Climate & Rainfall Analysis

Hottest City (Avg Temp)

Row Labels	Max of Temperature (°C)
Chennai	46.9
Grand Total	**46.9**

Avg of Rainfall (mm)

Row Labels	Average of Rainfall (mm)
Pune	5.37
Grand Total	**5.372**

Row Labels	Average of Wind Speed (km/h)
Ahmedabad	10.57
Grand Total	**10.5655**

Avg Temperature by City

Row Labels	Average of Temperature (°C)
Bengaluru	28.82
Pune	28.94
Hyderabad	29.14
Ahmedabad	29.71
Chennai	30.09
Mumbai	30.23
Jaipur	30.61
Delhi	31.08
Lucknow	31.19
Kolkata	31.52
Grand Total	**30.132**

Avg Rainfall by Region/City

Row Labels	Average of Rainfall (mm)
Pune	5.37
Jaipur	5.20
Lucknow	5.12
Ahmedabad	5.01
Hyderabad	4.90
Delhi	4.83
Chennai	4.77
Bengaluru	4.71
Kolkata	4.49
Mumbai	4.25
Grand Total	**4.8646**

Wind Speed Trend – Top 3 Cities

Average of Wind Speed (k	Column Labels			
Row Labels	Ahmedabad	Lucknow	Pune	Grand Total
Jan	10.29354839	10.23548387	10.78064516	10.43655914
Feb	10.9	9.865517241	10.34827586	10.37126437
Mar	10.78709677	9.829032258	10.15483871	10.25698925
Apr	10.50333333	10.62	9.613333333	10.24555556
May	10.36774194	11.00967742	10.35806452	10.57849462
Jun	10.61	9.596666667	10.36	10.18888889
Jul	10.48333333	11.25	10.40555556	10.71296296
Grand Total	**10.5655**	**10.292**	**10.2835**	**10.38033333**

Pollution Analysis by Pollutant

City with Highest PM2.5

Row Labels	Max of PM2.5
Ahmedabad	123.7
Grand Total	**123.7**

City with Highest O₃

Row Labels	Max of O₃
Jaipur	79
Grand Total	**79**

Most Common AQI Category

Row Labels	Count of AQI
Ahmedabad	200
Bengaluru	200
Chennai	200
Delhi	200
Hyderabad	200
Jaipur	200
Kolkata	200
Lucknow	200
Mumbai	200
Pune	200
Grand Total	**2000**

Pollution Analysis by Pollutant

City with Highest PM2.5

Row Labels	Max of PM2.5
Ahmedabad	123.7
Grand Total	**123.7**

City with Highest O₃

Row Labels	Max of O₃
Jaipur	79
Grand Total	**79**

Most Common AQI Category

Row Labels	Count of AQI
Ahmedabad	200
Bengaluru	200
Chennai	200
Delhi	200
Hyderabad	200
Jaipur	200
Kolkata	200
Lucknow	200
Mumbai	200
Pune	200
Grand Total	**2000**

Pollutants Comparison by City

Row Labels	Average of PM2.5	Average of PM10	Average of CO
Ahmedabad	60.320	80.3	0.80
Bengaluru	59.101	80.0	0.81
Chennai	62.395	83.0	0.78
Delhi	61.170	82.0	0.80
Hyderabad	62.088	81.1	0.79
Jaipur	60.937	81.0	0.82
Kolkata	57.535	78.0	0.83
Lucknow	61.616	80.8	0.80
Mumbai	58.443	77.2	0.74
Pune	56.276	77.0	0.82
Grand Total	**59.98785**	**80.0169**	**0.79725**

AQI Category Trend Over Time

Row Labels	Average of AQI	Average of PM2.5	Average of PM10	Average of O₃
Ahmedabad	121.73	60.32	80.27	40.06
Bengaluru	117.57	59.10	79.98	39.57
Chennai	119.28	62.39	82.98	39.07
Delhi	126.78	61.17	81.99	39.06
Hyderabad	123.02	62.09	81.14	40.41
Jaipur	120.64	60.94	80.98	39.38
Kolkata	115.64	57.53	77.95	38.44
Lucknow	117.08	61.62	80.77	38.16
Mumbai	120.43	58.44	77.16	40.85
Pune	124.05	56.28	76.96	38.88
Grand Total	**120.619**	**59.98785**	**80.0169**	**39.384**

