

Understanding Air Quality Index

Why in news?

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- National capital region smog pollution reaches hazardous levels. \slashn
- It is time to know about mechanism of air quality index $\normalized{\n}$

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What the Air Quality Index (AQI)?

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- AQI is a number used to communicate to the public how polluted the air currently is or how polluted it is forecasted to become. \n
- As AQI increases, an increasingly large percentage of the population is likely to experience increasingly adverse health effects. \nlambda{n}
- Different countries have their own air quality indexes, corresponding to different national air quality standards.
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- The AQI is most commonly used to describe ground-level ozone levels. $\ensuremath{\sc n}$
- However, the AQI can be used to represent five pollutants that pose a threat to human health.

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• These pollutants are:

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1. Ground-level Ozone or O3

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2. Particulate Matter (soot and dust) or PM

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3. Carbon Monoxide or CO

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- 4. Sulphur Dioxide or SO2 and
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- 5. Nitrogen Dioxide or NO2 n

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How it is calculated?

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- The pollutants in the affected air are given a weight based on a formula. h

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• That weight depends on the kind of impact it has on human health, each of the pollutants is given a weight.

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- The worst of these weights is given as a composite air quality. $\ensuremath{\sc vn}$
- So instead of giving six different numbers, six different colours, it throws up one single colour, one single number.
- The index will throw up one number which will be given to the public. $\ensuremath{\sc vn}$
- People will know the health of their air quality based on this number and one associated colour code.

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\n Colour \n	\n Level of Health Concern \n	∖n AQI Values ∖n
\n Green \n	\n Good \n	\n 0 to 50 \n
\n Yellow \n	\n Moderate \n	\n 51 to 100 \n
\n Orange \n	\n Unhealthy for sensitive groups \n	\n 101 to 150 \n

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Red	Unhealthy	151 to 200
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	\n Very Unhealthy \n	\n 201 to 300 \n
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Maroon	Hazardous	301 to 500
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Source: Indian Express

SHANKAR