




**MINISTÈRE
DE LA TRANSITION
ÉCOLOGIQUE
ET DE LA COHÉSION
DES TERRITOIRES**

*Liberté
Égalité
Fraternité*

 **SYSTEM OF ENVIRONMENTAL
ECONOMIC ACCOUNTING**

FOREST ACCOUNTS IN FRANCE

Béatrice Michalland

French environmental information officer

JOINT OECD/UNECE SEMINAR ON THE IMPLEMENTATION OF THE SEEA

March 2023

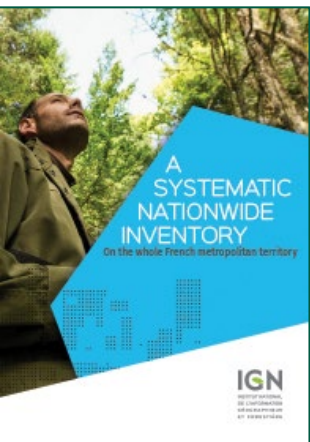
General context on forest monitoring

Implementation of forest accounts

Beyond forest accounts

Indicators useful for public policies

A national forest inventory since 1958



Tous les sites de l'IGN | Le portail de l'IGN | RSS | CHM-era project

IGN
INSTITUT NATIONAL
DE L'INFORMATION
GÉOGRAPHIQUE
ET FORESTIÈRE

**FOREST
INVENTORY**

THE FRENCH FOREST
THE NATIONAL FOREST INVENTORY
INVENTORY RESULTS
THE LABORATORY OF FOREST INVENTORY
THE FOREST ONLINE


Search

LE MÉMENTO
INVENTAIRE FORESTIER

**ÉDITION
2021**

2
3
4
5
6
7
>


MAIN ARTICLES



The memento – The key information about the French forest

The NFI publishes every year a memento of the most important data of the French forest. This inventory contains tables and graphic the current woodland extension, composition, (...)

Discover online »




IGN Magazine n°98 - Geospatial data serving biodiversity

"Forest inventory – A photofit picture of (...)"

27 May 2020

See online »



Forest and wildlife inventory of the Ivory Coast

Discover the forest and wildlife inventory of (...)

1 April 2020

See online »

ONLINE
CARTOGRAPHY

WHAT IS THE
NFI?

ONLINE TABLES

Tree measurements



6 m
9 m
15 m



Soil description



15 m



Floristic survey



15 m



**Stand description
Habitats determination**



25 m



Lying deadwood inventory



transect



Regular surveys on the forestry and wood industry by national statistics

agreste



La statistique, l'évaluation
et la prospective
du ministère de l'Agriculture
et de la Souveraineté alimentaire



CHIFFRES ET ANALYSES

SOURCES, DÉFINITIONS, MÉTHODES

SERVICES

NOUS CONNAÎTRE

Accueil > Chiffres et analyses

« Mes critères

- Thèmes**
- Forêts, bois, industries du bois ✕
 - Ressources forestières (43) ✕
 - Structures de production (51) ✕
 - Récolte de bois, production de sciages (77) ✕
 - Données économiques (39) ✕

Recherche par critère

THÈMES

Réinitialise

158 résultat(s)

Nombre d'

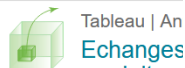


Tableau | An
Echanges

Tableau

exlar00

Dimensions

- Année de référence
 - Année de référence
- Groupe d'indicateurs
 - Groupe d'indicateurs
- Géographie
 - Métropole ou DOM
 - Région
 - Département
- Produits de la forêt
 - Produits de la forêt 1
 - Produits de la forêt 2
 - Produits de la forêt 3
 - Produits de la forêt 4
 - Produits de la forêt 5
 - Produits de la forêt 6

Mesures

- Mesures
 - Agreste

Colonne

- Produits de la forêt
 - Produits de la forêt 1
 - Produits de la forêt 2

Lignes

- Année de référence
 - Année de référence

Filtre

- Groupe d'indicateurs
 - Groupe d'indicateurs
- Géographie
 - Métropole ou DOM

Mesures

Récolte de bois en millier de m3 (anciennes régions)

