Implementation Status and Results of Food Inspections (Pre-shipping and during circulation)

November 8, 2016
Environmental Conservation & Agriculture Section
Fukushima Prefectural Government

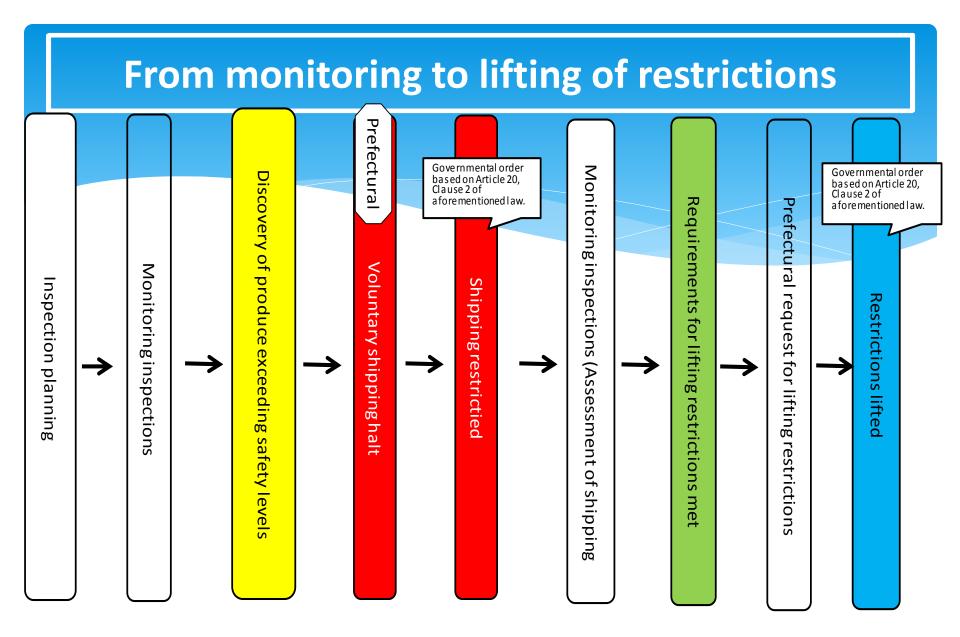


Safety limits of radioactive cesium in food

Japan -	(Bq/kg)
Food in general	100
Milk	50
Baby foods	50
Drinking water	10

Monitoring of agricultural, forestry and fishery products in times of emergency

- * Fukushima Prefecture has implemented measures according to guidelines of the Nuclear Emergency Response Headquarters established on the basis of the Act on Special Measures Concerning Nuclear Emergency Preparedness.
- * Shipping restrictions prohibiting distribution are implemented generally by prefecture or district, or by municipality if possible, if produce exceeding safety limits is discovered.
- * Generally at least three items of a product are inspected per municipality (at least one in some circumstances).
- * Fundamental food products and products consumed in large quantities are inspected with higher frequency.
- Inspection frequency is increased based on earlier measurement results.
- Measurements are performed with a germanium semiconductor detector.
- Measurement results are reported and publicized without delay.
- Shipping restrictions are enforced with shipping management surveys.

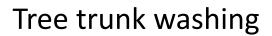


Based on "Concepts of Inspection Planning and the Establishment and Cancellation of Items and Areas to which Restriction of Distribution and/or Consumption of Foods concerned Applies" (Nuclear Emergency Response Headquarters, March 30 2015)

Post-disaster efforts

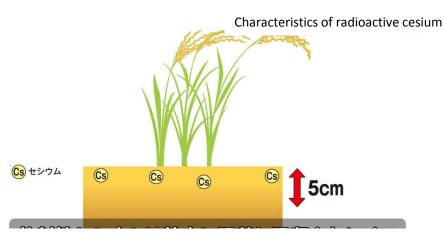


Bark washing



Post-disaster efforts (reverse tillage)

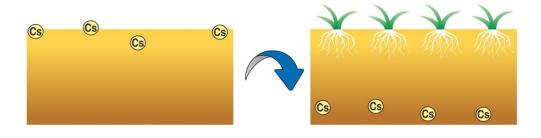




Soil particles adsorb radioactive cesium, concentrating most of it within five centimeters from the surface

