

## Actions towards Shipment of Safe Mushrooms

In October 2013, the Forestry Agency has formulated "Guidelines on the Management of Cultivation of Log Shiitake Mushrooms, to Reduce Radioactive Substances", which stipulated cultivation management methods to keep log mushrooms below the standard limit for general foodstuffs (100Bq/kg).

[Required Procedures]

Actions to keep mushroom logs and bed logs below the current index value (50Bq/kg), and inspections of grown mushrooms to confirm safety.

- Checking and management of radioactive cesium concentration when mushroom logs and bed logs are purchased
- Management of mushroom bed logs before emerging of fruit body (inspection for radioactive substances, etc.)
- Disposal or re-inspection of mushroom logs and bed logs which exceed the index value

- Inspection of sprouted mushrooms to confirm safety [Important Processes]

Actions to reduce the impact of radioactive substances

- Washing mushroom logs and bed logs
- Measurement of air dose rates in mushroom bed log laying yards and other working areas
- Environmental improvement etc. in mushroom bed log laying yards and other working areas

The radioactive substance countermeasure check sheet in the "Fukushima Prefecture Safe Mushroom Cultivation Manual" organizes countermeasures according to the cultivation environment, enabling management of production processes. Shipment of mushrooms produced according to this process is permitted, provided it can be confirmed that they are below the standard limit for general foodstuffs (100Bq/kg).



[Photo 1] Washing Mushroom Bed Logs



[Photo 2] Covering the Ground with Sheets



[Photo 3] Placing Sheets So That the Logs Do Not Touch the Ground

Reference : Forestry Agency Press Release "Formulation of the 'Management Guidelines for the Reduction of Radioactive Substances'", October 16, 2013; Fukushima Prefecture "Safe Mushroom Cultivation Manual"; Forestry Agency "Forests and Forestry White Paper 2017"

## Monitoring Radioactive Substances in Mushrooms and Wild Vegetables

In Fukushima Prefecture, mushrooms and wild vegetables grown or gathered within Fukushima Prefecture for the purpose of shipment and sale are given monitoring inspections for radioactive substances to confirm their safety. Results are constantly updated on the Fukushima Prefecture "Fukushima new launch" website.

Before cultivated mushrooms can be shipped, each producer measures the radioactive cesium concentration in materials (bed logs, mushroom beds, etc.) before the mushrooms sprout, to confirm that they do not exceed the nationally-stipulated current index values. \*(50Bq/kg for mushroom logs and bed logs, and 200Bq/kg for mushroom beds). After that, monitoring inspections are

performed on mushrooms before they are shipped, to confirm that they do not exceed the standard limit (100Bq/kg) for general foodstuffs.

Monitoring inspections are performed on wild mushrooms and wild vegetables at an early stage before they are shipped.

Inspections were performed on 61 varieties of mushroom and wild vegetables in FY2017. Inspection results to date are as shown in the table. Items exceeding the standard limit are decreasing every year.

※Index values defined by the government for bed logs and mushroom beds, so that emerged mushrooms do not exceed food standards. 50Bq/kg for mushroom logs and bed logs, 200Bq/kg for mushroom beds.

	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017
Number of inspections	1,083	1,180	1,457	1,564	1,562	1,832	2,111
Over standard limit	127	90	80	25	7	2	1

(Note) If inspection results show that the standard has been exceeded, shipment restrictions apply and the items concerned are never shipped.

[Table] Monitoring Inspection Results for Mushrooms and Wild Vegetables

Reference : Fukushima Prefecture "Monitoring inspection Results So Far (aggregated by year)"; Fukushima Prefecture website "Monitoring of Mushrooms and Wild Vegetables and Varieties with Shipment Restrictions for each Municipalities" as of May 2, 2018