

Air Quality Health Index of Tuen Mun Air Quality Monitoring Station

2024/Jan-Feb

The Environmental Protection Department (EPD) launched on 30 December 2013 the Air Quality Health Index (AQHI) to replace the Air Pollution Index (API), which had been used from 1998. The AQHI informs the public of the short-term health risk of air pollution and helps them take precautionary measures for health protection.

When the health risk category reaches High (AQHI reaches “7”), people who are sensitive to air pollution (including children, the elderly and people with heart or respiratory illnesses) are advised to take precautionary actions. Therefore, we provide below information on the days with the health risk category reaching “High” or above at Tuen Mun station.

From 2014 to 2023, the number of hours with AQHI at “7” or above (i.e., “high” health risk category or above) recorded at Tuen Mun Air Quality Monitoring Station continued to decrease: 220 hours (or 2.5%) were recorded in 2023, which is lower than 519 hours (or 5.9%) in 2014, reflecting the continuous improvement of air quality in Tuen Mun in recent years.

In January and February 2024, Tuen Mun station recorded 5 days with AQHI reaching “7” or above. Details are shown as follows:

Dates (AQHI reached “7” or above)	Duration (Hour)
1 January	4
6 January	11
9 January	5
12 January	4
20 January	2

Note: Short-term air quality can fluctuate significantly depending on various factors, including meteorological conditions. Fluctuation of weather conditions could cause air quality of individual months to differ from that of previous years, even if there is no significant change in air pollutant emissions. It is therefore inappropriate to conclude the change of air quality based on short-term air quality data (for example, by comparing the air monitoring data of individual month or months with those in the same period of last year). The short-term data in the same period last year shall only be taken for reference.

During the same period of last year (2023), Tuen Mun station recorded 5 days with AQHI reaching “7” or above. Details are shown as follows:

Dates (AQHI reached “7” or above)	Duration (Hour)
5 January	5
19 February	4
20 February	4
23 February	3
24 February	7

Daily maxima and minima of AQHI in January and February of 2023 and 2024 recorded at Tuen Mun air quality monitoring station are shown in the Annex:

Annex:

Daily maxima and minima of AQHI in January and February of 2023 and 2024 at Tuen Mun Air Quality Monitoring Station

Date	January 2023		February 2023		January 2024		February 2024	
	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest
1	4	3	4	3	7	4	3	2
2	5	3	5	3	6	4	3	2
3	4	3	5	4	5	3	4	3
4	5	3	4	3	6	3	3	3
5	8	4	3	3	6	4	3	2
6	5	3	3	2	10+	3	4	3
7	4	4	3	2	6	5	3	2
8	5	4	4	3	6	5	2	2
9	5	3	4	3	8	4	3	2
10	3	2	3	3	5	3	5	3
11	4	2	4	2	6	3	5	3
12	3	3	3	2	8	4	5	3
13	3	2	3	2	6	4	5	3
14	3	2	4	1	4	4	5	3
15	2	1	6	3	6	3	4	3
16	3	2	6	3	5	4	4	3
17	3	2	6	4	5	4	4	3
18	4	3	5	3	4	3	3	3
19	5	3	9	3	5	2	3	2
20	4	3	7	4	7	3	3	2
21	4	3	6	4	5	2	3	2
22	5	3	5	4	4	2	3	2
23	4	2	8	3	3	2	3	2
24	5	2	9	3	4	3	4	2
25	5	4	5	3	5	3	4	2
26	4	3	6	3	4	3	4	2
27	5	3	5	4	5	3	5	2
28	5	4	5	3	3	2	4	3
29	5	4			4	2	5	2
30	5	3			4	3		
31	5	4			4	2		

Note: The AQHI is reported on a scale of 1 to 10 and 10+, and is grouped into five health risk categories, i.e. low (AQHI=1 to 3), moderate (AQHI=4 to 6), high (AQHI=7), very high (AQHI=8 to 10), and serious (AQHI=10+). The above table presents the daily maxima and minima of the AQHI.

2024/Mar-Apr

The Environmental Protection Department (EPD) launches the Air Quality Health Index (AQHI) to replace the Air Pollution Index (API) from 30 December 2013. The AQHI informs public of the short-term health risk of air pollution and helps them to take precautionary measures for health protection.

When the health risk category reaches High (AQHI reaches “7”), people who are sensitive to air pollution (including children, the elderly and people with heart or respiratory illnesses) are suggested to take precautionary actions. We therefore provide information on the days with the health risk category reached “High” or above at Tuen Mun station.

In March and April 2024, Tuen Mun station recorded 2 days with AQHI reached “7” or above. Details are shown as follows:

Dates (AQHI reached “7” or above)	Duration (Hour)
26 March	5
29 March	3

(Note: Short-term air quality can fluctuate significantly depending on various factors, including meteorological conditions. Fluctuation of weather condition could make air quality of individual months to differ from that of previous years, even if there is no significant change in air pollutant emissions. It is therefore inappropriate to conclude the change of air quality based on short-term air quality data (for example, by comparing the air monitoring data of individual month or months with those in the same period of last year). Comparison of short-term data shall only be used for reference.)

