

CERCA Weekly Newsletter

March 22, 2019

Center of Excellence for Research on Clean Air



Indian Institute of Technology, Delhi



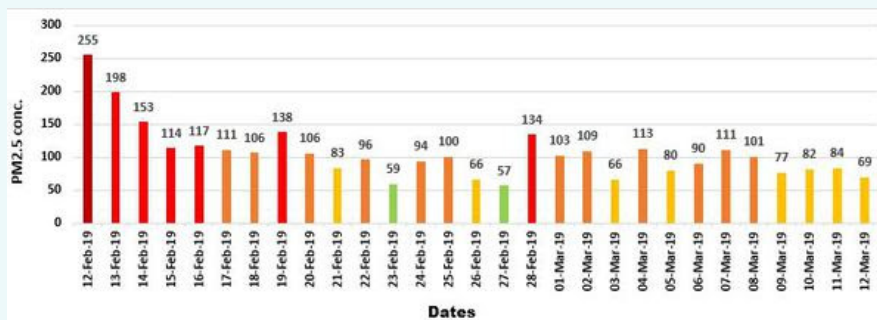
Air Quality in different cities



March 22, 2019, 11:00-12:00 IST (Hourly Average)

Data Source: Berkeley Earth

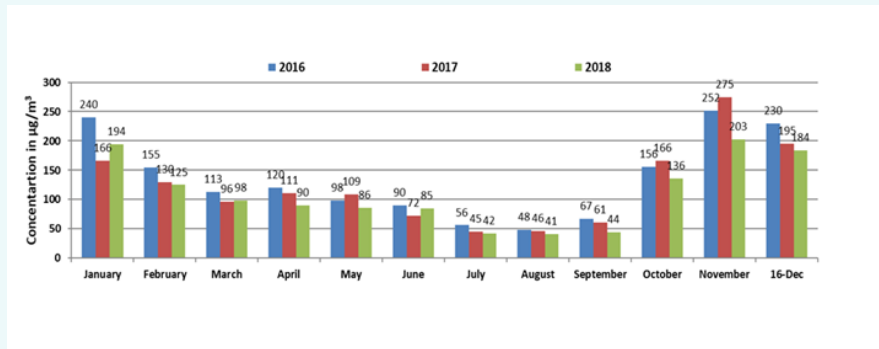
Delhi air quality for last 30 days



Average PM2.5 Air Quality for 10 stations in Delhi. Delhi has seen few better air quality days.

Data Source: CPCB

Delhi long term air quality trend



About 18 % decrease in PM2.5 levels in October, about 26 % in November and about 6 % in December 2018 in comparison to corresponding months in 2017 have been observed.

Air quality health impacts

Air quality	AQI Category (range)	PM2.5 24-hr (range)	Likely Health Impacts
Good	0-50	0-30	Minimal Impact
Satisfactory	51-100	31-60	May cause minor breathing discomfort to sensitive people
Moderately polluted	101-200	61-90	May cause breathing discomfort to the people with lung disease such as asthma and discomfort to people with heart disease, children and older adults
Poor	201-300	91-120	May cause breathing discomfort to people on prolonged exposure and discomfort to people with heart disease with short exposure
Very Poor	301-400	121-250	May cause respiratory illness to the people on prolonged exposure. Effect may be more pronounced in people with lung and heart diseases
Severe	401-500	250+	May cause respiratory effects even on healthy people and serious health impacts on people with lung/heart diseases. The health impacts may be experienced even during light physical activity

Thought Leadership

[Air Pollution Is About Justice as Well as Health](https://www.bloombergguint.com/business/green-new-deal-air-pollution-and-inequality#gs.2jpcsg)

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Source: Bloomberg

New Measures and Initiatives

[Green Court Directs 6 States to Provide Action Plan on Air Pollution](https://www.ndtv.com/india-news/national-green-tribunal-directs-6-states-to-)

The National Green Tribunal (NGT) has directed six states to submit action plans for bringing air quality standards within the prescribed norms by April 30

<https://www.ndtv.com/india-news/national-green-tribunal-directs-6-states-to->

[provide-action-plan-on-air-pollution-2008960](#)

Source: NDTV

[IIT Delhi, CERCA to Propose Measures to Control Air Pollution in City To Centre](#)

IIT-Delhi, which has a Centre of Excellence for Research on Clean Air, meant for research to study air pollution issues in Delhi-NCR region, is working closely with the Central Pollution Control Board on the issue.

<https://www.ndtv.com/india-news/iit-delhi-to-propose-measures-to-control-air-pollution-in-city-to-centre-2006008>

Source: NDTV

Health Impact

[Air pollution and Asthma](#)

A few days' exposures to ambient air pollution was associated with increased risk of death from asthma according to a team of researchers Sun Yat-sen University

<https://www.zmescience.com/science/short-term-exposure-to-air-pollution-may-be-deadly-for-people-with-asthma/>

Source: Zmescience

[London struggles to breathe!](#)

Air pollution is known to contribute to early deaths from respiratory and cardiovascular disease.

<https://www.channelnewsasia.com/news/commentary/london-air-pollution-bad-for-children-lung-development-10975786>

Source: Channel News Asia

International Developments

[Manchester triples cycling spending to curb pollution](#)

14 miles of walking and biking lanes to be built protected from road traffic.

<https://www.ft.com/content/8fbfd506-4be9-11e9-bbc9-6917dce3dc62>

Source: Financial Times

[Portsmouth council leader calls on Gove to fund 'radical' air pollution measures](#)

Portsmouth City Council leader Gerald Vernon-Jackson has written to Environment Secretary Michael Gove, asking the government to fund 'radical' measures to cut air pollution in the city.

<https://www.bbc.com/news/uk-england-hampshire-47622820>

Source: BBC

New Research (study) or Policy

[The Financial Burden of Air Pollution: Crop Residue Burning In India Costs India \\$30bn Annually](#)

The economic cost of exposure to air pollution from crop residual burning stands at

USD 30 billion or nearly Rs 2 lakh crore annually for the three north Indian states of Punjab, Haryana and Delhi alone.

<https://economictimes.indiatimes.com/news/environment/pollution/air-pollution-from-stubble-burning-costing-india-30bn-annually-study/articleshow/68251169.cms>

Source: *Economic Times*

The relation between climate change and air pollution

The link between the two is becoming clearer with each passing year. It is time we also recognize and give it the attention it deserves.

<https://www.downtoearth.org.in/blog/climate-change/how-global-warming-and-air-pollution-converge-63639>

Source: *Down to Earth*

New Technology

JLR recalls 44,000 cars

Tata Motors owned Jaguar Land Rover (JLR) has initiated a voluntary recall of around 44,000 cars in the UK over higher than certified levels of carbon dioxide (CO₂) emissions.

<https://economictimes.indiatimes.com/industry/auto/auto-news/tata-motors-jlr-recalls-44000-cars-over-co2-emission-levels/articleshow/68409465.cms>

Source: *Economic Times*

Cheap and Simple Test Devices for Car Emissions Developed By European Engineers

Cheap and simple devices that could help to effectively test the functioning of particle filters have been developed by engineers working to tackle carcinogenic pollution.

<https://auto.ndtv.com/news/engineers-develop-cheap-simple-tests-for-car-emissions-2008682>

Source: *NDTV*

For more details, visit our website <http://cerca.iitd.ac.in>

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