

Food Safety

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GM survey meter

Dispatch to Fukushima prefecture
for the member of the survey team.
March 26th ~ April 3rd 2011



measurement



Survey team

How to protect radioactive substances

- **Distance**

Fukushima power plant-Hokkaido(south end) 400km

Fukushima power plant-Sapporo around 700km

Three mile island-New York 241km

- **Screen, cover**

- **Time**

Today's contents

- Air dose rate of radioactive substances in Hokkaido (monitoring post)
- Radioactive substance test for agricultural, animal, aquatic products around Fukushima prefecture
- Monitoring of radioactive substances for fish in Hokkaido

1) Measurement of radioactive substances

- Purpose :
 - to monitor the baseline of radioactive substances in the air and falling matter
 - to find the influence of the Fukushima nuclear electric power stations

Air dose rate of radioactive substances

- Time : every hour
(from 17:00, March 12th 2011)
- Place : North 19, West 12, North ward
Sapporo city Hokkaido, Japan
at latitude 43 north and longitude 141 east
- Result (as of 09:00, April 20th 2011)
27-45 nGy/h (average 29) ▪ ▪ ▪ normal range
in the past 20-105 nGy/h

Expansion of objectives

- If air dose rate of radioactive substances were detected over the reference value, we would expand the objectives; soil, rice, vegetables, milk, fish, sea water and tap water etc.

- Web site

data (Japan)

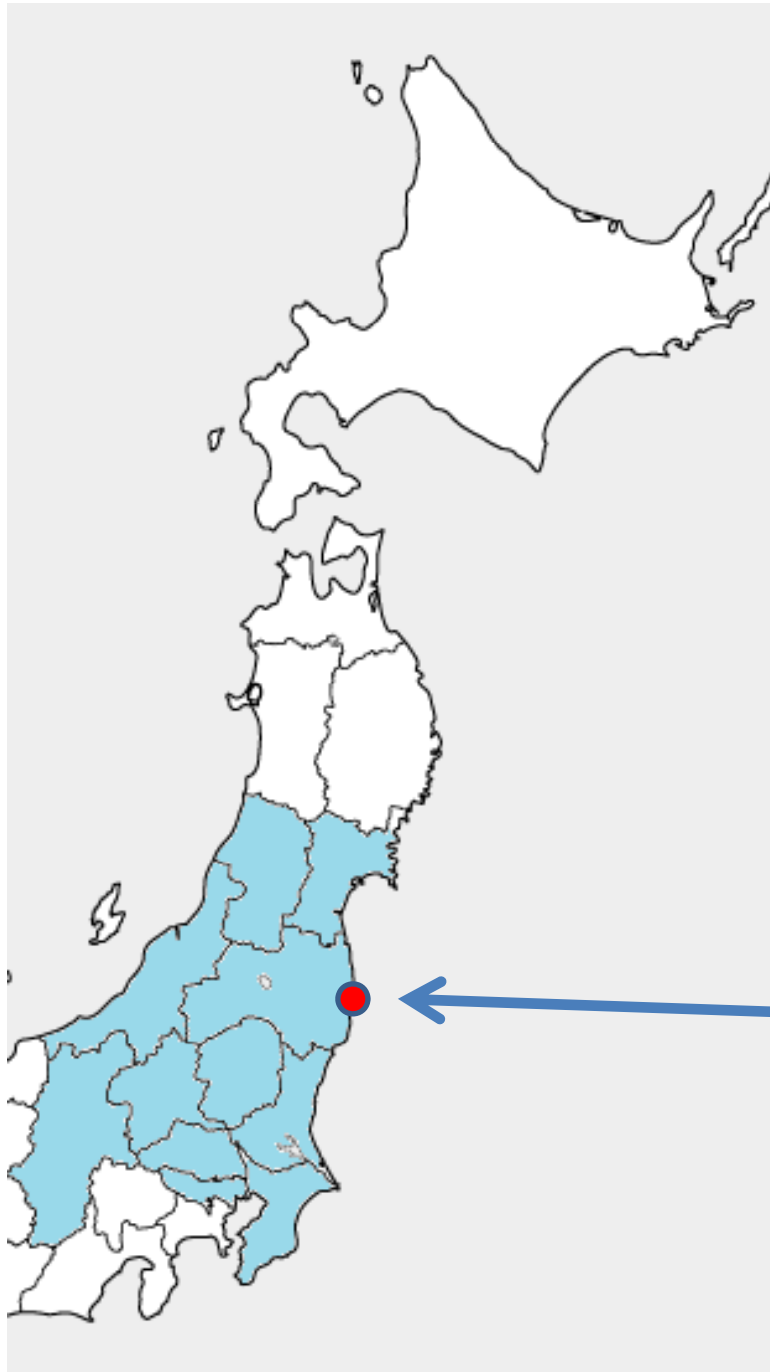
http://www.mext.go.jp/a_menu/saigaijohou/syousai/1303956.htm

data(Hokkaido)

http://www.iph.pref.hokkaido.jp/eiken_housyanou/eiken_housyanou.htm

2) Radioactive substance test for agricultural, animal, aquatic products around Fukushima prefecture

- The test is conducted in 11 prefectures around Fukushima prefecture where radioactive leakage from the nuclear plant occurred.
- If the radioactive substance were detected over the reference value of the products, the distribution of the products would be strictly **prohibited**.