Abbreviation	Forms	Description
AQI	Air Quality Index	Overall indicator of air pollution
PM2.5	Particulate Matter (≤ 2.5 microns)	Fine dust particles, dangerous to lungs
PM10	Particulate Matter (≤ 10 microns)	Dust, pollen, mold
NO_2	Nitrogen Dioxide	Caused by vehicles and power plants
SO_2	Sulfur Dioxide	Emitted by burning fossil fuels
CO	Carbon Monoxide	Odorless, from incomplete combustion (Fires and smoke, gas)
O_3	Ozone (Ground-level)	Created by sunlight + air pollutants

City Climate & Pollution Analysis

Total Cities: 10

Min Date: 01 January 2024

Max Date: 18 July 2024

Avg AQI: 120.62

Months (D...
- Jan
- Feb
- Mar
- Apr

City
- Ahmedabad
- Bengaluru
- Chennai

Top 5 Most Polluted Cities

Average of AQI

City	Average of AQI
Delhi	126.775
Pune	124.05
Hyderabad	123.015
Ahmedabad	121.725
Jaipur	120.635
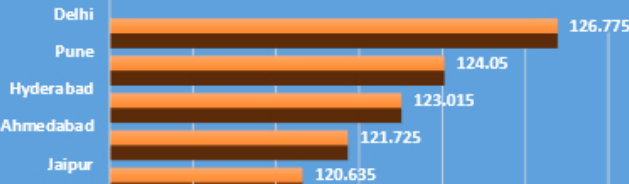
Monthly Avg AQI Trend All Cities

Average of AQI

Month	Average of AQI
Jan	118.52
Feb	120.16
Mar	122.21
Apr	122.23
May	118.79
Jun	125.00
Jul	115.41

Months (Date) · Days (Date) · Date
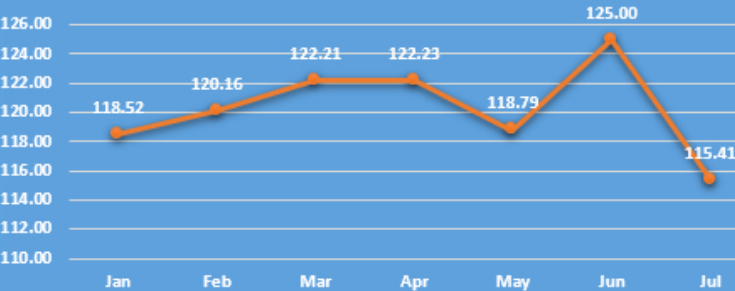
Average Temperature by Climate Zone

Average of Temperature (°C)

Climate Zone	Values (bottom to top)
Hot Desert	30.24, 29.79, 29.74, 29.61, 29.83, 29.57, 30.54, 30.23, 30.19, 29.75
Hot Semi-Arid	30.24, 29.79, 29.74, 29.61, 29.83, 29.57, 30.54, 30.23, 30.19, 29.75
Humid Subtropical	30.24, 29.79, 29.74, 29.61, 29.83, 29.57, 30.54, 30.23, 30.19, 29.75
Semi-Arid	30.24, 29.79, 29.74, 29.61, 29.83, 29.57, 30.54, 30.23, 30.19, 29.75
Tropical	30.24, 29.79, 29.74, 29.61, 29.83, 29.57, 30.54, 30.23, 30.19, 29.75
Tropical Savanna	30.24, 29.79, 29.74, 29.61, 29.83, 29.57, 30.54, 30.23, 30.19, 29.75
Tropical Wet	30.24, 29.79, 29.74, 29.61, 29.83, 29.57, 30.54, 30.23, 30.19, 29.75
Tropical Wet and Dry	30.24, 29.79, 29.74, 29.61, 29.83, 29.57, 30.54, 30.23, 30.19, 29.75