Filtres : Groupe d'indicateurs=Récolte (volume)—Métropole ou DOM=FR métro - France métropolitaine Info: 15.28 / 5 x 77 / 0.46s

Année de référence	Récolte de bois		
	Grumes	Bois d'industrie	Bois énergie
1947	21 821	8 853	3 469
1948	21 067	9 538	3 219
1949	15 721	7 930	2 910
1950	13 743	7 813	2 380
1951	16 212	9 475	2 629
1952	15 611	8 417	3 080
1953	20 715	11 809	3 296
1954	21 493	13 026	3 653
1955	23 867	14 674	4 431
1956	24 545	15 226	4 398
1957	26 267	15 784	4 270
1958	27 603	17 461	4 553
1959	25 570	15 716	4 451
1960	26 057	16 363	4 495
1961	28 617	18 090	5 377

Indicators of sustainable forest management Helsinki conference (1993)

IGN INDICATORS OF SUSTAINABLE MANAGEMENT

[Browse indicators](#) [Download](#) [Resources](#) [About indicators](#)

Indicators of sustainable management in France

Indicators grouped by

[Criteria](#) [Issues](#)

- Criterion 1.**
Forest resources – timber and carbon
- Criterion 2.
Forest health and vitality
- Criterion 3.
Productive functions of forests
- Criterion 4.
Biological diversity of forests
- Criterion 5.
Protective functions of forests
- Criterion 6.
Socio-economic functions of forests

[Indicators list](#)

Criterion 1. > [Synthèse](#)

Forest resources – timber and carbon

The indicators in this criterion provide information about: the surface area of forests, its distribution across the national territory, the volume of timber and the species found in the forests as well as the role they play in mitigating the greenhouse effect.

[Scroll to top](#)

Construction of French forest accounts under the impetus of Eurostat from end of 1990s

Notes de **méthode**



n° 16

COMMISSARIAT
GÉNÉRAL AU
DÉVELOPPEMENT
DURABLE
SERVICE
DE L'ORGANISATION
ET DES STATISTIQUES
Octobre
2013

Document de travail n° 15


Rapport - Environnement

**Comptes intégrés
environnementaux et
économiques de la forêt
française**

*Méthodologie et analyse
pour la période 2007-2010*

Les comptes de la forêt :
enjeux et méthodes


D A T A L A B
 Commissariat général au développement durable
**Les comptes de la forêt :
un outil de suivi de la forêt française
2007-2014**
 MARS 2018


An official website of the European Union How do you know?
eurostat  [Log in](#) [EN English](#)
[Home](#) [Data](#) [News](#) [Publications](#) [About us](#) [Contact us](#) [Help](#)
 Home > Forestry > Data > Database
FORESTRY **DATABASE**
 Overview
 • Data
 Main tables
 DATABASE
 Publications
 Methodology
 Policy context
 Links
 • Forestry (for)
 • Timber removals, wood products and trade (for_rpt)
 • Roundwood removals (for_rpt)
 • Roundwood production and trade (for_ptt)
 • Production and trade in primary products (for_rptp)
 • Trade in secondary processed products (for_rpts)
 • Economics (for_eaf)
 • Economic aggregates of forestry (for_eco_cp)
 • Supply and use of products within forestry (for_sup_cp)
 • Monetary supply and use of wood in the rough (for_essuw)
 • Physical supply and use of wood in the rough over bark (for_epuw)
 • Output of forestry by tone (for_essuat)

System of Environmental-Economic
Accounting for Agriculture,
Forestry and Fisheries
(SEEA AFF)



