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# ECONOMIC ACCOUNTS FOR FORESTRY, 2023

The value of the total output of forestry at basic prices in the Republic of Croatia amounted to **0.4 billion** euro in 2023, which represents an increase of **7.7%**, as compared to the previous year.

The gross value added amounted to 0.3 billion euro in 2023, which was an increase of 14.1%, as compared to the previous year.

The forestry labour input increased by 7.7% in the observed period.

The total value of wood sold increased in 2023, as compared to 2022, by **0.7%**, while the average prices increased by **11.1%**. The increase in the total value of wood sold in 2023, as compared to 2022, was caused by an increase in the value of non-coniferous wood of 1.3%.

Non-coniferous wood had a share of 90.4% in the total value of wood sold in 2023, while a share of coniferous wood was 9.6%. The average price of coniferous wood in 2023, as compared to 2022, increased by 8.1% and the price of non-coniferous wood by 11.3%.

The total value of services done in forestry, as compared to the same period of the previous year, increased by 42.2%

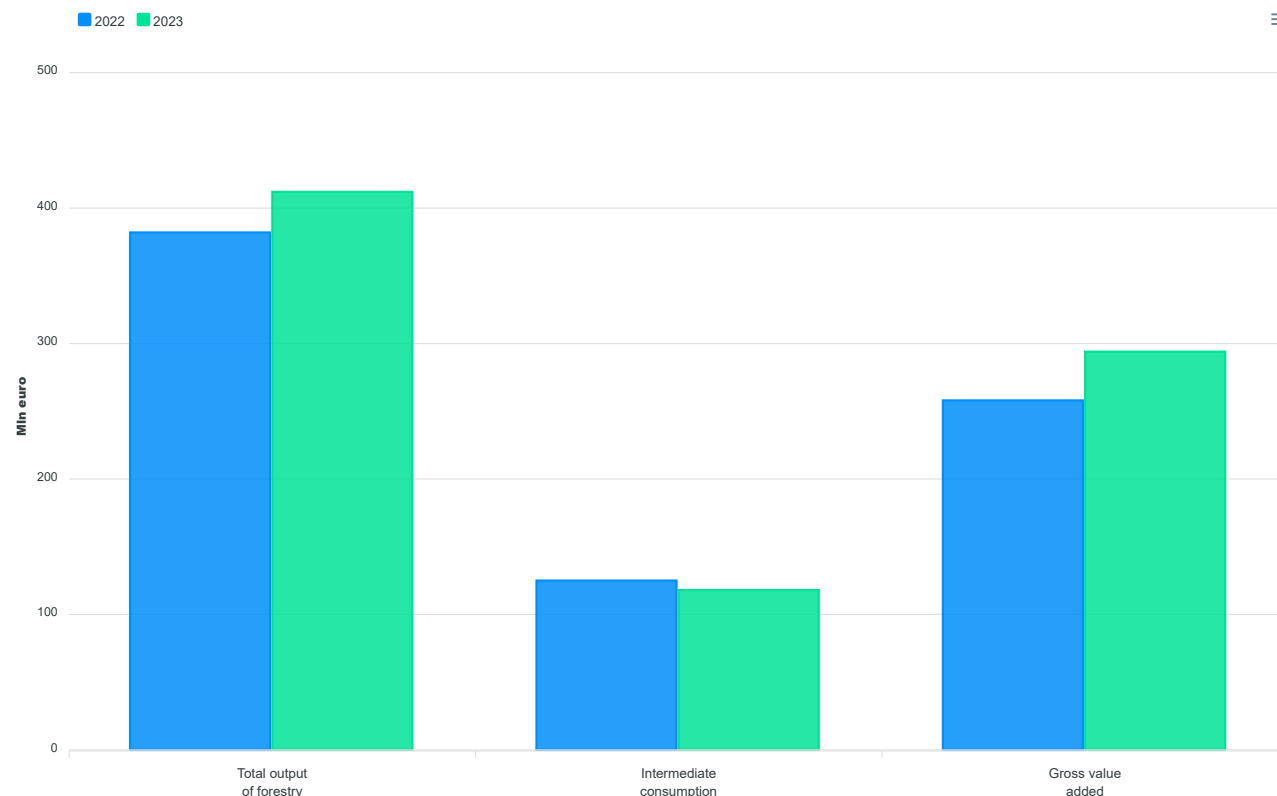
In 2023, as compared to 2022, the value of seeds and sowing material used in forestry increased by 73.5%, while the total value of forest protection agents used decreased by 5.3%. Expressed in euro, expenses for seeds and sowing material rose by about 3.7 million euro, whereas expenses for forest protection agents dropped by about 0.02 million euro.

