

28 Direct agricultural loss attributed to hydro-meteorological disasters

Indicator type **Core indicator**

Published

Versioning

First publication Latest update

Area and sub-area

Area and sub-area

Presentation

Tier

Indicator definition and description

Unit of measure

Coverage

Spatial aggregation

Reference period

Update frequency

Base period

Disaggregation (operational indicators)

Disaggregation (operational indicators)	Comments
Spatial	
Temporal (by month, by season)	
Product	by type of agricultural product lost
Type of hazard	in case of large disasters: by individual hazardous event

Other related -indicators (e.g.contextual, proxy, other core indicators)

ID	Subindicator	Type
16	Mean temperature anomaly (compared to climate normal 1961 - 1990)	Core indicator
17	Percentage of land area suffering from unusually wet or dry conditions (Standard Precipitation Index)	Core indicator
23	Occurrence of extremes of temperatures and precipitation	Core indicator
24	Direct economic loss attributed to hydro-meteorological disasters in relation to GDP	Core indicator

Relevance

Policy context and rationale

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SDG Target 1.5: By 2030, build the resilience of the poor and those in vulnerable situations and reduce their exposure and vulnerability to climate-related extreme events and other economic, social and environmental shocks and disasters
This is a sub-indicator of SDG indicator 1.5.2 and Sendai Framework Indicator C-2
This indicator is conceptually identical with SDG indicator 11.5.2, but it measures only the impacts caused by hydro-meteorological hazards ((hydrological, meteorological and climatological hazards according to IRDR peril classification).

Related SDG indicator (SDG I.)

1.5.2 Direct economic loss attributed to disasters in relation to global gross domestic product (GDP)

Relation w SDG-I.

A disaggregation of the SDG indicator

Related Sendai Framework I.

C-2 - Direct agricultural loss attributed to disasters.

Policy references

Document title	Link
Sendai Framework for Disaster Risk Reduction 2015-2030 (United Nations Office for Disaster Risk Reduction (UNDRR), 2015)	https://www.undrr.org/implementing-sendai-framework/what-sendai-framework
Transforming our world: the 2030 Agenda for Sustainable Development (General Assembly of the United Nations, 2015)	https://sustainabledevelopment.un.org/post2015/transformingourworld

Methodology

Methodology for indicator calculation

Agriculture is understood to include the crops, livestock, fisheries, apiculture, aquaculture and forest sectors as well as associated facilities and infrastructure.
Direct economic loss : the monetary value of total or partial destruction of physical assets existing in the affected area. Direct economic loss is nearly equivalent to physical damage.

In order to capture the direct impact of disasters on agriculture, it is important to take into account both:

- Losses, that is, changes in economic flows arising directly from the disaster (i.e. reduction in output in crops, livestock, fisheries, aquaculture and forestry); and
- The replacement and/or recovery costs of totally or partially destroyed physical assets and stocks (stored inputs and production) in the disaster-affected area.

For more details, see Technical Guidance for Sendai Framework Indicators.
NOTE: The CC-related indicator only refers to HYDRO-METEOROLOGICAL disasters, that is disasters caused by hydro-meteorological hazards (hydrological, meteorological and climatological hazards according to IRDR peril classification).

Methodology references

Document title	Link
Technical Guidance for Monitoring and Reporting on Progress in Achieving the Global Targets of the Sendai Framework for Disaster Risk Reduction (United Nations Office for Disaster Risk Reduction (UNDRR), 2017)	https://www.unisdr.org/files/54970_techguidancefdigitahr.pdf

Classification syst.

IRDR peril classification

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Data sources

Main source Official statistics: other than accounts

Explanation Agriculture statistics, Disaster Risk Management Agencies

SEEA Accounts that can serve as data sources

SEEA Account	Comments
Monetary asset accounts for timber resources	
Monetary asset accounts for aquatic resources	

UN-FDES 4.1.2: Impact of natural extreme events and disasters

International databases containing this indicator

Sendai Framework Monitor <https://sendaimonitor.unisdr.org/>

Comments

Comments