Forest accounts structure

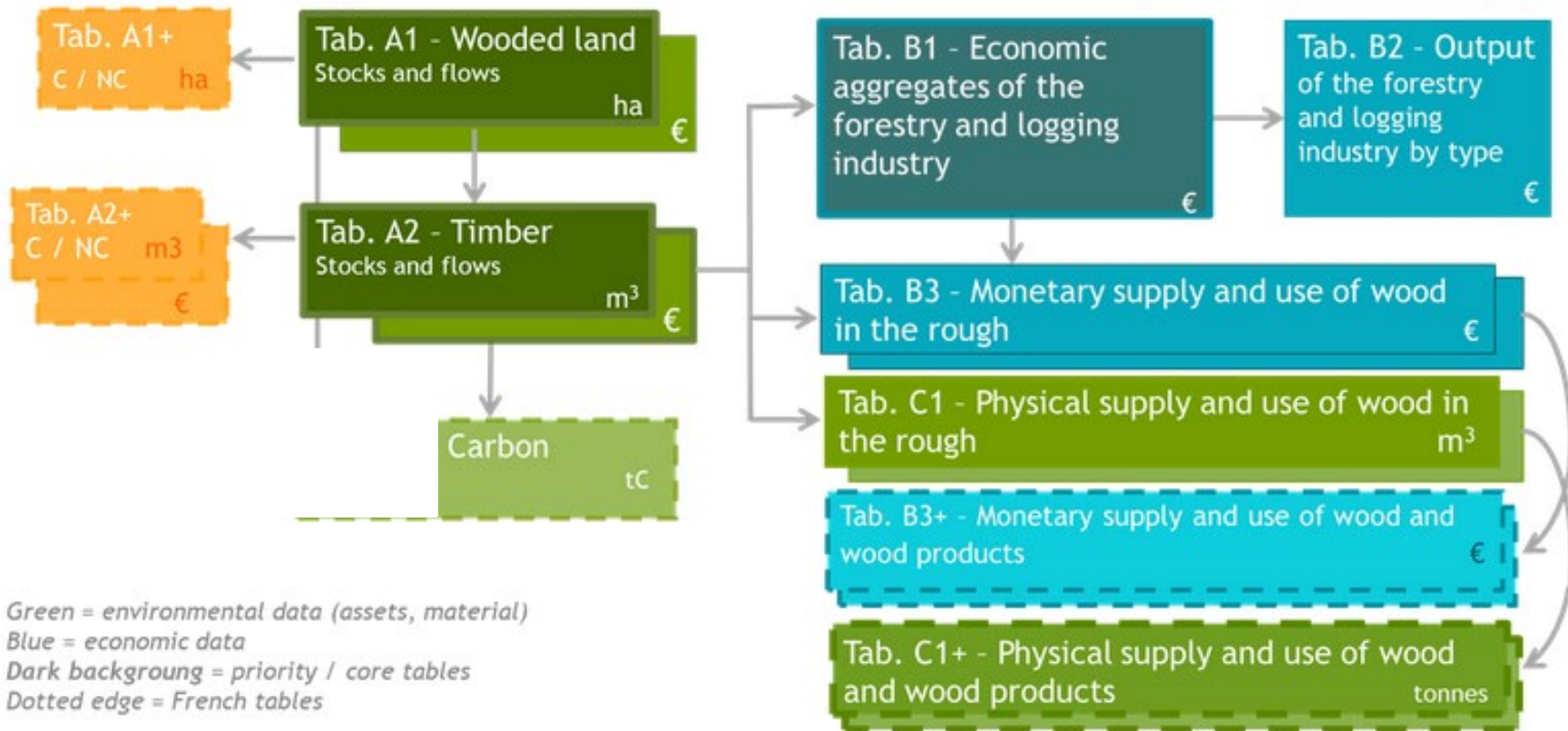


Table A 1 - Wooded land

(a) Area of wooded land, in 1000 ha

Validate questionnaire Restore table color

Country: FR France

Year: 2020

Assets (stocks and flows)		Opening area (December t-1)	Standard footnote	Explanator y footnote	Afforestation and other increase	Standard footnote	Explanator y footnote	Deforestation and other decrease	Standard footnote	Explanator y footnote	Statistical re-classification (+/-)	Standard footnote	Explanator y footnote	Balancing item (+/-)	Standard footnote	Explanator y footnote	Closing area (December t)	Standard footnote	Explanator y footnote
Code	Description																		
1	Forest	17333,572	E	2 Based only on 3										88,358	1 No data available		17421,93	E	2 Based only on 3
1.1	Forest available for wood supply	16396,309	E	2 Based only on 3										119,199	1 No data available		16515,508	E	2 Based only on 3
1.2	Forest not available for wood supply	937,263	E	2 Based only on 3										-30,841	1 No data available		906,422	E	2 Based only on 3
2	Other wooded land																		
2.1	Of which available for wood supply																		
3	Other land with tree cover available for wood supply ⁽¹⁾																		

Table A 2 - Timber

(a) Timber on wooded land, in 1000 m3 over bark

Validate questionnaire Restore table color

