

Indicator 2.5.1

Indicator Name, Target and Goal

Indicator 2.5.1 The number of (a) plant and (b) animal genetic resources for food and agriculture secured in either medium or long-term conservation facilities

Target 2.5 By 2020, maintain the genetic diversity of seeds, cultivated plants and farmed and domesticated animals and their related wild species, including through soundly managed and diversified seed and plant banks at the national, regional and international levels, and promote access to and fair and equitable sharing of benefits arising from the utilization of genetic resources and associated traditional knowledge, as internationally agreed

Goal 2 End hunger, achieve food security and improved nutrition and promote sustainable agriculture

Definition and Rationale

○ Definition

This indicator is defined as the number of plant and animal genetic resources for food and agriculture that have been stored in medium or long-term conservation facilities in the NARO genebank project. The number of these genetic resources is shown as of November 30th each year.

○ Concepts

● Plant Genetic Resources

The number of plant genetic resources refers to the number of accessions of plant genetic resources that are in the medium or long-term conservation facilities for storage, where accession refers to a distinct variety or lineage of seed or planting material etc.

Medium or long-term conservation facilities is storage facilities that conserves plant genetic resources in the form of seeds, plants and tissues in vitro and/or cryopreserved.

● Animal Genetic Resources

The number of animal genetic resources refers to the number of accessions of animal genetic resources including invertebrates such as silkworm that are in the medium or long-term conservation facilities for

storage, where accession refers to a distinct sample of organism or semen etc.

Medium or long-term conservation facilities is storage facilities that conserves animal genetic resources in the form of living organisms, semen, ova, embryos and tissues.

○ Rationale and Interpretation:

Genetic resources for food and agriculture provide the building blocks of food security and, directly or indirectly, support the livelihoods of every person on earth. As the conservation and accessibility to these resources is of vital importance, this indicator facilitates the monitoring of diversity secured and accessible through genebanks and supports the development and updating of strategies for the conservation and sustainable use of genetic resources.

This indicator provides an indirect measurement of the total genetic diversity which that is secured for future use.

Data Sources and Collection Method

Requested NARO Genebank to count the number of genetic resources.

Method of Computation and Other Methodological Considerations

○ Computation Method

Counting the number of plant and animal genetic resources for food and agriculture secured in NARO Genebank project. The number of these genetic resources is counted separately as of November 30th each year.

○ Comments and limitations

NARO Genebank project is the only one responsible for conducting collection, multiplication, conservation and distribution of genetic resources for food and agriculture at national level.

Data Disaggregation

Plant Genetic Resources, Animal Genetic Resources

References

N/A

Custodian Ministries of Data

Secretariat of Agriculture, Forestry and Fisheries Research Council, Ministry of Agriculture, Forestry and Fisheries

Custodian Ministries of Related Policies

Ministry of Agriculture, Forestry and Fisheries

International Organizations

Food and Agriculture Organization (FAO)