



Food and Agriculture Organization
of the United Nations

Item 5. Overview of the plans, modalities and tools for the Joint FOREST EUROPE/UNECE/FAO Pan-European data collection on forests and sustainable management in the pan-European region

Joint Pan-European Data Collection on forests and sustainable management

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First (30th) meeting of the UNECE/FAO Team of Specialists on monitoring sustainable forest management

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Joint Pan-European Data Collection (JPEDC) on forests and sustainable management (1)

The 2025 cycle of the JPEDC will be carried out in coordination with the data collection process for the FAO Global Forest Resources Assessment 2025.

The coordination among both processes envisages including:

- network national correspondents
- network of reviewers
- technical workshops
- data collection interface



Joint Pan-European Data Collection (JPEDC) on forests and sustainable management (2)

The 2025 cycle of the JPEDC data collection system will be built in the same environment as the one built for the FAO Global Forest Resources Assessment 2025.

It is planned that the data collection system will :

- Maintain the possible functional and visual similarity to the one developed for FRA
- Attempt to coordinate reporting on the overlapping variables
- Be prefilled with data reported for 2020 pan-European reporting
- Be prefilled with the data reported through International Data Providers (IDPs)*
- Be developed into the future comprehensive data management system *

Development of the data collection system will be possible thanks to kind support provided by Governments of Sweden and Switzerland.

*subject of availability of funding

Joint Pan-European Data Collection (JPEDC) on forests and sustainable management (3)

Activity	Date
Development of the JPEDC system	October 2022 – January 2023
Testing the JPEDC system	February – March 2023
Launch of reporting process	March 2023
Reporting data gathered through IDP	September 2023
Regional/sub regional workshops	May and to October 2023 <i>Possibly back-to-back to the ToS meetings?</i>
Closure of the reporting process	December 2023
Analysis of preliminary results	December 2023-January 2024
Conclusion of the JPEDC 2025	February 2024

Joint Pan-European Data Collection (JPEDC) on forests and sustainable management

PAN- EUROPEAN INDICATORS FOR SUSTAINABLE FOREST MANAGEMENT

Indicators	Collection process
Qualitative indicators	Collected through FOREST EUROPE Network
Quantitative indicators	
National reporting	Collected through JPEDC
National reporting - IDP	Collected through IDP – verified through JPDC
International reporting - IDP	Collected through IDP - directly transferred to the SoEF

Joint Pan-European Data Collection (JPEDC) on forests and sustainable management

Criterion 1: Maintenance and Appropriate Enhancement of Forest Resources and their Contribution

Indicator 1.1 Forest area

Indicator 1.2 Growing stock

Indicator 1.3 Age structure and/or diameter distribution

Indicator 1.4 Forest carbon

Indicator C.1: Policies, institutions and instruments to maintain and appropriately enhance forest resources and their contribution to global carbon cycle (FOREST EUROPE)

Criterion 1: Maintenance and Appropriate Enhancement of Forest Resources and their Contribution

Pan-European indicator 1.1: Area of forest and other wooded land, classified by forest type and by availability for wood supply, and share of forest and other wooded land in total land area.

No.	Indicator	1990	2000	2005	2010	2015	2020	2025	Data reference	Data provider
1.1	Forest area	x	x	x	x	x	x	x	Data for a reporting year	National – pre-filled

Related variables:

- Forest, Other wooded land, Forest available for wood supply, Other land
- Forest type, Predominantly coniferous forest, Predominantly broadleaved forest, Mixed forest

Criterion 1: Maintenance and Appropriate Enhancement of Forest Resources and their Contribution

Pan-European indicator 1.2: Growing stock on forest and other wooded land, classified by forest type and by availability for wood supply.

No.	Indicator	1990	2000	2005	2010	2015	2020	2025	Data reference	Data provider
1.2	Growing stock	x	x	x	x	x	x	x	Data for a reporting year	National – pre-filled

Related variables:

- Forest, Other wooded land, Forest available for wood supply, Growing stock, Broadleaved, Coniferous,
- Forest type, Predominantly coniferous forest, Predominantly broadleaved forest, Mixed forest

Criterion 1: Maintenance and Appropriate Enhancement of Forest Resources and their Contribution

Pan-European indicator 1.3: Age structure and/or diameter distribution of forest and other wooded land, classified by forest type and by availability for wood supply.