Copyright©:福島県 Fukushima Prefectural Government





Reverse tillage

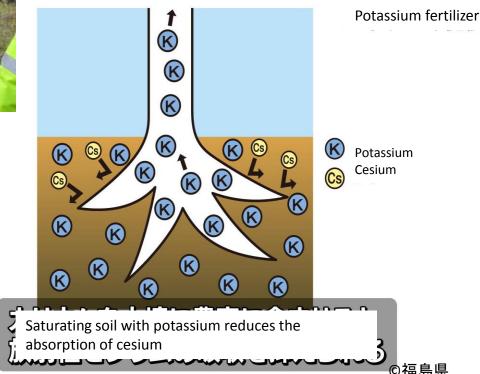
Soil is flipped around, and replacing top soil with soil from deeper layers

Post-disaster efforts (blocking cesium absorption)



塩化加里

 Spraying absorption inhibitor (potassium fertilizer)



Monitoring inspection progress

- * March 16, 2011: Monitoring begins, measurements are conducted by the Japan Chemical Analysis Center in Chiba
- June 20, 2011: Four germanium semiconductor analyzers are installed and begin operation at the Fukushima Agricultural Technology Center
- * July 11, 2011: The "Implementation policy for emergency environmental radiation monitoring of agricultural, forestry and fishery products" is established
- September 1, 2011: Analysis division is established at the Fukushima Agricultural Technology Center, and six additional germanium semiconductor analyzers are installed
- * April, 2012: Provisional safety level values of the Food Sanitation Act are replaced with new safety limits
- March, 2016: One additional germanium semiconductor analyzer is installed at the Fukushima Agricultural Technology Center, for a total of 11 devices.

Fukushima Prefectural Framework for Emergency Monitoring Inspections of Agricultural, Forestry and Fishery Products

Setting and lifting restrictions

National (Ministry of Health, Labour and Welfare)

Off-site center
Centralized information
management

(Center for emergency response measures required by the Act on Special Measures Concerning Nuclear Emergency Preparedness)

Overall management

Environmental Conservation & Agriculture Section

Planning & Coordination Notifications & publicity

Food Sanitation Section

Agriculture,
Forestry and
Fisheries
Department,
Internal Relations
Section

Analysis & aggregation

Agricultural Technology Center

Grains, vegetables, fruit, animal products, mushrooms, wild vegetables, seafood etc.

Health institute

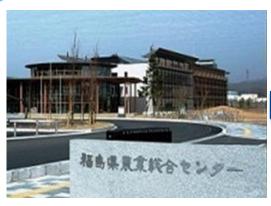
Processed foods etc.

Sample gathering and management

Prefectural

Flow of monitoring inspections

If possible



1. Transportation to Fukushima Agricultural Technology Center



2. Pre-inspection check



3. Cutting into small pieces



4. Packaging



5. Measurement with germanium semiconductor detector



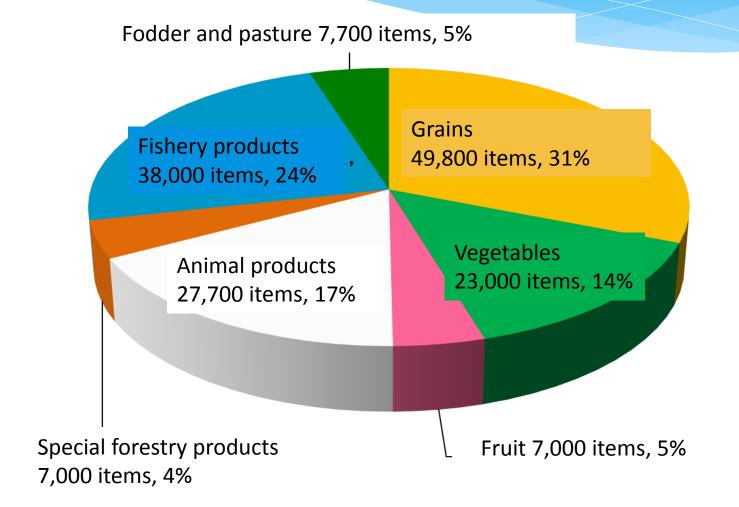
Inspected products and items

Year	No. of products	No. of items	Unsafe items (Percentage of total)
2011	542	19,971	681 (3.41%)
2012	509	61,531	1,106 (1.80%)
2013	469	28,770	419 (1.46%)
2014	488	26,041	113 (0.43%)
2015	496	23,855	18 (0.08%)
Total	_	160,168	_

^{*} Items were deemed unsafe in 2011 based on the Provisional safety level values of the Food Sanitation Act (items over 500Bq/kg).

