

Air Quality Index (AQI)

Definition of air pollution indicators







Air quality index based on monitoring data will be published on the same day along with ozone (O₃), suspended fine particles (PM_{2.5}), suspended particles (PM₁₀), carbon monoxide (CO), sulfur dioxide (SO₂) and Nitric oxide (NO₂). Their concentration values, and impact on human health are converted by pollutants. The vice-value targets, indicators, deputy to the day of the maximum value of the stations on the day of the air quality index (AQI).

The concentration of pollutants and air quality index value deputy table







Air Quality Index(AQI)							
AQI	O ₃ (ppm) 8hr	O ₃ (ppm) 1-hr ⁽¹⁾	PM _{2.5} (µg/m ³) 24-hr	PM ₁₀ (µg/m ³) 24-hr	CO (ppm) 8-hr	SO ₂ (ppb) 1-hr	NO ₂ (ppb) 1-hr
Good 0~50	0.000 - 0.054	-	0.0 - 15.4	0 - 54	0 - 4.4	0 - 35	0 - 53
Moderate 51~100	0.055 - 0.070	-	15.5 - 35.4	55 - 125	4.5 - 9.4	36 - 75	54 - 100
Unhealthy for Sensitive Groups 101~150	0.071 - 0.085	0.125 - 0.164	35.5 - 54.4	126 - 254	9.5 - 12.4	76 - 185	101 - 360
Unhealthy 151~200	0.086 - 0.105	0.165 - 0.204	54.5 - 150.4	255 - 354	12.5 - 15.4	186 - 304 ⁽³⁾	361 - 649
Very Unhealthy 201~300	0.106 - 0.200	0.205 - 0.404	150.5 - 250.4	355 - 424	15.5 - 30.4	305 - 604 ⁽³⁾	650 - 1249
Hazardous 301~400	⁽²⁾	0.405 - 0.504	250.5 - 350.4	425 - 504	30.5 - 40.4	605 - 804 ⁽³⁾	1250 - 1649
Hazardous 401~500	⁽²⁾	0.505 - 0.604	350.5 - 500.4	505 - 604	40.5 - 50.4	805 - 1004 ⁽³⁾	1650 - 2049

1. Areas are generally required to report the AQI based on 8-hour ozone values. However, there are a small number of areas where an AQI based on 1-hour ozone values would be more precautionary. In these cases, in addition to calculating the 8-hour ozone index value, the 1-hour ozone value may be calculated, and the maximum of the two values reported.
2. 8-hour O₃ values do not define higher AQI values (≥ 301). AQI values of 301 or higher are calculated with 1-hour O₃ concentrations.
3. 1-hour SO₂ values do not define higher AQI values (≥ 200). AQI values of 200 or greater are calculated with 24-hour SO₂ concentrations.

AQI value and impact on health

AQI	Air Quality Index (AQI)	0~50	51~100	101~150	151~200	201~300	301~500
	Impact on Health	Good	Moderate	Unhealthy for Sensitive Groups	Unhealthy	Very Unhealthy	Hazardous
	Status Color						
	Impact on Human Health	Air quality is considered satisfactory, and air pollution poses little or no risk.	Air quality is acceptable. However, for some pollutants there may be a moderate health concern for a very small number of people who are unusually sensitive to air pollution.	Members of sensitive groups may experience health effects. The general public is not likely to be affected.	Everyone may begin to experience health effects; members of sensitive groups may experience more serious health effects.	Health alert: Everyone may experience more serious health effects.	Health warnings of emergency conditions. The entire population is likely to be affected.

Air Quality Index and Activity Guidelines

Air Quality Index (AQI)	0~50	51~100	101~150	151~200	201~300	301~500
Air Quality Index Levels of Health Concern	Good	Moderate	Unhealthy for Sensitive Groups	Unhealthy	Very Unhealthy	Hazardous
Status Color						
Activity Guidelines for the General Public	Enjoy your usual outdoor activities.	Enjoy your usual outdoor activities.	1. People who experience discomfort such as sore eyes, cough or sore throat should	1. People who experience discomfort such as sore eyes, cough or sore throat should reduce physical exertion,	1. Everyone should reduce outdoor activities. 2. Students should cease outdoor activities and move all activities and classes	1. Everyone should avoid outdoor activities and keep doors and windows closed. If it is necessary to go out, please wear a facemask.

			<p>Id consider reducing outdoor activities.</p> <p>2.For students, it's ok to be active outside, but are recommended to reduce prolonged strenuous exercise.</p>	<p>particularly outdoors.</p> <p>2.Students should avoid prolonged strenuous exercise, and take more breaks during outdoor activities.</p>	indoors.	<p>2.Students should cease outdoor activities and move all activities and classes indoors.</p>
<p>Activity Guidance for Sensitive Groups</p>	<p>Enjoy your usual outdoor activities.</p>	<p>Unusually sensitive groups are recommended to watch for symptoms such as coughing or shortness of breath, but can still be active outside.</p>	<p>1.People with heart, respiratory and cardiovascular problems, children, teenagers and older adults are recommended to reduce physical exertion and outdoor activities.</p> <p>2.People with asthma may need to use their reliever inhalers more often.</p>	<p>1.People with heart, respiratory and cardiovascular problems, children, teenagers and older adults are recommended to stay indoors and reduce physical exertion. If it is necessary to go out, please wear a facemask.</p> <p>2.People with asthma may need to use their reliever inhalers more often.</p>	<p>1.People with heart, respiratory and cardiovascular problems, children, teenagers and older adults should stay indoors and reduce physical exertion. If it is necessary to go out, please wear a facemask.</p> <p>2.People with asthma should use their reliever inhalers more often.</p>	<p>1.People with heart, respiratory and cardiovascular problems, children, teenagers and older adults should stay indoors and avoid physical exertion. If it is necessary to go out, please wear a facemask.</p> <p>2.People with asthma should use their reliever inhalers more often.</p>