No.	Indicator	1990	2000	2005	2010	2015	2020	2025	Data reference	Data provider
1.3	Age structure and/or diameter distribution	x	x	x	x	x	x		Data for a reporting year	National – pre-filled

Related variables:

- Forest, Forest available for wood supply, Stand, Even-aged stand, Development phase, Regeneration phase, Intermediate phase, Mature phase, Uneven-aged stands
- Forest type, Predominantly coniferous forest, Predominantly broadleaved forest, Mixed forest

Criterion 1: Maintenance and Appropriate Enhancement of Forest Resources and their Contribution

Pan-European indicator 1.4: Carbon stock and carbon stock changes in forest biomass, forest soils and in harvested wood products.

No.	Indicator	1990	2000	2005	2010	2015	2020	2025	Data reference	Data provider
1.4	Forest-related carbon stocks	x	x	x	x	x	x		Data for a reporting year	National – pre-filled

Related variables:

- Forest, Other wooded land, Carbon in above ground biomass, Carbon in below-ground biomass, Carbon in deadwood, Carbon in litter, Soil carbon.
- Carbon stock in harvested wood products

Joint Pan-European Data Collection (JPEDC) on forests and sustainable management

Criterion 2: Maintenance of Forest Ecosystem Health and Vitality

Indicator 2.1 Deposition and concentration of air pollutants (SoEF)

Indicator 2.2 Soil condition (SoEF)

Indicator 2.3 Defoliation (SoEF)

Indicator 2.4 Forest damage

Indicator 2.5 Forest land degradation

Indicator C.2: Policies, institutions and instruments to maintain forest ecosystem health and vitality (FOREST EUROPE)

C 2: Maintenance of Forest Ecosystem Health and Vitality

Pan-European indicator 2.4: Forest and other wooded land with damage, classified by primary damaging agent (abiotic, biotic and human induced).

No.	Indicator	1990	2000	2005	2010	2015	2020	2025	Data reference	Data provider
2.4	Forest damage	x	x	x	x	x	x		Data for a reporting year	National – pre-filled

Related variables:

- Forest, Other wooded land, Damage to forest, Primarily damaged by insects and disease, Primarily damaged by wildlife and grazing, Primarily damaged by storm, wind, snow or other identifiable abiotic factors, Primarily human induced, Primarily damaged by fire

C 2: Maintenance of Forest Ecosystem Health and Vitality

Pan-European indicator 2.5: Trends in forest land degradation.

No.	Indicator	1990	2000	2005	2010	2015	2020	2025	Data reference	Data provider
2.5	Forest land degradation	x	x	x	x	x	x		Data for a reporting year	National

Related variables:

- Forest, Other wooded land, Degraded forest land

Joint Pan-European Data Collection (JPEDC) on forests and sustainable management

Criterion 3: Maintenance and Encouragement of Productive Functions of Forests
(Wood and Non-Wood)

Indicator 3.1 Increment and fellings

Indicator 3.2 Roundwood (IDP)

Indicator 3.3 Non-wood goods

Indicator 3.4 Services

Indicator C.3: Policies, institutions and instruments to maintain and encourage the productive functions of forests (FOREST EUROPE)

Criterion 3: Maintenance and Encouragement of Productive Functions of Forests (Wood and Non-Wood)

Pan-European indicator 3.1: Balance between net annual increment and annual fellings of wood on forest available for wood supply.

No.	Indicator	1990	2000	2005	2010	2015	2020	2025	Data reference	Data provider
3.1	Increment and fellings	x	x	x	x	x	x		Data for a 5-year period	National – pre-filled

Related variables:

- Forest, Forest available for wood supply, Growing stock, Gross annual increment, Net annual increment, Natural losses, Fellings.

Criterion 3: Maintenance and Encouragement of Productive Functions of Forests (Wood and Non-Wood)

Pan-European indicator 3.3: Quantity and market value of non-wood goods from forest and other wooded land.

No.	Indicator	1990	2000	2005	2010	2015	2020	2025	Data reference	Data provider
3.3	Non-wood goods					x	x		Data for a reporting year	National – pre-filled

Related variables:

- Non-wood goods, Market value.

Criterion 3: Maintenance and Encouragement of Productive Functions of Forests (Wood and Non-Wood)

Pan-European indicator 3.4: Value of marketed services on forest and other wooded land.