Inspected products (March 2011 – March 2016)

OApprox. 700 products OApprox. 160,000 items analyzed



Monitoring inspection outline (1)

Category	Product	Area	Sample collection	Frequency	Handling of unsafe items
Grains	Rice	Old municipalities (as of February 1, 1950)	Reception of shipment	Items exceeding screening level in total inspection	Quarantine and disposal of unsafe items
	Soybeans	Municipalities in principle.		At least three items per area (some areas excluded)	Regional shipping restrictions
	Buckwheat noodles	In some areas, Old municipalities (as of April 1,		At least one item per area (some areas excluded)	
	Azuki beans	1949)			
	Wheat	Municipalities		At least one shipment unit per area	Restrictions of shipments containing unsafe items
Vegetables etc.	Vegetables/fruit	Municipalities	Before shipping to first stage of shipping	At least three items per area in principle (more than one item for some products/areas)	Shipping restrictions on all products of the same type produced in the same area
Mushrooms/ wild vegetables etc.	Wild vegetables	Municipalities	When harvested	At least three items per area in principle (more than one item for some wild vegetable products/areas)	Products of the same type produced in the same area
	Wild mushrooms				
	Cultivated bracken			At least one item per field in principle (at least three items per producer in acquitted areas	
	Cultivated mushrooms			At least once a week per producer	

Monitoring inspection outline (2)

Category	Product	Area	Sample collection	Frequency	Handling of unsafe items	
Animal products	Beef	Municipalities	_	All cows	Shipping restrictions on unsafe items	
	Pork	Municipalities		At least twice a month		
	Chicken	Municipalities	Slaughter	At least twice a month	Shipping restrictions on all products of the same type produced in the same area	
	Horse and other meat	Municipalities		According to shipment plan		
	Raw milk	Municipalities (CS units)	Milking	At least once a week per CS unit when milking	Restrictions on are of the CS unit	
	Eggs	Prefectural (packaging centers)	Reception of shipment	At least once a month	Shipping restrictions on all items produced in the same area	
	Honey	Municipalities	Before shipping	At least one item per municipality	Shipping restrictions on all items produced in the same area	
Fishery products	Fishery produce	Bodies of water		At least once a week	Shipping restrictions on all items produced in the same area	
	Inland fishery produce	Rivers, lakes	Before and during fishing season			
Fodder	Perennial pasture Annual forage Rice WCS Rice straws etc.	Municipalities or farms	Harvest	At every harvest	Usage restrictions	

Monitoring inspection results (2016)

Monitoring status of agricultural, forestry and fishery products in Fukushima Prefecture

April 1 – September 30 2016 (Unpolished rice August 24 – October 24 2016)

Category	No. of inspections	No. of unsafe items	Percentage of unsafe items
Unpolished rice (2016)	Approx. 5.5. million	0	0.00%
Vegetables/fruit	2,534	0	0.00%
Animal products	2,174	0	0.00%
Cultivated mushrooms	341	0	0.00%
Fishery produce (sea)	4,214	0	0.00%
Fishery produce (inland)	492	1	0.20%
Wild vegetables/mushrooms	1,015	2	0.20%

Inspection of all produced rice



1. Bag of unpolished rice is brought to testing location



2. The bag is placed on a conveyor belt leading to the measurement device



3. Results are screened, if the values are under the safety limit the rice passes



(Image)

4. Inspection Passed label is attached and the rice shipped



5. Results are visible online

https://fukumegu.org/ok/kome/





6. Only rice that passes the inspection is polished for consumption

Distribution of information and countering rumors (Transparency) ①

Prompt publication of prefectural monitoring inspection results http://www.new-fukushima.jp/



未来へ向けて歩みを進める福島の姿を 全国の皆様に伝えていきます。

Toward a new future of Fukushima

農林水産物 モニタリング情報

新発売ブログ▼

ふくしま 動画放送局

Available in 4 languages

イベント情報

プレゼント

Foreign Language

⋄よくある質問とその回答 ▽お問い合わせ

は福島県が運営しています





Distribution of information and countering rumors (Transparency) ②

Prompt publication of voluntary inspections at production areas https://fukumegu.org/ok/contents/

各地域の情報や取組はこちらから

