

## Forest accounts in Poland in 2020

30.11.2022


**1.8%**

A decrease in the value of gross output of forestry and logging division in comparison with 2019 (in current prices)

According to the methodology of the European Forest Accounts (EFA), the value of gross output of forestry and logging division in Poland in 2020 amounted to PLN 22.5 billion, which was a fall in comparison with the previous year by 1.8% (in current prices).

### Forest land balance

At the end of 2020, the area of forest land in Poland equalled 9464.2 thousand hectares and grew within a year by 1.3 thousand hectares. As a result of classification changes of non-forest land into forest land, there were 0.9 thousand hectares of forest land more, and almost 0.3 thousand hectares of forest land less due to deforestation.

Forest land area in forests available for wood supply at the end of 2020 was 9159.5 thousand hectares and constituted, just like a year before, 96.8% of total forest land.

**Table 1. Forest land balance in 2020**

SPECIFICATION	Total	Forests available for wood supply	Forests not available for wood supply
	in thousand hectares		
<b>Opening area</b>	<b>9462.9</b>	<b>9156.9</b>	<b>306.0</b>
Afforestation	0.9	0.9	0.0
Deforestation	0.3	0.3	.
Changes in use	0.0	1.3	-1.3
Balancing item	0.7	0.7	0.0
<b>Closing area</b>	<b>9464.2</b>	<b>9159.5</b>	<b>304.7</b>

At the end of 2020, the value of forest land amounted to PLN 39.5 billion and grew in comparison with the previous year by 1.4% (in current prices). The value of forest land available for wood supply equalled PLN 38.1 billion, which was 96.6% of total forest land value.

At the end of 2020, the value of forest land amounted to PLN 39.5 billion

**Table 2. Balance of forest land value in 2020**

SPECIFICATION	Total	Forests available for wood supply	Forests not available for wood supply
	in million PLN		
<b>Opening area</b>	<b>38894.4</b>	<b>37566.1</b>	<b>1328.3</b>
Afforestation	3.7	3.7	0.0
Deforestation	1.2	1.2	.
Changes in use	0.0	5.7	-5.7
Revaluation	520.6	502.8	17.8
Balancing item	40.1	40.7	-0.6
<b>Closing area</b>	<b>39457.6</b>	<b>38117.8</b>	<b>1339.8</b>

**Balance of growing stock of standing wood**

Growing stock of standing wood in Polish forests at the end of 2020 was 2669.0 million m<sup>3</sup> and within a year increased by 0.5%. The annual increment of timber volume, adjusted for mortality of trees, added 77.9 million m<sup>3</sup> of standing wood (by 2.1% less than in 2019), removals equalled 49.6 million m<sup>3</sup> (i.e. by 6.4% less than the previous year). Growing stock of standing wood available for wood supply at the end of 2020 equalled 2561.1 million m<sup>3</sup>, which was 96.0% of total growing stock of standing wood.

**Table 3. Balance of growing stock of standing wood in 2020**

SPECIFICATION	Total	Forests available for wood supply	Forests not available for wood supply
	in thousand m <sup>3</sup>		
<b>Opening growing stock</b>	<b>2656094.1</b>	<b>2548641.0</b>	<b>107453.1</b>
Net increment of timber	77861.3	75423.5	2437.8
Removals (over bark)	49586.1	49371.3	214.8
Losses	3064.6	704.8	2359.8
Changes in use	0.0	574.1	-574.1
Balancing item	-12346.2	-13477.7	1131.5
<b>Closing growing stock</b>	<b>2668958.5</b>	<b>2561084.8</b>	<b>107873.7</b>

At the end of 2020, the production value of growing stock of standing wood in forests available for wood supply reached PLN 325.6 billion and within a year increased by 3.2% (in current prices). In a year, the net increment of timber brought PLN 9.6 billion; the removals totalled PLN 7.0 billion.

The value of growing stock in forests available for wood supply at the end of 2020 equalled PLN 325.6 billion

**Table 4. Value balance of growing stock of standing wood in 2020**

SPECIFICATION	Total	Forests available for wood supply	Forests not available for wood supply
	in million PLN		
<b>Opening growing stock</b>	<b>331932.4</b>	<b>315402.3</b>	<b>16530.1</b>
Net increment of timber	9938.8	9556.0	382.8
Removals (over bark)	6987.6	6957.4	30.2
Losses	465.4	90.5	374.9
Changes in use	0.0	104.9	-104.9
Revaluation	4443.1	4221.8	221.3
Balancing item	3835.8	3321.2	514.6
<b>Closing growing stock</b>	<b>342697.1</b>	<b>325558.3</b>	<b>17138.8</b>

At the end of 2020, the area of forests not available for wood supply, with 304.7 thousand hectares, had 107.9 million m<sup>3</sup> of growing stock (i.e. 4.0% of total growing stock). The potential production value of this stock was PLN 17.1 billion.