Country: FR France

Year: 2020

Assets (stocks and flows)		Opening stocks ⁽¹⁾ (December t-1)	Standard footnote	Explanator y footnote	Net increment ⁽²⁾	Standard footnote	Explanator y footnote	Removals ⁽³⁾	Standard footnote	Explanator y footnote	Irrecoverable losses ⁽⁴⁾	Standard footnote	Explanator y footnote	Statistical re-classification	Standard footnote	Exp for
Code	Description															
1	Forest															
1.1	Forest available for wood supply	3065251,59	EP	3 Opening stock in	79828,97			50296,869	EP	3 Opening stock in	9884,648	EP	3 Opening stock in			
1.2	Forest not available for wood supply															
2	Other wooded land							4808,175	EP	3 Opening stock in						
2.1	Of which available for wood supply															
3	Other land with tree cover available for wood supply ⁽¹⁾															

Table B 1 (Former table 3c) Economic aggregates of the forestry and logging industry

in million national currency (former Table 3c)

Forestry and logging industry only

Validate questionnaire Restore table color

Country: FR France

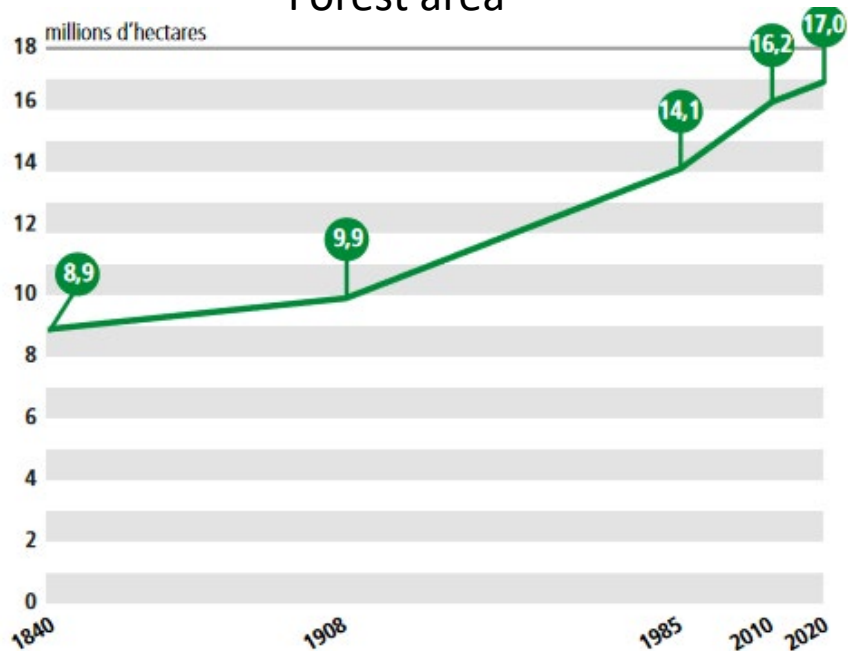
Year: 2020 Currency: EUR

If the data do not allow you to report on the forestry and logging industry only, as separate from other industries, please explain this in the "Comments on the compilation of the table" below.