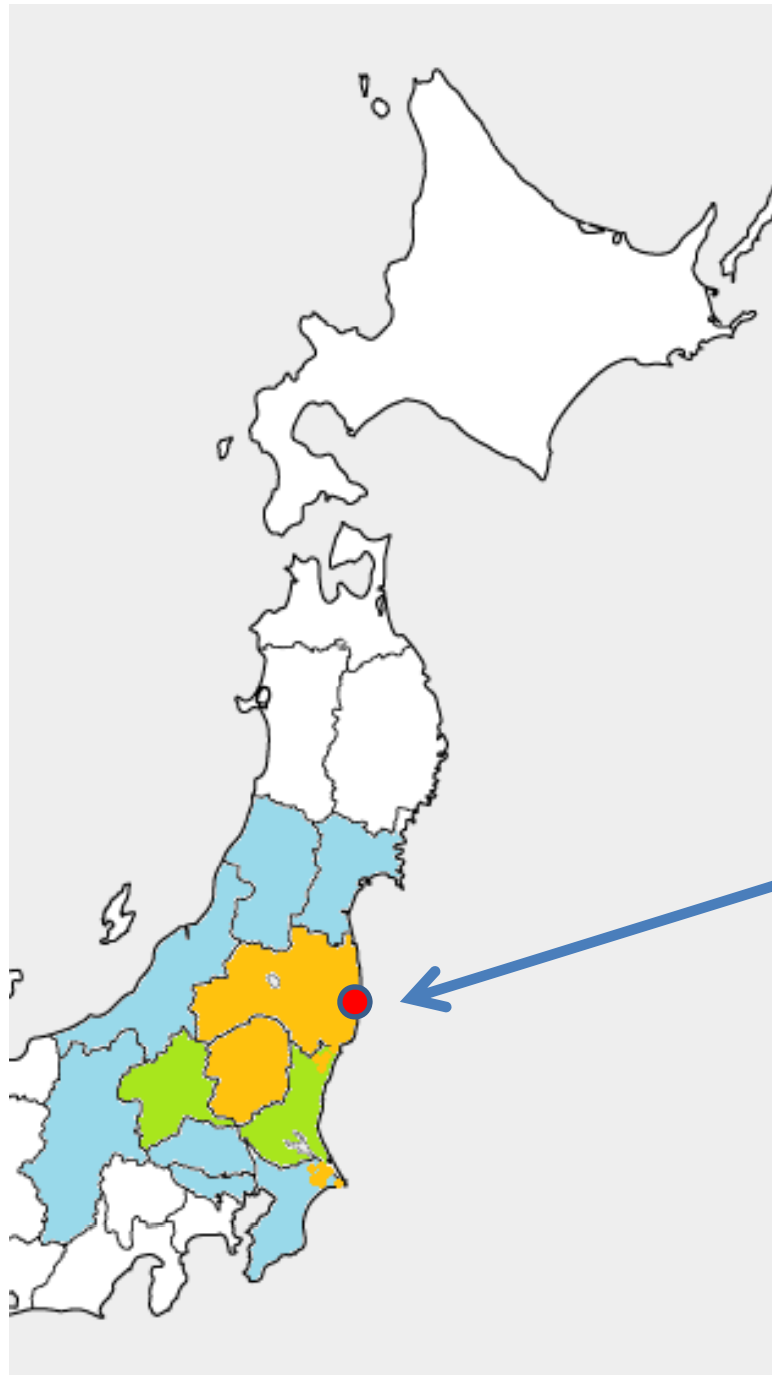


The 11 prefectures
that conducted
radioactive
substance test

Fukushima daiichi electric plant

As of 21st April 2011

The 11 prefectures that conducted radioactive substance test



Fukushima daiichi electric plant



Area restricting distribution



Area previously restricting distribution



Area with no restrictions

Restricted Food

Milk		Miluku	牛乳
Leafy vegetables	Spinach	Hohrensoh	ホウレン草
	Kakina	Kakina	カキナ
	Garland chrysanthemum	Syungiku	春菊
	Ging-geng-cai	Chingensai	青梗菜
	Sanchu (Asian lettuce)	Sanchu	サンチュ
	Other		
Ball-like leaf vegetable	Cabbage	Kyabetsu	きゃべつ
Cauliflower & broccoli		カリフラワー	ブロッコリー
Turnip		Kabu	カブ
Parsley		Paseri	パセリ
Celery		Serori	セルリー
Shiitake (alley) mushroom		Shiitake	しいたけ
Fish	young lancefish	Kounago	こうなご