Climate Zone

Climate & Rainfall Analysis

Hottest City (Avg Temp)
Chennai
46.9

Avg of Rainfall (mm)
Pune
5.37

Avg of Wind Speed(Km/h)
Ahmedabad
10.57

Months (D...
- Jan
- Feb
- Mar
- Apr

Months (Da...
- Jan
- Feb
- Mar
- Apr

Avg Temperature by City

City ▾

City	Value
Kolkata	31.52
Lucknow	31.19
Delhi	31.08
Jaipur	30.61
Mumbai	30.23
Chennai	30.09
Ahmedabad	29.71
Hyderabad	29.14
Pune	28.94
Bengaluru	28.82

27.00 28.00 29.00 30.00 31.00 32.00
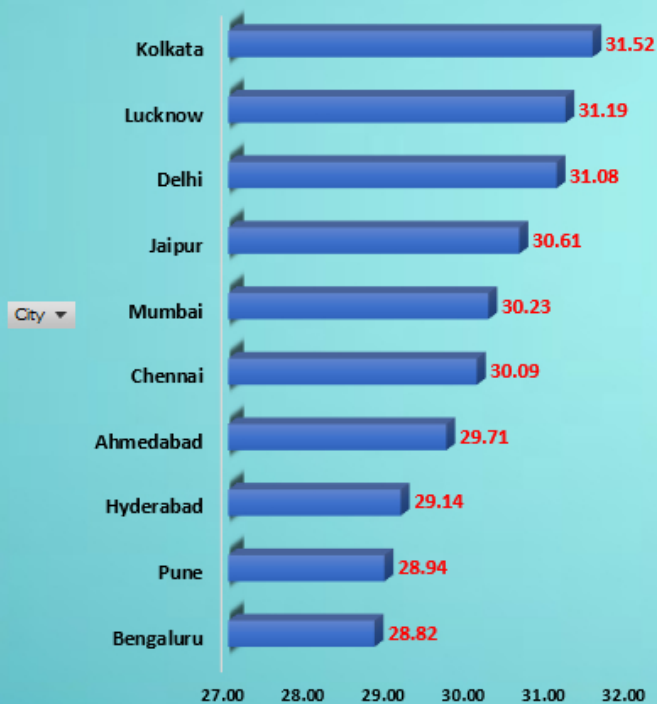
Average of Wind Speed (km/h) Top 3 Cities

City ▾

- Pune
- Lucknow
- Ahmedabad

Jan Feb Mar Apr May Jun Jul

Months (Date) ▾
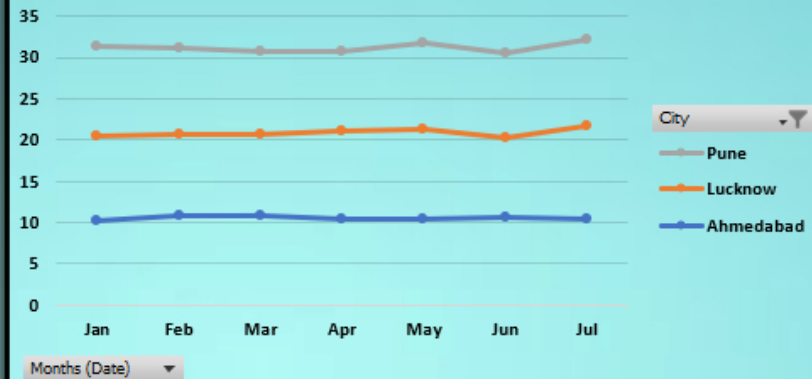
Average of Rainfall (mm)