Products and economic aggregates (current transactions)			Standard footnote	Explanatory footnote
Code	Description	Million NAC		
1	Total output (at basic prices) [P.1]	5989,718	P	
1.0	Of which output for own final use [P.12]	732,342	EP	
1.1	Goods characteristic of the forestry and logging activity	4512,618	P	
1.1.1	Trees, tree plants and forest tree seeds	1778,276	P	
1.1.1.1	Live forest tree plants (02.10.11) and tree seeds (02.10.12)	76,07	P	
1.1.1.2	Forest trees (02.10.30) ⁽¹⁾	1702,206		
1.1.2	Wood in the rough (02.20.1)	2672,342	EP	
1.1.2.1	Logs ⁽²⁾	1605	EP	
1.1.2.2	Fuel wood (02.20.14 and 02.20.15)	1067,342	EP	
1.1.4	Non-wood products (02.30) ⁽³⁾	62	P	
1.2	Services characteristic of the forestry and logging activity ⁽⁴⁾	1121	P	
1.3	Other products from connected secondary activities in the local KAU ⁽⁵⁾	356,1		
1.4	Other products (*)	0		
2	Total intermediate consumption [P.2]	3091,312		
2.1	Goods input	1299,312	EP	

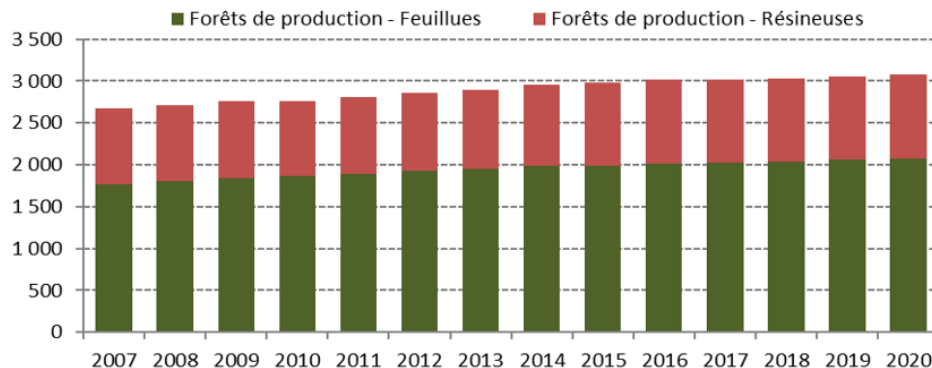
Main results for France (metropolitan area)

