Ministry of Education, Culture, Sports, Science and Technology

Results of Air Dose Rate Monitoring at Schools and the like in Fukushima Prefecture (Part 2) and Trends of the Measurement Results

Attachment 1 shows a list of results of measurements of air dose rates of schools and the like. in Fukushima Prefecture, executed on May 6 and 7. At two schools which exceeded 3.8  $\mu$ Sv/h until now, this measurements confirmed that they were below 3.8  $\mu$ Sv/h, but one other school once again exceeded 3.8  $\mu$ Sv/h. For these schools, the administrator of the school will consider an end to restrictions on outdoor activities, and the like. Also, one Children's Hall was newly added to the surveys this time and in the future, by request of the Ministry of Health, Labour and Welfare.

From April 14 to May 6, the Ministry of Education, Culture, Sports, Science and Technology obtained the cooperation of the Japan Atomic Energy Agency, and conducted measurements at schools, and the like in Fukushima Prefecture. Results for each school are shown as graphs in Attachment 2. The graphs show actual measurements at each school, and a theoretical decay curve based on soil analysis results as of April 14.

Also, the schools, and the like. (excluding Children's Halls), places subject to measurement are marked on a map shown in Attachment 3.

Analysis of measurement results indicates the following.

Decay basically according to a decay curve is seen for dose rates at the out of the schools (such as schoolyard), even though such countermeasures as surface soil removal have not been taken. There were higher measurements of dose rates at some schools, so we have to continue to monitor results carefully.

Rainfall was confirmed three times in Fukushima City during the measurement period. There were large amounts of rainfall on April 19 and 23, but large changes in measurements in schoolyards were not seen soon after rainfall. The effects of the light rain on the 28th are unclear.

There were large variations in values of laid concrete, which is being measured for reference values. The measurement points are fixed locations in principle, so it is conjectured that this is possibly due to comparatively more radioactive surface soil dust from the schoolyard and the like settling on the concrete.

For the schools and the like, where the surface soil of the schoolyard, etc. was removed, large decreasing was seen in air dose rates.

By continued monitoring, we are working to understand trends.

## List of Readings of Measurements of Air Dose Rates at Schools, etc. in Fukushima Prefecture Monitoring Date: May 6, 2011

No.	Location	Name of Schools Surveyed	Monitoring Time	Air Dose Rates (μS v / h)				Weather
				Average Values Outdoors in Schools Values of Laid Concrete				
1 Kariyama aitu				1 m	5 0 c m	1 m	5 0 c m	
1	Koriyama city	Koriyama Second Junior High School	9:52	1.0	1.0	1.3	1.7	Fair
2	Koriyama city	Saint-Paul's Kindergarten	10:36	1.1	1.0	1.4	1.6	Fair
3	Koriyama city	Kaoru Elementary School	11:20	0.9	0.9	0.8	0.9	Fair
4	Koriyama city	Koriyama First Junior High School	12:01	1.4	1.5	1.5	1.7	Fair
5	Koriyama city	Koriyama Third Junior High School	12:40	0.8	0.8	1.7	2.0	Fair
6	Motomiya city	Gohyakugawa Elementary School	12:50	2.9	3.0	1.1	0.9	Fair
7	Motomiya city	Motomiya 4th day-care center	12:30	2.8	3.1	1.3	1.4	Fair
8	Motomiya city	Wada Kindergarten	12:03	2.9	3.1	1.9	1.9	Fair
9	Motomiya city	Wada Elementary School	11:43	2.9	3.2	1.0	0.9	Fair
10	Nihonmatsu city	Ishii Kindergarten	13:13	2.8	2.9	1.8	1.7	Fair
11	Nihonmatsu city	Ishii Elementary School	12:58	2.9	3.0	1.8	1.9	Fair
12	Nihonmatsu city	Takeshita Elementary School	10:55	2.8	2.9	0.9	0.9	Fair
13	Nihonmatsu city	Matsugaoka day-care center	11:18	2.6	2.9	1.2	1.3	Fair
14	Nihonmatsu city	Sugita Elementary School	10:20	2.2	2.3	1.0	1.0	Fair
15	Nihonmatsu city	Sugita Kindergarten	10:05	2.8	3.1	1.5	1.3	Fair
16	Nihonmatsu city	Nihonmatsu Second Junior High School	11:48	1.5	1.4	1.5	1.8	Fair
17	Nihonmatsu city	Obama Junior High School	12:20	2.9	3.0	1.6	1.6	Fair
18	Fukushima city	Shimogawasaki Elementary School	11:30	2.9	3.1	2.1	2.1	Fair
19	Fukushima city	Okubo Elementary School	11:05	2.3	2.4	1.5	1.6	Fair
20	Fukushima city	Nankoudai Elementary School	10:25	2.7	2.8	1.9	2.0	Fair
21	Fukushima city	Onami Elementary School, Fukushima	10:43	3.1	3.4	2.1	2.2	Fair
22	Date city	Oguni Elementary School	11:15	0.8	0.8	2.0	2.4	Fair/Cloudy
23	Soma city	Tamano Kindergarten	12:02	2.9	3.1	1.6	1.8	Fair
24	Soma city	Tamano Junior High School	12:26	3.0	3.2	2.1	2.4	Fair
25	Soma city	Tamano Elementary School	12:02	2.9	3.1	1.6	1.8	Fair
26	Fukushima city	Okayama Elementary School	10:42	2.6	2.8	1.5	1.2	Fair
27	Fukushima city	Seishin Saniku day-care center	11:01	1.7	1.8	1.7	2.0	Fair
28	Fukushima city	Saniku Kindergarten	11:23	2.1	2.1	1.6	1.7	Fair

