

## Results of dose rate measurement at schools in Fukushima Pref

Surveyed on May 12, 2011 (only Watari junior high school: May 13)

| No. | City            | Name of School   | Investigation time | Air dose rate ( $\mu\text{Sv/h}$ ) |      |                                       |      |                               |      |        |      | Remarks                             | Weather |
|-----|-----------------|--|--------------------|------------------------------------|------|---------------------------------------|------|-------------------------------|------|--------|------|-------------------------------------|---------|
|     |                 |  |                    | Average value outside the building |      | Value at the place of concrete paving |      | Mean value in classroom etc.* |      |        |      |                                     |         |
|     |                 |  |                    | 1m                                 | 50cm | 1m                                    | 50cm | Window side                   |      | Center |      |                                     |         |
|     |                 |  |                    |                                    |      |                                       |      | 1m                            | 50cm | 1m     | 50cm |                                     |         |
| 1   | Koriyama city   | Koriyama municipal Koriyama Daini junior high school     | 10:39              | 0.9                                | 1.0  | 1.3                                   | 1.6  | 0.2                           | 0.1  | 0.1    | 0.1  |                                     | Rain    |
| 2   | Koriyama city   | St-paul kindergarten                                     | 11:49              | 0.9                                | 0.9  | 1.0                                   | 1.1  | 0.6                           | 0.5  | 0.4    | 0.4  |                                     | Cloudy  |
| 3   | Koriyama city   | Koriyama municipal Kaoru elementary school               | 13:10              | 1.3                                | 1.5  | 0.6                                   | 0.7  | 0.2                           | 0.1  | 0.2    | 0.1  |                                     | Cloudy  |
| 4   | Koriyama city   | Koriyama municipal Koriyama Daiichi junior high school   | 14:27              | 1.3                                | 1.4  | 1.1                                   | 1.2  | 0.3                           | 0.1  | 0.2    | 0.1  |                                     | Cloudy  |
| 5   | Koriyama city   | Koriyama municipal Koriyama Daisan junior high school    | 15:21              | 0.8                                | 1.0  | 1.7                                   | 2.2  | 0.2                           | 0.1  | 0.1    | 0.1  |                                     | Cloudy  |
| 6   | Motomiya city   | Motomiya municipal Gohyakugawa elementary school         | 10:40              | 2.6                                | 2.6  | 2.3                                   | 2.5  | 0.4                           | 0.3  | 0.2    | 0.1  |                                     | Cloudy  |
| 7   | Motomiya city   | Motomiya Daiyon nursery                                  | 11:06              | 2.5                                | 2.6  | 1.0                                   | 1.2  | 0.6                           | 0.5  | 0.4    | 0.4  |                                     | Cloudy  |
| 8   | Motomiya city   | Motomiya municipal Wada kindergarten                     | 11:50              | 2.7                                | 2.9  | 1.1                                   | 1.1  | 0.7                           | 0.6  | 0.5    | 0.5  |                                     | Cloudy  |
| 9   | Motomiya city   | Motomiya municipal Wada elementary school                | 12:08              | 2.7                                | 2.9  | 1.9                                   | 2.0  | —                             | —    | —      | —    | It is not possible to enter a room. | Cloudy  |
| 10  | Nihonmatsu city | Nihonmatsu municipal Ishii kindergarten                  | 13:27              | 1.4                                | 1.4  | 1.3                                   | 1.4  | 0.5                           | 0.5  | 0.2    | 0.2  |                                     | Cloudy  |
| 11  | Nihonmatsu city | Nihonmatsu municipal Ishii elementary school             | 12:58              | 2.7                                | 2.9  | 1.7                                   | 1.9  | 0.4                           | 0.2  | 0.2    | 0.1  |                                     | Cloudy  |
| 12  | Nihonmatsu city | Nihonmatsu municipal Dakeshita elementary school         | 11:47              | 2.4                                | 2.6  | 0.9                                   | 0.9  | 0.4                           | 0.2  | 0.2    | 0.1  |                                     | Cloudy  |
| 13  | Nihonmatsu city | Matsugaoka nursery                                       | 12:18              | 2.2                                | 2.5  | 1.0                                   | 1.1  | 0.4                           | 0.3  | 0.2    | 0.2  |                                     | Cloudy  |
| 14  | Nihonmatsu city | Nihonmatsu municipal Sugita elementary school            | 11:14              | 1.8                                | 1.9  | 1.3                                   | 1.2  | 0.4                           | 0.2  | 0.2    | 0.1  |                                     | Cloudy  |
| 15  | Nihonmatsu city | Nihonmatsu municipal Sugita kindergarten                 | 10:45              | 2.3                                | 2.4  | 0.9                                   | 0.8  | 0.5                           | 0.4  | 0.2    | 0.2  |                                     | Cloudy  |
| 16  | Nihonmatsu city | Nihonmatsu municipal Nihonmatsu Daini junior high school | 13:00              | 1.0                                | 1.1  | 1.1                                   | 1.2  | 0.4                           | 0.3  | 0.2    | 0.2  |                                     | Cloudy  |