Forest area



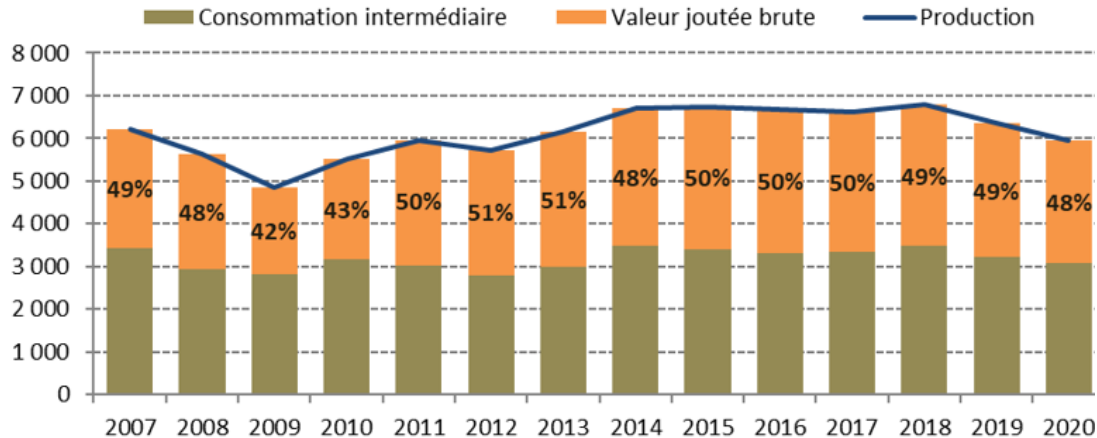
31% of the territory

Standing volume of wood In forest available for wood supply in million m³

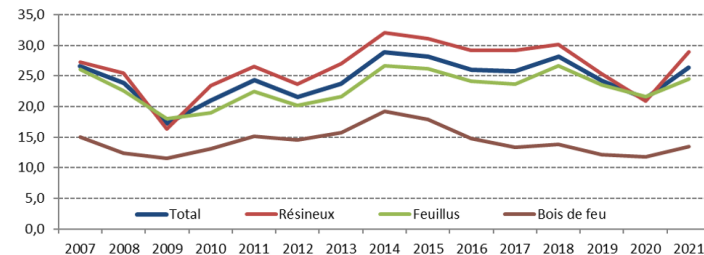


Main results for France (metropolitan area)

Output of the forest and logging industry (Million of €)



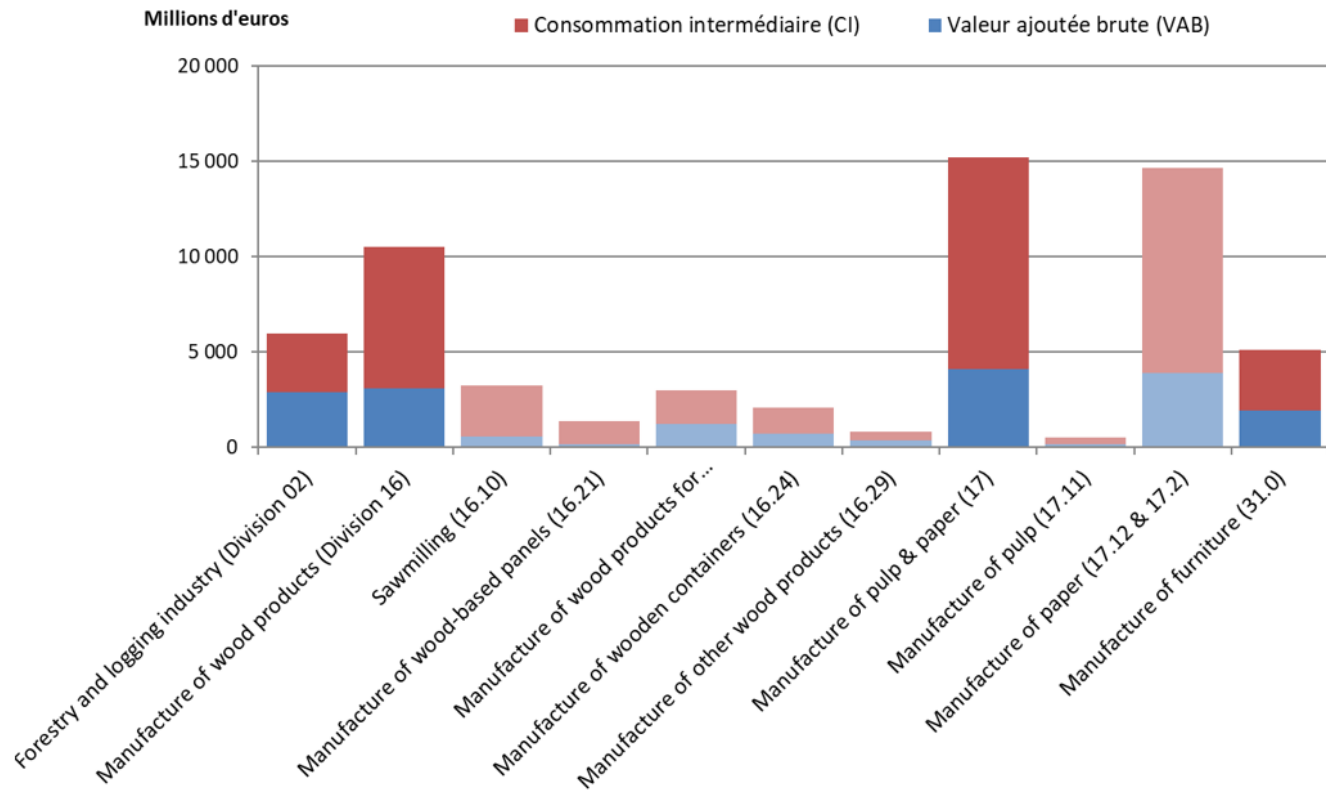
Average price of standing timber (€/m³)