No.	Indicator	1990	2000	2005	2010	2015	2020	2025	Data reference	Data provider
3.4	Services					x	x		Data for a reporting year	National – pre-filled

Related variables:

- Marketed forest services (quantity and value)

Joint Pan-European Data Collection (JPEDC) on forests and sustainable management

Criterion 4: Maintenance, Conservation and Appropriate Enhancement of Biological Diversity in Forest Ecosystems (1)

Indicator 4.1 Diversity of tree species

Indicator 4.2 Regeneration

Indicator 4.3 Naturalness

Indicator 4.4 Introduced tree species

Indicator 4.5. Deadwood

Indicator 4.6 Genetic resources (SoEF)

Joint Pan-European Data Collection (JPEDC) on forests and sustainable management

Criterion 4: Maintenance, Conservation and Appropriate Enhancement of Biological Diversity in Forest Ecosystems (2)

Indicator 4.7 Forest fragmentation (SoEF)

Indicator 4.8 Threatened forest species

Indicator 4.9 Protected forests

Indicator 4.10 Common forest bird species (SoEF)

Indicator C.4: Policies, institutions and instruments to maintain, conserve and appropriately enhance the biological diversity in forest ecosystems (FOREST EUROPE)

Criterion 4: Maintenance, Conservation and Appropriate Enhancement of Biological Diversity in Forest Ecosystems

Pan-European indicator 4.1: Area of forest and other wooded land, classified by number of tree species occurring.

No.	Indicator	1990	2000	2005	2010	2015	2020	2025	Data reference	Data provider
4.1	Diversity of tree species	x	x	x	x	x	x		Data for a reporting year	National – pre-filled

Related variables:

- Forest, Other wooded land, Tree (number)

Criterion 4: Maintenance, Conservation and Appropriate Enhancement of Biological Diversity in Forest Ecosystems

Pan-European indicator 4.2: Total forest area by stand origin and area of annual forest regeneration and expansion.

No.	Indicator	1990	2000	2005	2010	2015	2020	2025	Data reference	Data provider
4.2	Regeneration	x	x	x	x	x	x		Data for a reporting year and for a 5-year period	National – pre-filled

Related variables:

- Forest, Regeneration (natural, by planting and/or seeding, coppice sprouting), Afforestation, Natural expansion of forest, Reforestation (Annual and Total)

Criterion 4: Maintenance, Conservation and Appropriate Enhancement of Biological Diversity in Forest Ecosystems

Pan-European indicator 4.3: Area of forest and other wooded land, classified by class of naturalness.

No.	Indicator	1990	2000	2005	2010	2015	2020	2025	Data reference	Data provider
4.3	Naturalness	x	x	x	x	x	x	x	Data for a reporting year	National – pre-filled

Related variables:

- Forest, Other wooded land, Naturalness, Undisturbed by man, Semi-natural, Plantation.
- Naturally established, Naturalised introduced species, Established by planting and/or seeding, Coppice, Unknown origin, Native species, Introduced species

Criterion 4: Maintenance, Conservation and Appropriate Enhancement of Biological Diversity in Forest Ecosystems

Pan-European indicator 4.4: Area of forest and other wooded land dominated by introduced tree species.

No.	Indicator	1990	2000	2005	2010	2015	2020	2025	Data reference	Data provider
4.4	Introduced tree species	x	x	x	x	x	x	x	Data for a reporting year	National – pre-filled

Related variables:

- Forest, Other wooded land, Introduced tree species, Invasive introduced tree species (by species).

Criterion 4: Maintenance, Conservation and Appropriate Enhancement of Biological Diversity in Forest Ecosystems

Pan-European indicator 4.5: Volume of standing deadwood and of lying deadwood on forest and other wooded land.

No.	Indicator	1990	2000	2005	2010	2015	2020	2025	Data reference	Data provider
4.5	Deadwood	x	x	x	x	x	x		Data for a reporting year	National – pre-filled

Related variables:

- Forest, Other wooded land, Deadwood, (Standing/Laying).

Criterion 4: Maintenance, Conservation and Appropriate Enhancement of Biological Diversity in Forest Ecosystems

Pan-European indicator 4.8: Number of threatened forest species, classified according to IUCN Red List categories in relation to total number of forest species.

No.	Indicator	1990	2000	2005	2010	2015	2020	2025	Data reference	Data provider
4.8	Threatened forest species	x	x	x	x	x	x		Data for a reporting year	National – pre-filled

Related variables:

- Forest species, Vulnerable, Endangered, Critically endangered, Extinct in the wild.

