

Indicator 12.3.1

Indicator Name, Target and Goal

Indicator 12.3.1 a) Food loss index and b) food waste index

Target 12.3 By 2030, halve per capita global food waste at the retail and consumer levels and reduce food losses along production and supply chains, including post-harvest losses

Goal 12 Ensure sustainable consumption and production patterns

12.3.1-2 Food Loss from the Household Sector

Definition and Rationale

Definition

The term “food loss and waste” is defined as “foods which were disposed while they were originally edible”. The amount of “food loss and waste from households” represents the amount of food loss and waste generated by household sector.

This indicator is calculated by multiplying the amount of general waste which is emitted from households and collected by local governments, and the ratio of the edible part of them. Therefore, food loss and waste does not include inedible part of the loss and waste which was eliminated through cooking and or eating, such as vegetable peels and bones.

Concepts

The amount of food loss and waste represents the weight of disposed foods while they were originally edible. The amount of the general wastes are weighed when they are collected and carried into the collection center, in general.

“The general waste” is defined in Waste Management and Public Cleansing Law of Japan. The collection of the general wastes from households is operated by local governments based on the law.

Rationale and Interpretation:

This indicator forms a part of “per capita global food waste at the retail and consumer levels”. The rest is included in the Food Loss from the Business Sector.

Data Sources and Collection Method

Statistic survey “Survey on measures and progress of reduction and recycling of food waste, etc. ”

Method of Computation and Other Methodological Considerations

○ Computation Method

Food Loss from the Household Sector is calculated by the formula below:

$$FL_{hh} = GW_{hh} * r_{fl} = \sum_i GW_{hh,i} * r_{fl_i}$$

where,

FL_{HH} : the amount of domestic food loss in a certain year

GW_{hh} : the amount of domestic general waste in a certain year

r_{fl} : ratio of food loss to general waste

i : local government

$GW_{hh,i}$: the amount of general waste in “ i ” city, etc.

r_{fl_i} : ratio of food loss to general waste in “ i ” city, etc.

In the case r_{fl_i} is not available in “ i ” city, etc., the average of available r_{fl} will be used.

○ Comments and limitations

Since it is not possible to measure the amount of food loss from all households, r_{fl} is basically estimated through the sample survey. In addition, it is difficult for some of the local governments to conduct the sample survey. Therefore, the average of available r_{fl} is used for the city which does not have its own data.

Data Disaggregation

N/A

References

Press release: “Publication of estimated amount of food waste and food loss in Japan”

(<http://www.env.go.jp/press/106665.html>)

Custodian Ministries of Data

Ministry of Agriculture, Forestry and Fisheries

The Ministry of the Environment

Custodian Ministries of Related Policies

Ministry of Agriculture, Forestry and Fisheries

International Organizations

Food and Agriculture Organization of the United Nations (FAO)

United Nations Environment Programme (UNEP)