Difficulties or missing data to consolidate forest accounts

- Little data collected on forests non available for wood supply (5% of the forest)
- Sampling methods that do not allow breakdown of flows
- Timber stock value highly dependent on wood prices
- Non-market flows (energy wood, mushrooms, ...) difficult to estimate and even more in value

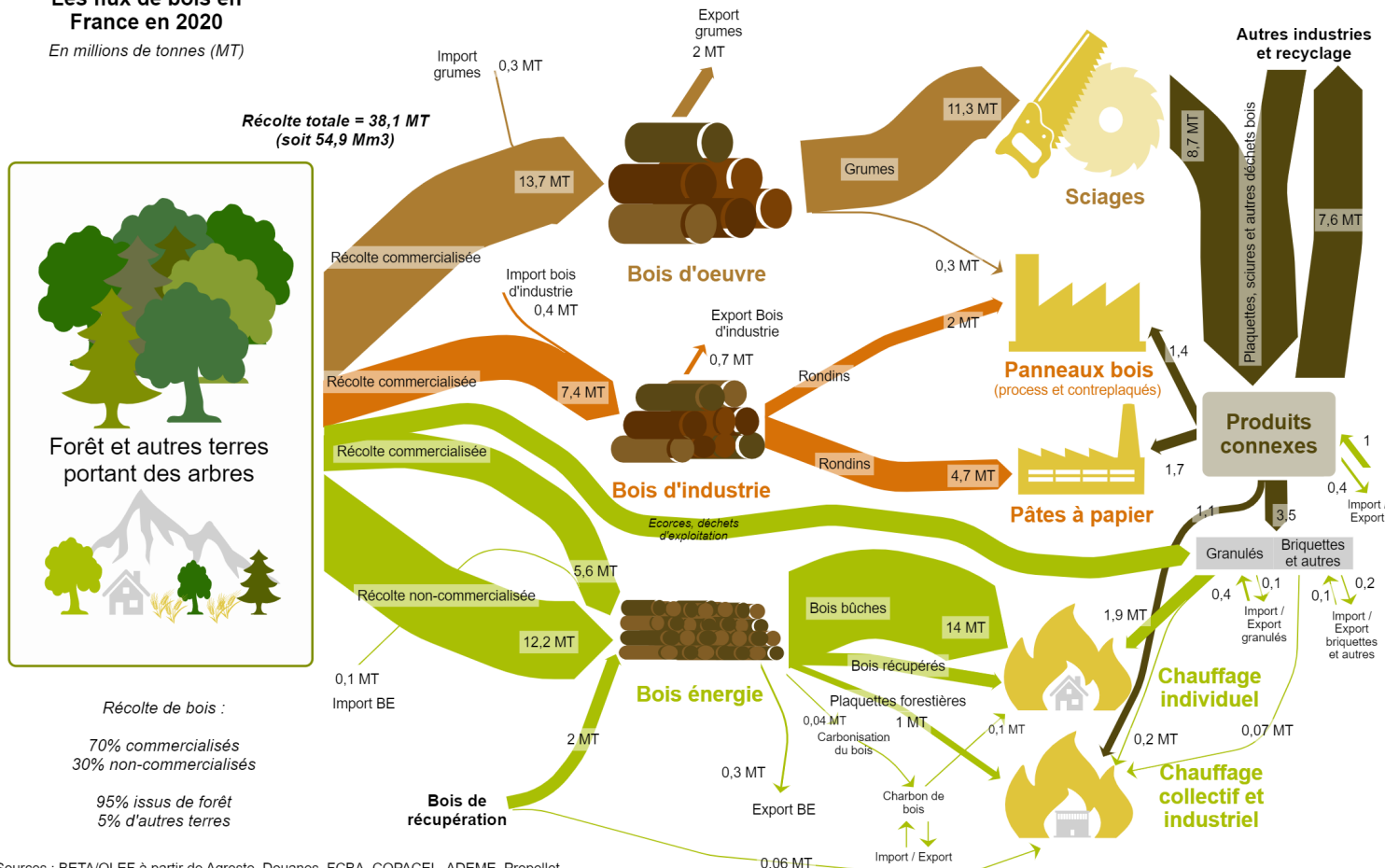
Beyond forest accounts, looking at the entire sector