| 17  | Nihonmatsu city | Nihonmatsu municipal Obama junior high school            | 13:46              | 2.2                                | 2.3  | 1.2                                   | 1.3  | 0.4                           | 0.2  | 0.2    | 0.2  |                                     | Cloudy  |
| 18  | Fukushima city  | Fukushima municipal Shimokawasaki elementary school      | 11:39              | 3.0                                | 3.3  | 2.2                                   | 2.4  | 0.6                           | 0.5  | 0.2    | 0.2  |                                     | Cloudy  |
| 19  | Fukushima city  | Fukushima municipal Okubo elementary school              | 12:59              | 2.4                                | 2.7  | 1.6                                   | 1.7  | 0.2                           | 0.2  | 0.2    | 0.1  |                                     | Cloudy  |
| 20  | Fukushima city  | Fukushima municipal Nankoudai elementary school          | 13:49              | 3.0                                | 3.4  | 1.8                                   | 2.2  | 0.3                           | 0.2  | 0.1    | 0.1  |                                     | Rain    |
| 21  | Fukushima city  | Fukushima municipal Ohnami elementary school             | 11:45              | 3.0                                | 3.4  | 2.0                                   | 2.1  | 0.6                           | 0.5  | 0.3    | 0.3  |                                     | Cloudy  |
| 22  | Date city       | Date municipal Oguni elementary school                   | 12:20              | 1.0                                | 0.9  | 2.0                                   | 2.2  | 0.8                           | 0.6  | 0.3    | 0.2  |                                     | Cloudy  |
| 23  | Soma city       | Tamano kindergarten                                      | 14:04              | 2.8                                | 3.0  | 1.9                                   | 2.0  | 0.6                           | 0.5  | 0.2    | 0.2  |                                     | Cloudy  |
| 24  | Soma city       | Tamano junior high school                                | 14:31              | 3.0                                | 3.2  | 1.9                                   | 2.2  | 0.4                           | 0.4  | 0.2    | 0.1  |                                     | Cloudy  |
| 25  | Soma city       | Tamano elementary school                                 | 14:04              | 2.8                                | 3.0  | 1.9                                   | 2.0  | 0.7                           | 0.6  | 0.2    | 0.2  |                                     | Cloudy  |
| 26  | Fukushima city  | Fukushima municipal Okayama elementary school            | 11:30              | 2.4                                | 2.8  | 1.5                                   | 1.1  | 0.3                           | 0.2  | 0.2    | 0.2  |                                     | Cloudy  |
| 27  | Fukushima city  | Seishin saniku nursery                                   | 12:10              | 1.6                                | 1.9  | 1.7                                   | 2.0  | 0.6                           | 0.5  | 0.2    | 0.2  |                                     | Cloudy  |
| 28  | Fukushima city  | Saniku kindergarten                                      | 12:50              | 2.5                                | 2.5  | 1.4                                   | 1.6  | 0.7                           | 0.7  | 0.5    | 0.4  |                                     | Cloudy  |
| 29  | Date city       | Date municipal Tominari elementary school                | 14:10              | 0.7                                | 0.7  | 1.6                                   | 1.7  | 0.4                           | 0.2  | 0.2    | 0.2  |                                     | Cloudy  |
| 30  | Fukushima city  | Fukushima municipal Fukushima special school             | 14:32              | 2.5                                | 2.7  | 1.0                                   | 1.0  | 0.4                           | 0.3  | 0.2    | 0.2  |                                     | Cloudy  |
| 31  | Fukushima city  | Oyama nursery  | 13:52              | 2.3                                | 2.5  | 1.0                                   | 1.3  | 0.6                           | 0.5  | 0.2    | 0.2  |                                     | Cloudy  |
| 32  | Fukushima city  | Fukushima municipal Oyama elementary school              | 13:13              | 3.1                                | 3.3  | 1.8                                   | 2.1  | 0.3                           | 0.2  | 0.2    | 0.1  |                                     | Cloudy  |
| 33  | Fukushima city  | Fukushima municipal Shinryo junior high school           | 12:23              | 2.1                                | 2.2  | 1.5                                   | 1.4  | 0.4                           | 0.2  | 0.2    | 0.1  |                                     | Cloudy  |
| 34  | Fukushima city  | Fukushima municipal Hirano junior high school            | 11:38              | 2.3                                | 2.5  | 1.0                                   | 1.1  | 0.2                           | 0.2  | 0.1    | 0.1  |                                     | Cloudy  |
| 35  | Fukushima city  | Fukushima municipal Fukushima Daini junior high school   | 14:01              | 3.0                                | 3.2  | 1.9                                   | 2.1  | 0.8                           | 0.3  | 0.2    | 0.2  |                                     | Cloudy  |
| 36  | Fukushima city  | Fukushima University attached kindergarten               | 13:04              | 2.8                                | 3.1  | 0.9                                   | 1.0  | 0.7                           | 0.6  | 0.3    | 0.3  |                                     | Cloudy  |