During the same period of last year (2023), Tuen Mun station recorded 10 days with AQHI reached “7” or above. Details are shown as follows:

Dates (AQHI reached “7” or above)	Duration (Hour)
1 March	11
2 March	6
3 March	5
4 March	6
9 March	7
12 March	2
13 March	4
15 April	6
16 April	5
30 April	4

Daily maxima and minima of AQHI in March and April of 2023 and 2024 recorded at Tuen Mun air quality monitoring station are shown in the Annex:

Annex:

Daily maxima and minima of AQHI in March and April of 2023 and 2024 at Tuen Mun Air Quality Monitoring Station

Date	March 2023		April 2023		March 2024		April 2024	
	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest
1	10+	3	4	3	3	2	3	2
2	7	5	4	3	3	2	3	3
3	7	5	4	3	4	2	3	2
4	8	4	4	3	4	3	2	2
5	6	4	3	2	3	3	3	2
6	6	5	2	2	4	3	3	3
7	5	4	6	2	4	2	3	2
8	5	4	5	3	5	3	3	2
9	8	3	5	4	6	4	3	2
10	6	4	5	4	4	3	6	3
11	5	4	4	3	4	3	6	4
12	7	3	4	3	5	2	5	3
13	7	5	5	4	6	4	4	3
14	6	5	4	3	6	5	3	2
15	6	4	8	3	5	4	3	2
16	6	3	8	3	4	3	3	2
17	5	3	5	3	4	3	3	2
18	5	3	3	2	4	2	4	2
19	4	3	5	2	5	2	3	2
20	4	3	4	3	6	3	3	2
21	3	2	5	3	6	4	3	2
22	3	2	4	4	5	4	3	2
23	2	2	4	4	4	3	3	2
24	3	2	4	3	3	3	4	2
25	3	3	3	2	3	2	3	2
26	3	2	6	2	10	2	3	2
27	3	2	6	4	5	4	2	2
28	3	2	5	4	4	3	4	2
29	4	4	5	3	7	3	3	2
30	4	3	8	3	4	3	4	2
31	4	3			3	2		

Note: The AQHI is reported on a scale of 1 to 10 and 10+, and is grouped into five health risk categories, i.e. low (AQHI=1 to 3), moderate (AQHI=4 to 6), high (AQHI=7), very high (AQHI=8 to 10), and serious (AQHI=10+). The above table presents the daily maxima and minima of the AQHI.

2024/May-Jun

The Environmental Protection Department (EPD) launches the Air Quality Health Index (AQHI) to replace the Air Pollution Index (API) from 30 December 2013. The AQHI informs public of the short-term health risk of air pollution and helps them to take precautionary measures for health protection.

When the health risk category reaches High (AQHI reaches “7”), people who are sensitive to air pollution (including children, the elderly and people with heart or respiratory illnesses) are suggested to take precautionary actions. We therefore provide information on the days with the health risk category reached “High” or above at Tuen Mun station.

In May and June 2024, Tuen Mun station recorded 2 days with AQHI reached “7” or above. Details are shown as follows:

Dates (AQHI reached “7” or above)	Duration (Hour)
7 May	4
9 May	6
15 May	7
16 May	12
17 May	1

(Note: Short-term air quality can fluctuate significantly depending on various factors, including meteorological conditions. Fluctuation of weather condition could make air quality of individual months to differ from that of previous years, even if there is no significant change in air pollutant emissions. It is therefore inappropriate to conclude the change of air quality based on short-term air quality data (for example, by comparing the air monitoring data of individual month or months with those in the same period of last year). Comparison of short-term data shall only be used for reference.)

During the same period of last year (2023), Tuen Mun station recorded 10 days with AQHI reached “7” or above. Details are shown as follows:

Dates (AQHI reached “7” or above)	Duration (Hour)
15 May	3
29 May	3
30 May	11
31 May	12
1 June	3

Daily maxima and minima of AQHI in May and June of 2023 and 2024 recorded at Tuen Mun air quality monitoring station are shown in the Annex:

Annex:

**Daily maxima and minima of AQHI in May and June of 2023 and 2024
at Tuen Mun Air Quality Monitoring Station**

Date	May 2023		June 2023		May 2023		June 2023	
	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest
1	5	4	7	4	4	3	3	2
2	5	4	6	3	4	2	5	2
3	4	3	4	2	5	4	4	2
4	3	2	3	2	4	3	5	4
5	3	2	3	2	4	2	4	3
6	3	2	2	2	4	2	4	2
7	4	2	3	2	8	4	4	2
8	3	2	2	2	5	3	3	2
9	5	2	3	2	7	5	2	2
10	5	5	3	2	6	4	2	2
11	5	4	4	2	4	3	3	2
12	5	3	4	2	4	3	3	2
13	4	2	5	2	6	3	3	2
14	4	3	4	3	6	4	3	3
15	7	3	6	2	8	5	3	2
16	4	3	4	3	8	5	3	2
17	3	2	3	2	7	4	3	2
18	4	3	2	2	5	4	3	2
19	4	2	3	2	5	3	3	2
20	3	2	3	2	3	3	3	2
21	3	2	3	2	3	2	2	2
22	3	2	3	2	5	2	3	2
23	4	2	3	2	3	2	2	2
24	5	4	2	2	3	2	3	2
25	4	3	2	2	3	2	2	2
26	3	2	3	2	3	2	3	2
27	4	2	3	2	2	2	3	2
28	4	2	2	1	5	2	3	2
29	7	3	3	1	5	4	2	2
30	10+	2	2	2	4	3	2	2
31	10	4			3	2		

Note: The AQHI is reported on a scale of 1 to 10 and 10+, and is grouped into five health risk categories, i.e. low (AQHI=1 to 3), moderate (AQHI=4 to 6), high (AQHI=7), very high (AQHI=8 to 10), and serious (AQHI=10+). The above table presents the daily maxima and minima of the AQHI.