

Measurement of Radiation Dose for Air in the Ports around Tokyo Bay

【Measured value】

http://www.mlit.go.jp/kowan/kowan_fr1_000040.html

		Measurement points (Address)	2024/1/2	2024/1/9	2024/1/16	2024/1/23		Annual exposure calculation	
Port of Tokyo	◎	Tokyo Metropolitan Institute of Public Health (Hyakunin-cho, Shinjuku-ku, Tokyo)	43nGy/h AM 8:00	41nGy/h AM 8:00	41nGy/h AM 8:00	41nGy/h AM 8:00	0.000041 mSv/h	0.36mSv	
Port of Yokohama	☆	Yokohama city land (Bukkounishi, Hodogaya-ku, Yokohama, Kanagawa)	29nGy/h AM 8:00	30nGy/h AM 8:00	29nGy/h AM 8:00	29nGy/h AM 8:00	0.000029 mSv/h	0.25mSv	
Port of Kawasaki	△	Kawasaki Environment Research Institute (Tono-machi, Kawasaki-ku, Kawasaki, Kanagawa)	Measurement suspend						
Port of Chiba	□	Chiba Prefectural Environmental Research Center (Iwasaki-Nishi, Ichihara, Chiba)	227nGy/h AM 8:00	27nGy/h AM 8:00	26nGy/h AM 8:00	27nGy/h AM 8:00	0.000027 mSv/h	0.24mSv	

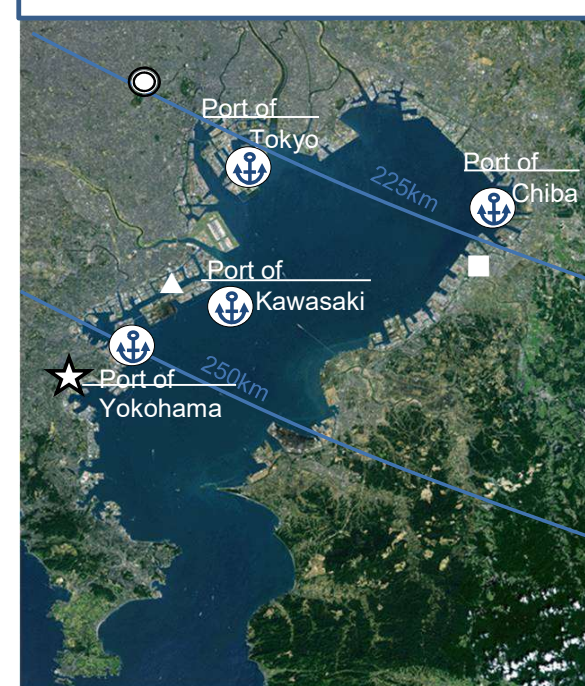
- 1) According to the website of Tokyo-Electric Power Company, the unit is converted 1 nano-Gray/hour (nGy/hr) \doteq 1 nano-Sievert /hour (nSv/hr).
- 2) "Annual exposure calculation" is the estimation under the condition that the hourly radiation dose measurement at the measurement point is accumulated 24 hours throughout the year.
- 3) 1 milli-Sievert (mSv) = 1000 micro-Sievert (μ Sv)
1 micro-Sievert (μ Sv) = 1000 nano-Sievert (nSv)

According to the Ministry of Education, Culture, Sports, Science and Technology, examples of exposure level of radiation in daily life is as below.

- Chest X-ray (once)	0.05 mSv
- 1 roundtrip between Tokyo and New York by air	0.2 mSv
- Stomach X-ray (once)	0.6 mSv

According to the WHO, a person is exposed to approximately **3.0mSv/year** on average.

Distance from Fukushima Daiichi Nuclear Plant



Source;

◎	Tokyo Metropolitan Institute of Public Health Website (Japanese only) http://monitoring.tokyo-eiken.go.jp/mon_post.html#sinjyuku
☆	City of Yokohama, Environmental Planning Bureau Website(Japanese only) http://cgi.city.yokohama.lg.jp/kankyousaigai/data/radio.html
△	City of Kawasaki Website(Japanese only) http://www.city.kawasaki.jp/300/page/0000085880.html
□	Chiba Prefecture Government Website(Japanese only) http://www.pref.chiba.lg.jp/taiki/h23touhoku/houshasen/monitaringpost.html

Measurement of Radioactivity for Seawater in the Ports around Tokyo Bay

http://www.mlit.go.jp/kowan/kowan_fr1_000040.html

【Measured value】

	Measurement points	Date	Iodine I-131	Cesium Cs-134	Cesium Cs-137
Port of Tokyo	○ Mid point between Oi Terminal and Aomi Teraminal (Not Detected = Less Than 1-2Bq/kg)	2024/1/15	Not Detected	Not Detected	Not Detected
Tokyo bay	☆ Uraga-Suido Traffic Route (Not Detected = Less Than 5Bq/kg)	2024/1/18	Not Detected	Not Detected	Not Detected

	Measurement points	Date	Iodine I-131	Cesium Cs-134	Cesium Cs-137
Port of Yokohama	△ Yokohama Passage (Not Detected = Less Than 1Bq/kg)	2024/1/9	Not Detected	Not Detected	Not Detected
Port of Kawasaki	□ Kawasaki Passage	Measurement suspend			
Port of Chiba	◇ Chiba Passage (Not Detected = Less Than 0.8Bq/kg)	2024/1/9	Not Detected	Not Detected	Not Detected

- 1) 'Not Detected' means the value below detection limit.
- 2) Sample is collected from surface of the sea.
- 3) Sample is collected in the morning at both Port of Tokyo and Tokyo bay.

【Reference】

- Standard value under the Food Sanitation Act of Japan (enforced on April 1st, 2012) is shown as follows;
 - Drinking water; under 10Bq (becquerel) /1kg water
 - ※Bq (becquerel) is defined as the activity of a quantity of radioactive material.
 - ※The sum total of target radioactive materials (Cesium 134, Cesium 137, Strontium 90, Plutonium, Ruthenium 106).

Source;

○	Bureau of Port and Harbor, Tokyo Metropolitan Gov. Website (Japanese only) https://www.kowan.metro.tokyo.lg.jp/jishin_kouwankyoku_oshirase/measurement/#table2
☆	Kanto Regional Development Bureau, MLIT Website https://www.pa.ktr.mlit.go.jp/kyoku/radiation/index.htm
△	Website of Yokohama Port Corporation http://www.yokohamaport.co.jp/radiation/
□	City of Kawasaki Website (Japanese only) http://www.city.kawasaki.jp/580/page/0000031724.html
◇	Chiba Prefecture Government Website(Japanese only) http://www.pref.chiba.lg.jp/kowan/houshasen/h23sokuteikekka.html

Distance from Fukushima Daiichi Nuclear Plant