| No. | City           | Name of School  | Investigation time | Air dose rate ( $\mu$ Sv/h)        |      |                                       |      |                               |      |        |      | Remarks                             | Weather |
|-----|----------------|---|--------------------|------------------------------------|------|---------------------------------------|------|-------------------------------|------|--------|------|-------------------------------------|---------|
|     |                |   |                    | Average value outside the building |      | Value at the place of concrete paving |      | Mean value in classroom etc.* |      |        |      |                                     |         |
|     |                |   |                    |                                    |      |                                       |      | Window side                   |      | Center |      |                                     |         |
|     |                |   |                    | 1m                                 | 50cm | 1m                                    | 50cm | 1m                            | 50cm | 1m     | 50cm |                                     |         |
| 37  | Fukushima city | Fukushima University attached junior high school                            | 13:30              | 2.8                                | 2.9  | 1.4                                   | 1.4  | 0.6                           | 0.2  | 0.2    | 0.2  |                                     | Cloudy  |
| 38  | Fukushima city | Fukushima Seikei junior high school   | 11:39              | 3.1                                | 3.3  | 1.7                                   | 1.9  | 0.3                           | 0.2  | 0.1    | 0.1  |                                     | Cloudy  |
| 39  | Fukushima city | Fukushima municipal Gakuyou junior high school                              | 14:46              | 2.2                                | 2.3  | 1.0                                   | 1.1  | 0.3                           | 0.1  | 0.1    | 0.1  |                                     | Cloudy  |
| 40  | Fukushima city | Fukushima municipal Fukushima Daiichi junior high school                    | 15:30              | 2.7                                | 2.9  | 1.4                                   | 1.5  | 0.5                           | 0.4  | 0.1    | 0.1  |                                     | Cloudy  |
| 41  | Fukushima city | Fukushima municipal Fukushima Daisan elementary school                      | 12:14              | 2.8                                | 3.2  | 1.7                                   | 1.7  | 0.3                           | 0.2  | 0.2    | 0.1  |                                     | Cloudy  |
| 42  | Fukushima city | Fukushima municipal Fukushima Daini elementary school                       | 13:14              | 2.5                                | 2.8  | 1.6                                   | 1.6  | 0.4                           | 0.2  | 0.2    | 0.2  |                                     | Cloudy  |
| 43  | Fukushima city | Sakuranoseibogakuin kindergarten  | 13:54              | 2.3                                | 2.7  | 1.7                                   | 1.8  | —                             | —    | —      | —    | It is not possible to enter a room. | Cloudy  |
| 44  | Fukushima city | Sakuranoseibogakuin elementary school                                       | 13:44              | 2.6                                | 2.9  | 1.4                                   | 1.7  | 0.5                           | 0.2  | 0.2    | 0.1  |                                     | Cloudy  |
| 45  | Fukushima city | Fukushima University attached elementary school                             | 14:29              | 2.5                                | 2.8  | 1.6                                   | 2.1  | 0.4                           | 0.3  | 0.1    | 0.1  |                                     | Cloudy  |