Les flux de bois en France en 2020

En millions de tonnes (MT)

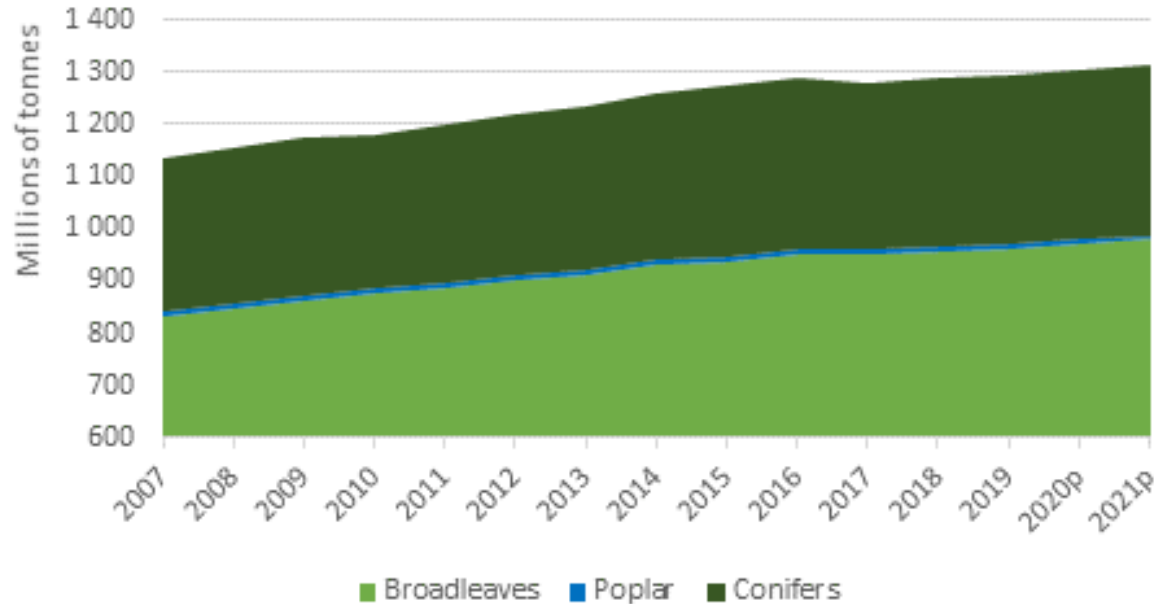
Beyond forest account, describing the wood flows



Sources : BETA/OLEF à partir de Agreste, Douanes, FCBA, COPACEL, ADEME, Propellet

Beyond forest accounts, looking at carbon storage

Carbon stock in woody biomass



A **storage** of around **10Mt/year** (woody biomass of metropolitan area) when the total of France CO2 net **emission** are **300Mt/year**.

Indicators for public policies



Stratégie nationale bas-carbone



La transition écologique et solidaire vers la neutralité carbone



Mars 2020



PREMIER VOLET PRE-COPIÉ



19 octobre 2021 Info +

Lancement des Assises de la forêt et du bois

filière bois forêt

Partager la page



Indicators to follow dangers for the forest related to climate change

**Sendai Framework
for Disaster Risk Reduction
2015 - 2030**





AgroParisTech  **INRAE**

Thank you