<http://www.mhlw.go.jp/stf/houdou/2r9852000001a0vw-att/2r9852000001a11y.pdf>

As of 21th April 2011

Why should so many leafy vegetables be restricted for distribution?

- Because the radioactive substances precipitate on farm vegetables.
- The reference value shows the amount per weight of radioactive substances, so, the larger the surface area of leaf, the more radiation.

3)Monitoring of radioactive substances for fish in Hokkaido

- As a cautionary measure, the Hokkaido government has tested the radioactive substances in many kinds of food; rice, vegetables, milk, fish, and also, soil, sea water and tap water etc.
- All tests have shown negative, or less than the reference value, but we will continue careful monitoring.

Monitoring test



Date: April 15th

Fish: Salmon

Place: Pacific Ocean

Result

Date	fish	place	I-131	Cs-137
4/15	salmon	Pacific	ND	0.45
R.V.			2000 Bq/kg	500 Bq/kg

Cs-137 was less than a thousandth of the reference value.

FAQ

- Q1. Is distributed food safe to eat in Hokkaido ?
- A1. Distribution of food showing radiation doses over the reference value is strictly restricted by the Act on Special Measures concerning Nuclear Emergency Preparedness.

According Fukushima Prefecture, it is impossible to distribute the agricultural products from the evacuated area around the electric plant.

- Q2. If we unknowingly eat the food over recommended radiation dose, does it influence an individual's health immediately ?
- A2. Distribution of food showing radiation doses over reference values are strictly limited by the Law.

- Q3. Is it safe to use tap water for drink or for bathing ?
- A3. We measured radioactive substance in tap water at every prefecture in Japan and if abnormal values were detected , we would alert residents to take all necessary steps not to use it.
(e.g., For infants, use a bottled water.)
- In the present situation, in Hokkaido, there is no need to worry about using tap water.

Tap water test

- In Sapporo city, March 18th ~ April 25th
- In the other area : Hakodate, Wakkanai, Obihiro, Nemuro, April 25th
- Frequency: Sapporo city every day
Other area once a month
- All tests have shown negative of I-131 and Cs-137.

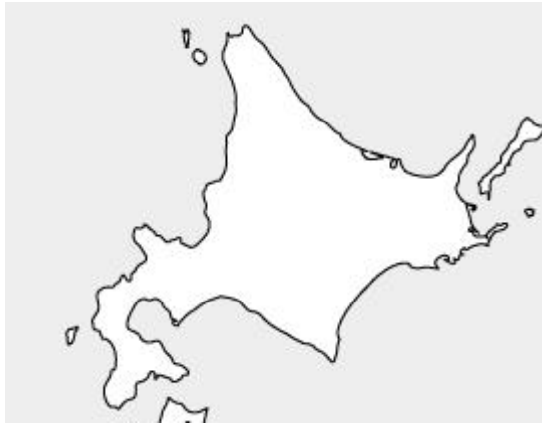
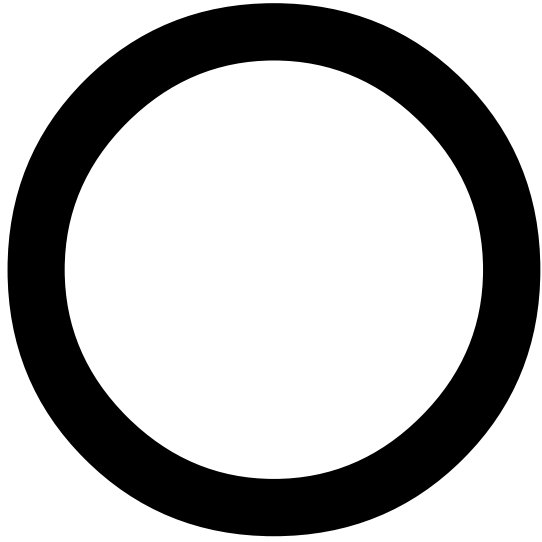
As of April 26th 16:00

Food Safety Commission

- FAQ:

http://fsc.go.jp/sonota/emerg/emerg_QA.pdf

as of 22nd April 2011, sorry Japanese only



Thank you for your attention!