| 46  | Fukushima city | Fukushima prefectural school for the blind                                  | 15:32              | 2.2                                | 2.5  | 0.7                                   | 0.7  | 0.4                           | 0.3  | 0.2    | 0.2  |                                     | Rain    |
| 47  | Fukushima city | Watari nursery  | 11:19              | 2.6                                | 2.9  | 1.7                                   | 1.7  | 0.8                           | 0.8  | 0.6    | 0.5  |                                     | Cloudy  |
| 48  | Fukushima city | Kodomonoie soramame nursery   | 11:43              | 2.3                                | 2.7  | 1.7                                   | 1.7  | 0.8                           | 0.7  | 0.7    | 0.6  | Average date of two classrooms      | Cloudy  |
| 49  | Fukushima city | <u>Fukushima municipal Watari junior high school (Measurement day:5/12)</u> | 12:03              | 3.4                                | 3.8  | 1.1                                   | 1.1  | 0.4                           | 0.2  | 0.2    | 0.2  | Measured, only one classroom        | Cloudy  |
|     |                | <u>Fukushima municipal Watari junior high school (Measurement day:5/13)</u> | 10:29              | 3.2                                | 3.5  | 1.1                                   | 1.2  | 0.9                           | 0.2  | 0.2    | 0.2  | Measured, only one classroom        | Cloudy  |
| 50  | Fukushima city | Fukushima municipal Watari kindergarten                                     | 12:53              | 2.8                                | 3.2  | 2.0                                   | 2.2  | 0.8                           | 0.7  | 0.5    | 0.4  |                                     | Cloudy  |
| 51  | Fukushima city | Sakura nursery  | 13:31              | 2.2                                | 2.5  | 1.0                                   | 1.3  | 0.4                           | 0.3  | 0.1    | 0.1  | Measured, only one classroom        | Cloudy  |
| 52  | Fukushima city | Fukushima municipal Watari elementary school                                | 14:00              | 2.8                                | 3.1  | 1.8                                   | 2.1  | 0.3                           | 0.2  | 0.2    | 0.1  |                                     | Cloudy  |
| 53  | Fukushima city | Toryo high school   | 11:28              | 2.8                                | 3.0  | 1.3                                   | 1.3  | 0.3                           | 0.2  | 0.2    | 0.1  |                                     | Cloudy  |
| 54  | Fukushima city | Seikei high school  | 11:39              | 3.1                                | 3.3  | 1.6                                   | 1.7  | 0.2                           | 0.1  | 0.1    | 0.1  |                                     | Cloudy  |
| 55  | Fukushima city | Tachibana high school   | 15:00              | 2.6                                | 2.8  | 1.4                                   | 1.5  | 0.5                           | 0.4  | 0.1    | 0.1  |                                     | Cloudy  |
| 56  | Date city      | Ryozen Kodomonomura Children's Center                                       | 13:27              | 3.4                                | 3.6  | 2.9                                   | 3.0  | 0.7                           | 0.6  | 0.6    | 0.5  | Measured it in the museum.          | Cloudy  |

As for day nursery, kindergarten and elementary school, the numerical values was judged from the point measured away from 50cm,considering children's height. As for junior high school, the numerical value was judged from the point measured away from 1m.

Underlined schools: Schools that were determined whether the air dose rate would fall below 3.8  $\mu$  Sv/h.

\* : Mean value in classroom: Average of 3 measurements of any classroom

# Radiation in Daily-life

※Unit :  $\mu\text{Sv}$



※  $\text{Sv}$  [Sievert] = Constant of organism effect by kind of radiation (※)  $\times$  Gy [gray]

※ It is 1 in case of X ray and  $\gamma$  ray.