

## **(2) Results of the Decontamination Demonstration Project**

### **Analysis and Evaluation of Data Obtained in the Decontamination Demonstration Project - Planning and Follow-up of Decontamination Program -**

Briefing Meeting on the Results of the Decontamination Demonstration Project  
26 March 2012, Fukushima City Public Hall

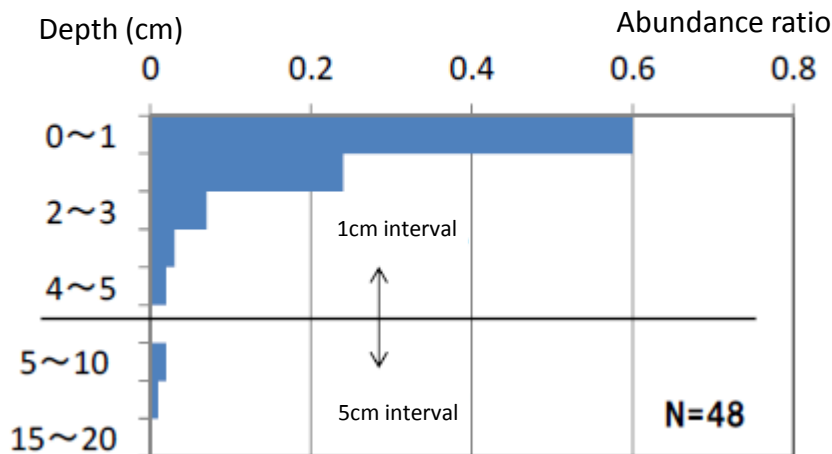
Organized by: Nuclear Sufferers Life Support Team, Cabinet Office  
Ministry of the Environment  
Japan Atomic Energy Agency

# Technical Experiences: Vertical profile of Radiocesium 1

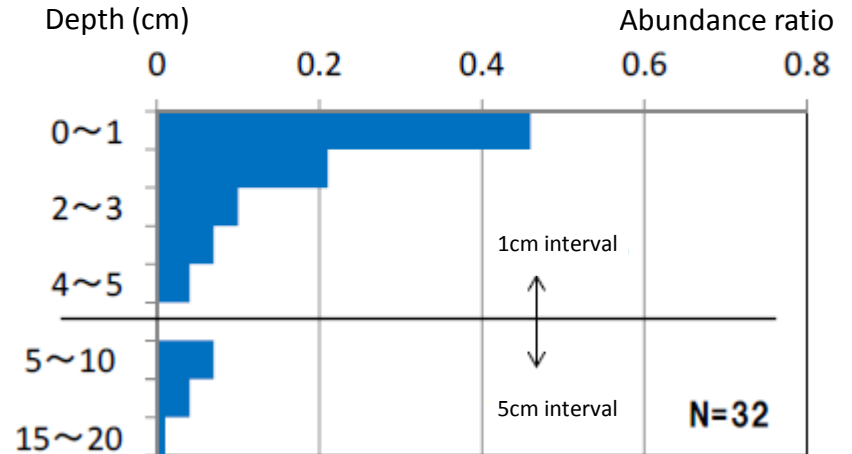
## ① Findings on the vertical profile in the soil

- The decontamination demonstration project has shown that at most measurement points more than 80% of the radiocesium remained in about a 5 cm deep layer below the ground surface.
- The radioactivity concentration (Bq/kg) of radiocesium and its distribution varied depending on the measurement points (contamination level) and soil conditions there.