#### **Economic accounts of the forestry and logging division**

In 2020, the amount representing the value of gross output of the forestry and logging division (in accordance with EFA) was PLN 22.5 billion, of which production of goods characteristic of forestry activities was valued at PLN 19.9 billion, and forestry and logging services – PLN 1.7 billion.

The value of gross output of the forestry and logging division in 2020 amounted to PLN 22.5 billion (according to EFA)

In the analysed period, the value of gross output resulting from the annual increment of timber volume in forests available for wood supply amounted to PLN 9.5 billion. The production of wood in the rough went as high as PLN 8.2 billion, of which 95.6% was roundwood.

**Table 5. Gross output of the forestry and logging division in 2020**

SPECIFICATION	In million PLN
<b>TOTAL</b>	<b>22499.7</b>
of which output for own final use	14.3
Goods characteristic of the forestry and logging activity	19947.8
Trees, tree plants and forest tree seeds	10862.7
live forest tree plants and tree seeds	1360.1
forest trees	9502.6
wood in the rough	8199.9
roundwood	7837.4
fuel wood	362.5
non-wood products	885.2
Services characteristic of the forestry and logging activity	1722.7
Products of secondary activities	829.2

In 2020, intermediate consumption in the analysed division totalled PLN 14.9 billion. A significant share was the consumption of trees, plant trees and forest tree seeds (valued at PLN 6.9 billion), of which the majority were trees removed from forests available for wood supply. Another significant item in intermediate consumption is services related to forestry activities, whose value in 2020 reached PLN 1.7 billion.

**Table 6. Intermediate consumption in the forestry and logging division in 2020**

SPECIFICATION	In million PLN
<b>TOTAL</b>	<b>14875.7</b>
Trees, tree plants and forest tree seeds	6934.5
Energy, lubricants	326.3
Fertilisers and soil improvers	169.9
Plant protection products and pesticides	25.7
Services characteristic of the forestry and logging activity	1728.0
Regular maintenance and repair of equipment	363.8
Maintenance of buildings	599.1
Financial Intermediation Services Indirectly Measured (FISIM)	56.3
Other goods and services	4672.1

In 2020, gross value added in the forestry and logging division was PLN 7.6 billion and net value added – PLN 6.8 billion. Labour input in this division equalled 50.0 thousand annual work units<sup>1</sup>, of which 7.6 thousand AWUs of self-employed persons.

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<sup>1</sup> An annual work unit (AWU) is a representative of a full time equivalent. In Poland it is 2120 hours.

## Methodological notes

Environmental and Economic Forest Accounts in Poland are prepared in accordance with the European Forest Accounts methodology. They are a sectoral satellite account to national accounts, enriching them with additional information characteristic of forestry activity.

Data on forests are broken down by forests available and not available for wood supply<sup>2</sup>. This distinction makes it possible to show forest resources which can be of productive use. Estimating the productivity of this timber is essential to show the role of forests in national economy.

Productivity can only be attributed to forests available for wood supply and estimating this value for forests not available for wood supply is only done because of the theoretical possibility of including these resources in productive resources.

The increment valuation of growing stock of standing wood in forests available for wood supply is necessary to include this value in the gross output of the forestry and logging division. Forest accounts in Poland use the gross method to estimate the gross output of forestry, which means that this value represents the annual increment of timber volume less losses caused by mortality. Intermediate consumption covers the value of timber removed from forests available for wood supply in a given year. All values are provided at current prices.

The tables show both afforestation, with changes in the area of the land that was so far non-forest land and that was included in forest land in a given year, and other factors leading to the increase in the area (i.e. succession). Deforestation concerns forest land area decrease that results from excluding this land from forest use. Changes in forest land use reflect changes in the classifications from forests available for wood supply to forests not available for wood supply, and vice versa. Other changes refer to changes of figures stemming from price changes (revaluations), losses (fires) as well as the balancing item.

Net increment of growing stock means a yearly increase in timber volume that is the result of the processes of natural growth adjusted by the change in the stock (volume) of standing and lying dead trees (i.e. mortality).

Data for the years 2016–2018 presented in the previous news release editions of “Forest accounts in Poland” have been adjusted due to the benchmarking revision of national accounts as well as the change in the way removals are reported, namely, until 2018, they had been under bark, and since 2019 – over bark. Revised data for the years 2016–2018 are available in the Centre for Environment, Nature and Forestry Statistics in the Statistical Office in Białystok – [OSSPiL@stat.gov.pl](mailto:OSSPiL@stat.gov.pl), as well as in the Eurostat database – <https://ec.europa.eu/eurostat/web/forestry/data/database>.

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<sup>2</sup> Forests not available for wood supply are forests where wood supply is significantly restricted. In Poland, forests not available for wood supply are forests in national parks and nature reserves.







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**Related information**

[Statistical Yearbook of Forestry 2021](#)

**Data available in databases**

[Local Data Bank – Forestry and Hunting](#)

[Knowledge Database – Forestry](#)

[Eurostat Database – Forestry](#)

**Terms used in official statistics**

[Forest land](#)

[Growing stock of standing wood](#)

[Gross output](#)

[Intermediate consumption](#)

[Gross value added](#)