Criterion 4: Maintenance, Conservation and Appropriate Enhancement of Biological Diversity in Forest Ecosystems

Pan-European indicator 4.9: Area of forest and other wooded land protected to conserve biodiversity, landscapes and specific natural elements, according to MCPFE categories.

No.	Indicator	1990	2000	2005	2010	2015	2020	2025	Data reference	Data provider
4.9	Protected forests	x	x	x	x	x	x	x	Data for a reporting year	National – pre-filled

Related variables:

- Forest, Other wooded land, MCPFE Classes 1.1, 1.2, 1.3, and Class 2.

Joint Pan-European Data Collection (JPEDC) on forests and sustainable management

Criterion 5: Maintenance and Appropriate Enhancement of Protective Functions in Forest Management (Notably Soil and Water)

Indicator 5.1 Protective forests – soil, water and other ecosystem functions – infrastructure and managed natural resources

Indicator C.5: Policies, institutions and instruments to maintain and appropriately enhance the protective functions in forest management (FOREST EUROPE)

Criterion 5: Maintenance and Appropriate Enhancement of Protective Functions in Forest Management (Notably Soil and Water)

Pan-European indicator 5.1: Area of forest and other wooded land designated to prevent soil erosion, preserve water resources, maintain other protective functions, protect infrastructure and managed natural resources against natural hazards.

No.	Indicator	1990	2000	2005	2010	2015	2020	2025	Data reference	Data provider
5.1	Protective forests	x	x	x	x	x	x	x	Data for a reporting year	National – pre-filled

Related variables:

- Forest, Other wooded land, MCPFE Class 3.

Joint Pan-European Data Collection (JPEDC) on forests and sustainable management

Criterion 6: Maintenance of other Socioeconomic Functions and Conditions (1)

Indicator 6.1 Forest holdings

Indicator 6.2 Contribution of forest sector to GDP (IDP)

Indicator 6.3 Net revenue (IDP)

Indicator 6.4 Investments in forests and forestry (IDP)

Indicator 6.5 Forest sector workforce (IDP)

Indicator 6.6 Occupational safety and health

Joint Pan-European Data Collection (JPEDC) on forests and sustainable management

Criterion 6: Maintenance of other Socioeconomic Functions and Conditions (2)

Indicator 6.7 Wood consumption (IDP)

Indicator 6.8 Trade in wood (IDP)

Indicator 6.9 Wood energy (IDP)

Indicator 6.10 Recreation in forests

Indicator C.6: Policies, institutions and instruments to maintain other socioeconomic functions and conditions (FOREST EUROPE)

Criterion 6: Maintenance of other Socioeconomic Functions and Conditions

Pan-European indicator 6.1: Number of forest holdings, classified by ownership categories and size classes.

No.	Indicator	1990	2000	2005	2010	2015	2020	2025	Data reference	Data provider
6.1	Forest holdings	x	x	x	x	x	x		Data for a reporting year	National – pre-filled

Related variables:

- Forest, Forest holding, Forest ownership, Public ownership, Private ownership, Unknown ownership.

Criterion 6: Maintenance of other Socioeconomic Functions and Conditions

Pan-European indicator 6.6: Frequency of occupational accidents and occupational diseases in forestry.

No.	Indicator	1990	2000	2005	2010	2015	2020	2025	Data reference	Data provider
6.6	Occupational safety and health	x	x	x	x	x	x		Data for a 5-year period	National – pre-filled

Related variables:

- Occupational accident, Occupational disease.

Criterion 6: Maintenance of other Socioeconomic Functions and Conditions

Pan-European indicator 6.10: The use of forests and other wooded land for recreation in terms of right of access, provision of facilities and intensity of use.

No.	Indicator	1990	2000	2005	2010	2015	2020	2025	Data reference	Data provider
6.10	Recreation in forests	x	x	x	x	x	x		Data for reporting years	National – pre-filled

Related variables:

- Forest, Other wooded land, Access for recreation, Area primarily designated or managed for public recreation, Visit, Recreation facility.

Joint Pan-European Data Collection (JPEDC) on forests and sustainable management

Forest Policy and Governance (FOREST EUROPE)

Indicator 1: National Forest Programmes or equivalent

Indicator 2: Institutional frameworks

Indicator 3: Legal/regulatory framework: National (and/or sub-national) and international commitments

Indicator 4: Financial and economic instruments

Indicator 5: Information and communication



THANK YOU

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