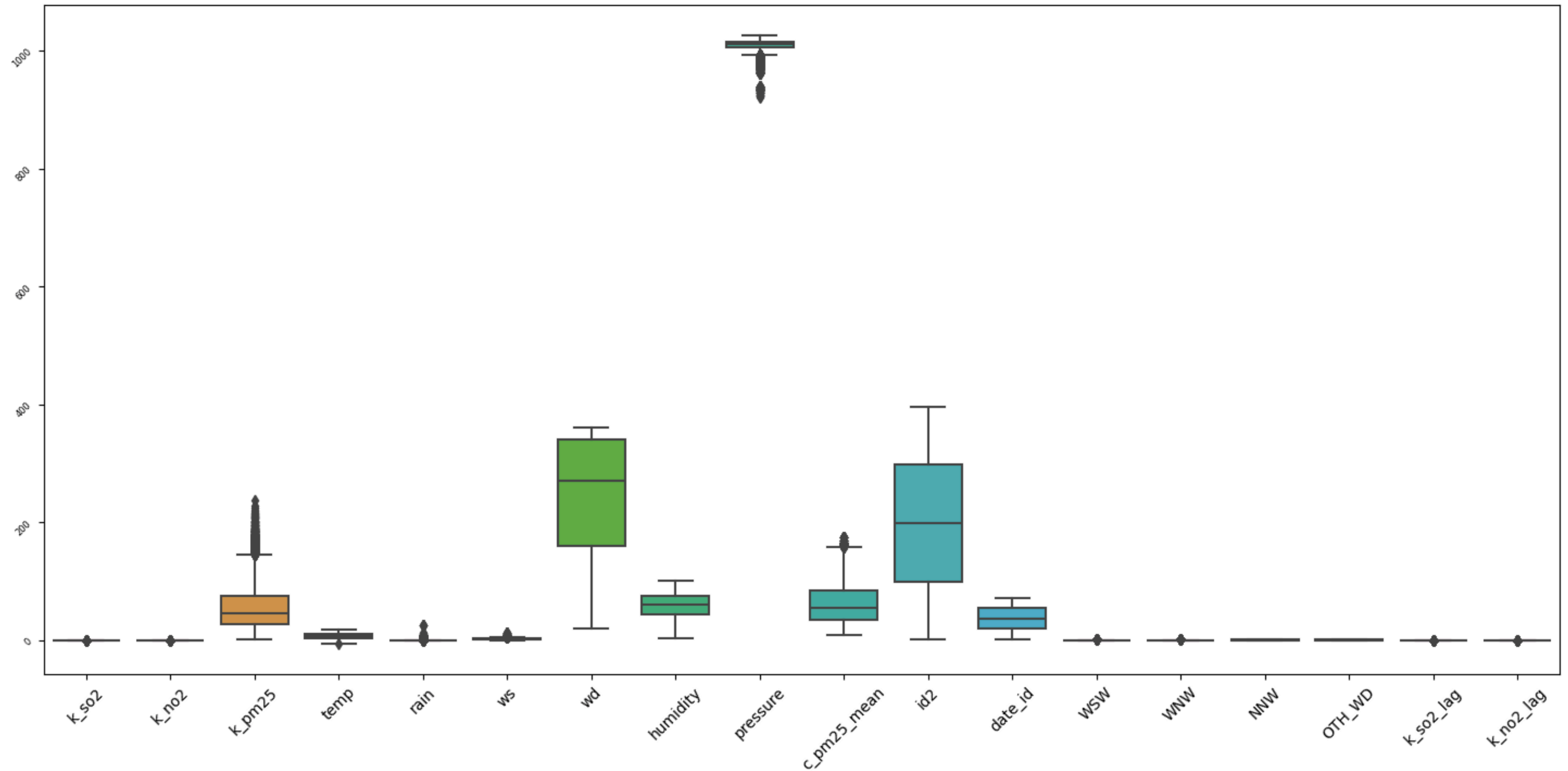
dt12 - gantt - types of roads



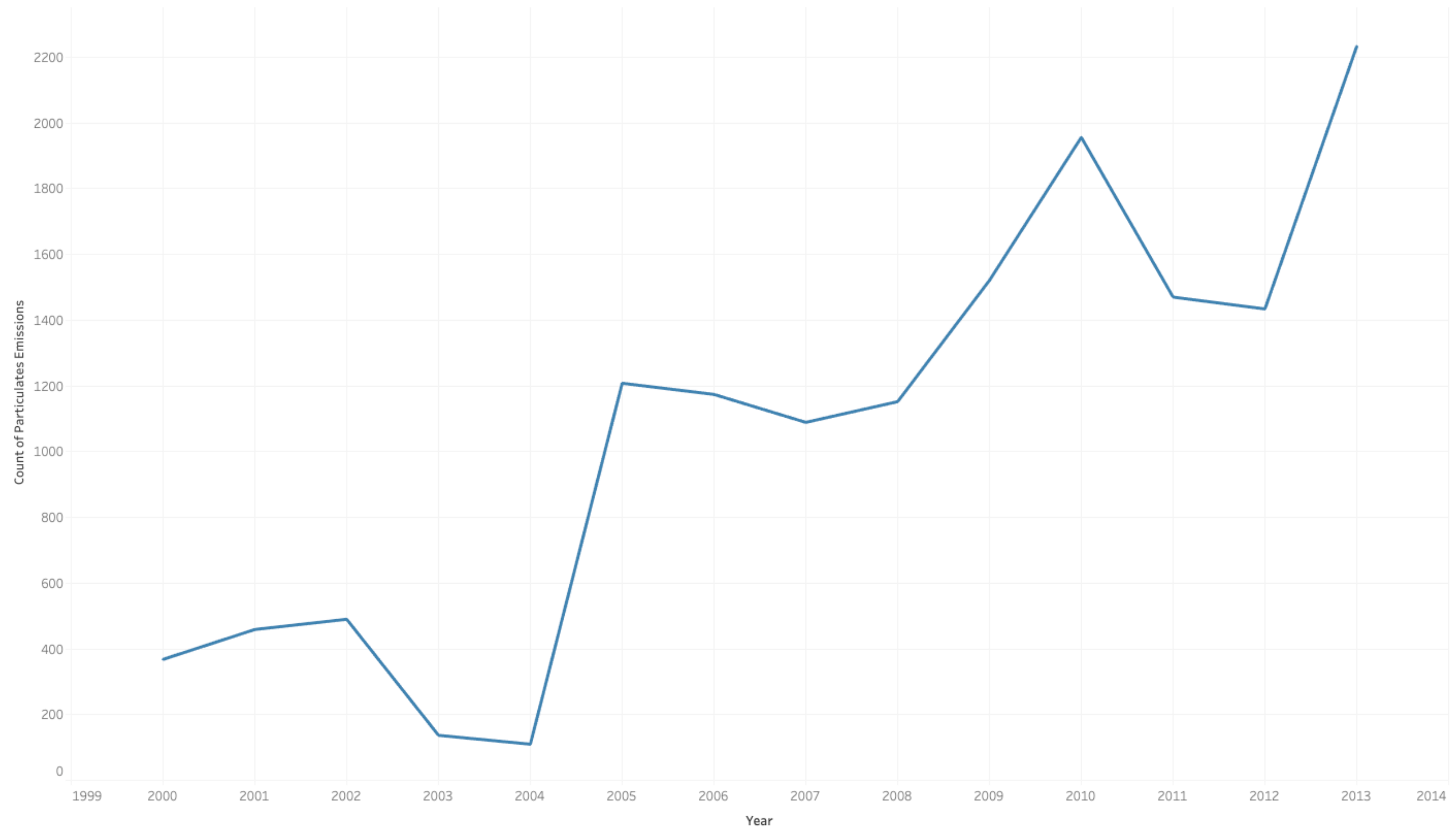


dt13 - bubble - average daily traffic





dt16 - line - car emissions





Thank You