Avg Rainfall by City

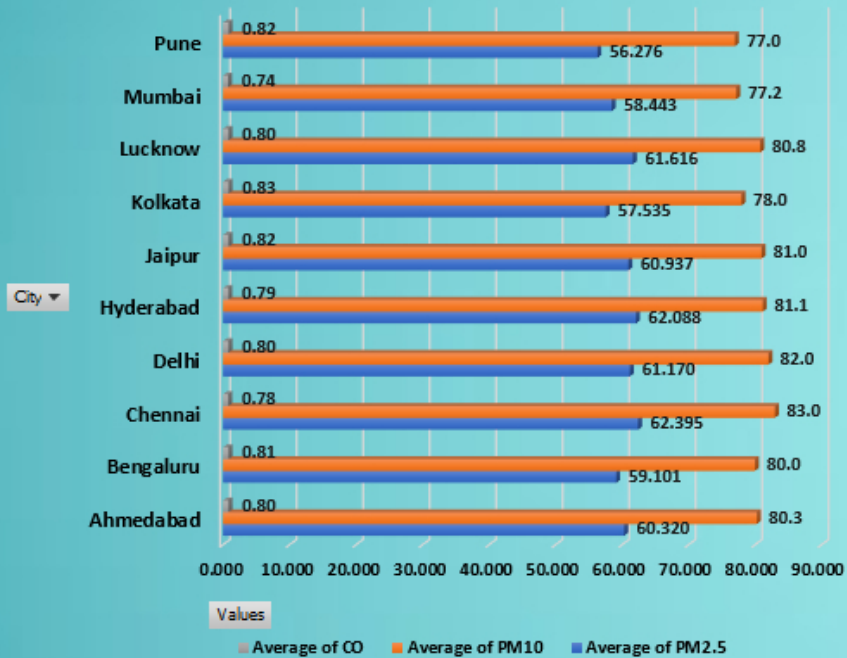| City	Value
Pune	5.37
Jaipur	5.20
Lucknow	5.12
Ahmedabad	5.01
Hyderabad	4.90
Delhi	4.83
Chennai	4.77
Bengaluru	4.71
Kolkata	4.49
Mumbai	4.25
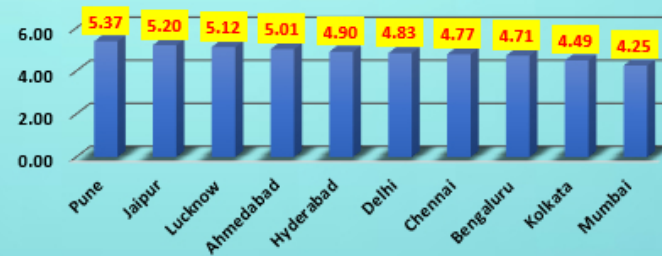
Pollution Analysis

Highest PM2.5
Ahmedabad
123.7

Highest O₃
Jaipur
79

Common AQI
(all cities)
200

Average of PM2.5 Average of PM10 Average of CO

Pollutants Comparison by City

City	Average of PM2.5	Average of PM10	Average of CO
Pune	56.276	77.0	0.82
Mumbai	58.443	77.2	0.74
Lucknow	61.616	80.8	0.80
Kolkata	57.535	78.0	0.83
Jaipur	60.937	81.0	0.82
Hyderabad	62.088	81.1	0.79
Delhi	61.170	82.0	0.80
Chennai	62.395	83.0	0.78
Bengaluru	59.101	80.0	0.81
Ahmedabad	60.320	80.3	0.80

0.000 10.000 20.000 30.000 40.000 50.000 60.000 70.000 80.000 90.000

Values

City ▼

■ Average of CO ■ Average of PM10 ■ Average of PM2.5

Average of AQI Average of PM2.5 Average of PM10 Average of O₃

AQI Category Trend Over Time

	Ahmedabad	Bengaluru	Chennai	Delhi	Hyderabad	Jaipur	Kolkata	Lucknow	Mumbai	Pune
Average of AQI	121.73	117.57	119.28	126.78	123.02	120.64	115.64	117.08	120.43	124.05
Average of PM2.5	60.32	59.10	62.39	61.17	62.09	60.94	57.53	61.62	58.44	56.28
Average of PM10	80.27	79.98	82.98	81.99	81.14	80.98	77.95	80.77	77.16	76.96
Average of O₃	40.06	39.57	39.07	39.06	40.41	39.38	38.44	38.16	40.85	38.88

140.00 120.00 100.00 80.00 60.00 40.00 20.00 0.00

Values

■ Average of AQI
■ Average of PM2.5
■ Average of PM10
■ Average of O₃

City ▼