Radioactive Material Monitoring in and around Fukushima Prefecture (Public Water Areas)



http://www.env.go.jp/jishin/monitoring/results_r-pw-r03.html (in Japanese)

Radioactive material monitoring was conducted at rivers, lakes and coastal areas in Miyagi, Ibaraki and other Prefectures, centered on Fukushima Prefecture, where contamination with radioactive materials was suspected.

In FY2021, monitoring covered 602 locations and analysis was conducted for radioactive cesium and strontium in water, etc.

Monitoring results of radioactive cesium concentrations in water are as follows. Monitoring results for sediments (mud of the bottom of rivers, lakes, etc.) are shown in p.44 of Vol. 2, "Radioactive Material Monitoring in the Water Environment (River Sediments)" through to p.46 of Vol. 2, "Radioactive Material Monitoring in the Water Environment (Coastal Area Sediments)."

[Monitoring results of radioactive cesium concentrations in water]

River water samples (2,014 samples): Radioactive cesium concentrations were all below the detection limit.

Lake/reservoir water samples (1,409 samples): Radioactive cesium concentrations were all below the detection limit except for those in 8 samples collected at 2 locations in the Hamadori District and 1 sample collected at 1 location in the Nakadori District, Fukushima Prefecture.

Coastal samples (534 samples): Radioactive cesium concentrations were all below the detection limit.

• At all locations where radioactive cesium or strontium was detected, amounts of suspended solids (SS) and turbidity were relatively large.

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Radioactive Material Monitoring in the Water **Environment (River Sediments)**

Number of collected sar les] Fukushima Fukushima Fukushima Radioactive cesium Tochigi Iwate Miyagi Prefecture, Prefecture, Prefecture Ibaraki Gunma Chiba Saitama Tokyo Total Prefecture Hamadori Nakadori Prefecture Prefecture Prefecture Prefecture Alzu Prefecture Prefecture Metropolis [Bq/kg(dry)] District District District Less than 1,000 80 195 313 324 167 212 278 214 196 8 8 1,995 99.1% 1.000 or more 0 0 13 0 0 0 0 0 0 0.9% 1 18 but less than 2,000 2,000 or more 0 0 0 0 0 0 0 0 0 0 0.0% 1 1 but less than 3,000 3,000 or more 0 0 0 0 0 0 0 0 0 0 0 0 0.0% but less than 4,000 4,000 or more 0 0.0% 0 0 0 0 0 0 0 0 0 0 0 but less than 5,000 5,000 or more 0 0 0 0 0.0% 0 0 0 0 0 0 0 0 but less than 10,000 10,000 or more 0 0 0 0 0 0 0 ٥ ٥ 0 0 0 0.0% 2,014 Total 80 196 326 324 168 212 278 214 200 8 8 100.0%

Distribution of Radioactive Cesium Concentrations in River Sediments (FY2021)

Prepared based on the FY2021 Radioactive Material Monitoring in the Water Environment (Environmental Management Bureau, Ministry of the Environment)

Radioactive cesium concentrations in river sediments were measured in FY2021 as in the previous year.

A total of 2,014 samples, including 818 samples collected in Fukushima Prefecture and others collected in Iwate, Miyagi, Ibaraki, Tochigi, Gunma, Chiba and Saitama Prefectures and the Tokyo Metropolis, were surveyed.

The survey results showed that concentrations of radioactive cesium detected in approx. 99% of these samples were less than 1,000 Bq/kg (dry).

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Radioactive Material Monitoring in the Water Environment (Lake and Reservoir Sediments)

Distribution of Radioactive Cesium Concentrations in Lake and Reservoir Sediments (FY2021)

								[Number of	collected sam	ples]
Radioactive cesium concentrations [Bq/kg(dry)]	Miyagi Prefecture	Fukushima Prefecture, Hamadori District	Fukushima Prefecture, Nakadori District	Fukushima Prefecture, Aizu District	Ibaraki Prefecture	Tochigi Prefecture	Gunma Prefecture	Chiba Prefecture	Total	Percentage
Less than 1,000	74	113	50	158	76	29	82	28	610	73.0%
1,000 or more but less than 2,000	1	30	11	16	0	3	10	4	75	9.0%
2,000 or more but less than 3,000	0	13	4	10	0	0	2	0	29	3.5%
3,000 or more but less than 4,000	1	17	7	8	0	0	0	0	33	3.9%
4,000 or more but less than 5,000	0	7	1	2	0	0	0	0	10	1.2%
5,000 or more but less than 10,000	0	34	1	3	0	0	2	0	40	4.8%
10,000 or more	0	38	1	0	0	0	0	0	39	4.7%
Total	76	252	75	197	76	32	96	32	836	100.0%

Prepared based on the FY2021 Radioactive Material Monitoring in the Water Environment (Environmental Management Bureau, Ministry of the Environment)

Radioactive cesium concentrations in lake and reservoir sediments were measured in FY2021 as in the previous year.

A total of 836 samples, including 524 samples collected in Fukushima Prefecture and others collected in Miyagi, Ibaraki, Tochigi, Gunma and Chiba Prefectures, were surveyed.

The survey results showed that concentrations of radioactive cesium detected in approx. 73% of these samples were less than 1,000 Bq/kg (dry).

Included in this reference material on March 31, 2013 Updated on March 31, 2023



Radioactive Material Monitoring in the Water Environment (Coastal Area Sediments)

Distribution of Radioactive Cesium Concentrations in Coastal Area Sediments (FY2021)

						[Number of o	collected samp	les]
Radioactive cesium concentrations	Iwate	Miyagi	Fukushima	Ibaraki	Chiba	Tokyo	Total	Descente es
[Bq/kg(dry)]	Prefecture	Prefecture	Prefecture	Prefecture	Prefecture	Metropolis	Total	Percentage
Less than 1,000	4	52	150	20	23	18	267	100.0%
1,000 or more but less than 2,000	0	0	0	0	0	0	0	0.0%
2,000 or more but less than 3,000	0	0	0	0	0	0	0	0.0%
3,000 or more but less than 4,000	0	0	0	0	0	0	0	0.0%
4,000 or more but less than 5,000	0	0	0	0	0	0	0	0.0%
5,000 or more but less than 10,000	0	0	0	0	0	0	0	0.0%
10,000 or more	0	0	0	0	0	0	0	0.0%
Total	4	52	150	20	23	18	267	100.0%

Prepared based on the FY2021 Radioactive Material Monitoring in the Water Environment (Environmental Management Bureau, Ministry of the Environment)

Radioactive cesium concentrations in sediments in coastal areas were measured in FY2021 as in the previous year.

A total of 267 sediment samples collected in coastal areas, including 150 samples collected in Fukushima Prefecture and others collected in Iwate, Miyagi, Ibaraki, Chiba Prefectures and the Tokyo Metropolis, were surveyed.

The survey results showed that concentrations of radioactive cesium detected in all of these samples were less than 1,000 Bq/kg (dry).

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