**School and playground**



**Agricultural land**

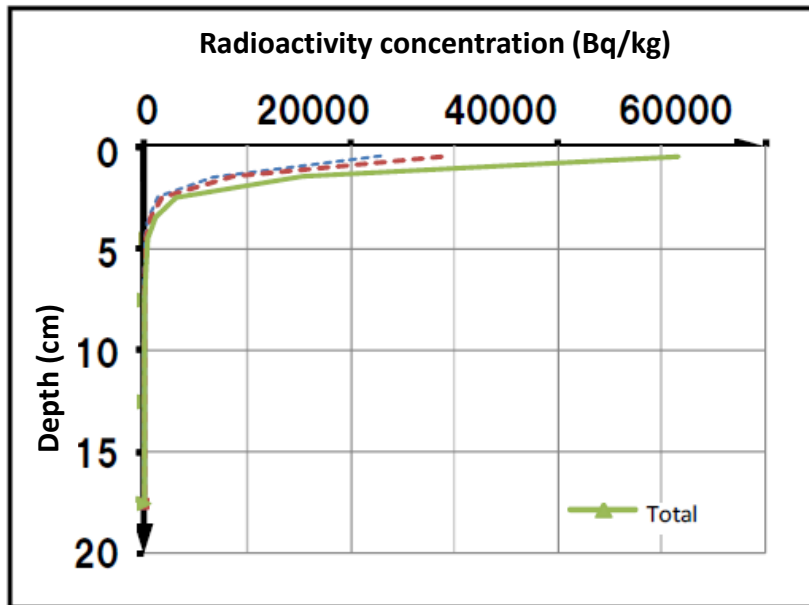


Abundance ratio: Integrated amount of measured radioactivity concentration (Bq/kg) from the ground surface to 20 cm in depth is set as 1.

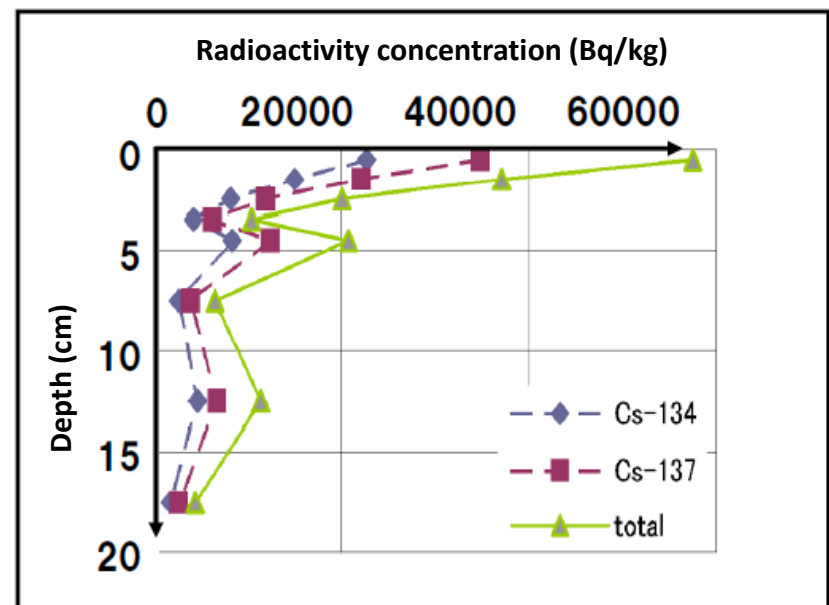
## (2)-1 Deposition of Radiocesium in Agricultural Land

### Variation in the amount of diffused/residual radiocesium

◆ Radiocesium traveled deeper into paddy fields that had been plowed just before the accident than those not plowed. The concentration also varied depending on the irregularity of the ground surface such as wheel tracks of tractors, etc.



Vertical profile of radiocesium in land in general



Vertical profile of radiocesium in land plowed before the accident (about February 2011)

\*Errors associated with sampling methods and measurement procedures, etc. are included in the data of radioactivity concentration

## (3)-3-1 Deposition of Radiocesium in Playgrounds

### Variation in the amount of diffused/residual radiocesium

- ◆ For parks and playgrounds, more than 90% of the radiocesium remained in about a 3-5 cm deep layer from the ground surface at most measurement points (37 out of 40 points).
- ◆ In the other 3 points, 90% of the radiocesium remained in the layer to 8 cm in depth.