	Location	Name of Schools Surveyed	Monitoring Time	Air Dose Rates (μS v / h)					
No.				Average Va	alues Outdoors in Schools	Values of Laid Concrete		Weather	
				1 m	5 0 c m	1 m	5 0 c m		
29	Date city	Tominari Elementary School	12:38	0.7	0.7	1.8	1.7	Fair	
30	Fukushima city	Fukushima Yogo Gakko	10:45	2.4	2.7	1.2	1.4	Fair	
31	Fukushima city	Oyama day-care center	11:05	2.2	2.6	1.0	1.3	Fair	
32	Fukushima city	Oyama Elementary School	11:33	3.0	3.3	1.7	1.9	Fair	
33	Fukushima city	Shinryo Junior High School	11:55	2.2	2.4	0.9	0.9	Fair	
34	Fukushima city	Hirano Junior High School	12:30	2.3	2.6	1.0	1.2	Fair	
35	Fukushima city	Fukushima Second Junior High School	11:30	3.2	3.5	1.3	1.4	Fair	
36	Fukushima city	Fukushima University attached Kindergarten	8:24	2.8	3.1	1.3	1.4	Cloudy	
37	Fukushima city	Fukushima University attached Junior High School	8:48	2.8	3.2	1.4	1.5	Cloudy	
38	Fukushima city	Fukushima Seikei Junior High School	12:06	3.0	3.2	1.7	2.0	Fair	
39	Fukushima city	Gakuyo Junior High School	9:11	2.3	2.5	1.2	1.3	Fair	
40	Fukushima city	Fukushima First Junior High School	8:22	2.8	3.1	1.7	1.7	Fair	
41	Fukushima city	Fukushima Third Elementary School	11:00	3.1	3.3	1.7	1.6	Fair	
42	Fukushima city	Fukushima Second Elementary School	9:16	2.7	3.0	1.4	1.4	Fair	
43	Fukushima city	Sakura no Seibo Gakuin Kindergarden	9:42	2.4	2.9	1.8	2.1	Fair	
44	Fukushima city	Sakura no Seibo Gakuin Elementary School	9:53	2.6	3.1	1.5	1.8	Fair	
45	Fukushima city	Fukushima University attached Elementary School	10:32	2.6	3.0	1.8	2.1	Fair	
46	Fukushima city	Fukushima Prefectural School for the Blind	9:49	2.3	2.6	0.9	1.0	Fair	
47	Fukushima city	Watari day-care center	10:30	3.0	3.5	2.0	2.0	Fair	
48	Fukushima city	Kodomo no Ie Soramame	10:55	2.5	3.0	1.9	2.0	Fair	
49	Fukushima city	Watari Junior High School	11:20	3.9	4.3	1.6	1.6	Fair	
50	Fukushima city	Watari Kindergarten	12:15	3.3	3.7	2.2	2.1	Fair	
51	Fukushima city	Sakura day-care center	12:40	2.7	3.0	1.2	1.7	Fair	
52	Fukushima city	Watari Elementary School	13:05	3.2	3.6	2.0	2.3	Fair	
53	Fukushima city	Toryo High School	10:28	2.9	3.0	1.4	1.3	Fair	
54	Fukushima city	Seikei High School	12:06	3.0	3.2	1.9	2.2	Fair	
55	Fukushima city	Tachibana High School	11:07	2.7	3.1	1.5	1.7	Fair	
56	Date city	Ryozen Kodomonomura Children's Center	12:55	3.5	3.7	2.8	3.0	Fair	

The air dose at 50 cm above ground was monitored outdoors in schools at nurseries, kindergartens and elementary schools, in consideration of short height.

The air dose at 1 m above ground was monitored at junior high schools. Encircled figures show that measurements this time exceeded 3.8  $\mu$ Sv/h. Underlined school names show where measurements this time confirmed that they were below 3.8  $\mu$ Sv/h.

## List of Readings of Measurements of Air Dose Rates at Schools, etc. in Fukushima Prefecture

Monitoring Date: May 7, 2011

		Name of Schools Surveyed	Monitoring Time	Air Dose Rates (μSv/h)				
No.	Location			Average	Values Outdoors in School	Values of Laid Concrete		Weather
				1m	50cm	1m	50cm	
22	Date city	Oguni Elementary School	9:29	0.9	0.8	2.2	2.4	Cloudy
29	Date city	Tominari Elementary School	8:56	0.7	0.7	1.8	1.8	Cloudy
56	L late city	Ryozen Kodomonomura Children's Center	10:33	3.2	3.5	2.5	2.6	Cloudy

The air dose at 50 cm above ground was monitored outdoors in schools at nurseries, kindergartens and elementary schools, in consideration of short height.

The air dose at 1 m above ground was monitored at junior high schools.

















































































