The value of motor fuels consumed decreased in 2023 by 13.8%, as compared to 2022.

## 1 VALUE OF MAIN AGGREGATES OF ECONOMIC ACCOUNTS FOR FORESTRY

	2022	2023
<b>Mln euro</b>		
Total output of forestry	382	412
Intermediate consumption	125	118
Gross value added	258	294
Consumption of fixed capital	30	22
Net value added	228	272
Factor income	228	272
Compensation of employees	170	194
Operating surplus/Mixed income	58	78
<b>Annual work unit, '000</b>		
Forestry labour input	17,8	19,2

## G-1 TOTAL VALUE OF FORESTRY OUTPUT, INTERMEDIATE CONSUMPTION AND GROSS VALUE ADDED, 2022 – 2023



## 2 VALUE AND PRICES OF FORESTRY PRODUCTS SOLD

	2022		2023		Indices 2023 2022	
	Value, thousand euro	Average price, euro/m <sup>3</sup>	Value, thousand euro	Average price, euro/m <sup>3</sup>	Value	Average price
Total sale value	338 644	61,21	341 081	67,98	100,7	111,1
Coniferous	34 136	50,33	32 674	54,40	95,7	108,1
Non-coniferous	304 507	62,73	308 407	69,82	101,3	111,3
Fuel wood, including wood for charcoal	84 817	30,04	82 374	31,06	97,1	103,4
Coniferous	896	18,01	1 059	18,92	118,2	105,0
Non-coniferous	83 921	30,26	81 314	31,32	96,9	103,5
Industrial roundwood (wood in the rough)	253 826	93,69	258 707	109,37	101,9	116,7
Coniferous	33 239	52,90	31 615	58,05	95,1	109,7
Non-coniferous	220 587	106,02	227 093	124,72	102,9	117,6
Sawlogs and veneer logs	243 767	103,38	252 364	116,78	103,5	113,0
Coniferous	28 770	64,32	27 244	70,57	94,7	109,7
Non-coniferous	214 997	112,52	225 119	126,83	104,7	112,7
Pulpwood	9 788	28,06	4 859	27,82	49,6	99,1
Coniferous	4 318	24,12	4 122	26,51	95,5	109,9
Non-coniferous	5 470	32,21	737	38,43	13,5	119,3
Other industrial roundwood	8 893	20,17	1 485	49,84	16,7	247,1
Coniferous	4 966	16,75	249	80,52	5,0	480,8
Non-coniferous	3 927	23,90	1 236	46,29	31,5	193,7

### 3 VALUE OF SERVICES DONE IN FORESTRY

	Value of services, thousand euro		Indices 2023 2022
	2022	2023	
Total	57 533	81 798	142,2
Logging and drawing services	37 418	51 675	138,1
Arboriculture services	10 749	14 537	135,2
Services of maintenance and repairs in forestry	5 612	10 545	187,9
Other production services	3 753	5 041	134,3

### 4 VALUE OF SEEDS AND SOWING MATERIAL USED

	Value of seeds and sowing material used, thousand euro		Indices 2023 2022
	2022	2023	
Total	5 003	8 681	173,5
Seed	10	3 951	1)
Seedlings and rhizomes	4 993	4 730	94,7

1) The index exceeds 999.

### 5 VALUE OF FOREST PROTECTION AGENTS USED

	Value of forest protection agents used, thousand euro		Indices 2023 2022
	2022	2023	
Total	388	367	94,7
Fungicides	189	209	110,2
Insecticides	20	28	135,1
Herbicides	172	93	54,3
Other agents	6	37	613,3

### 6 VALUE OF CONSUMED ENERGY AND FUEL

	Value of consumed energy and fuel, thousand euro		Indices 2023 2022
	2022	2023	
Electricity	702	846	120,5
Fuel for warming (gas)	662	623	94,1
Motor fuel	14 402	12 413	86,2
Petrol	733	626	85,4
Diesel	13 669	11 787	86,2

# NOTES ON METHODOLOGY

## Source and methods of data collection

Economic accounts for forestry for the Republic of Croatia are based on survey data of the Croatian Bureau of Statistics and administrative data from the Ministry of Agriculture, Forestry and Fisheries as well as from the state enterprise Hrvatske šume d. o. o.

The non-additivity of the sum of individual components of the indicators is the result of applying the method of calculation and rounding at the detailed structure level of categories and subcategories.

## Coverage

Economic accounts for forestry cover the whole forestry activity. The coverage includes data of legal entities and parts thereof classified into activities defined in section A Agriculture, forestry and fishing, division 02 Forestry and logging, as well as of legal entities classified into other activities but engaged in the forestry, logging and related service activities according to the NKD 2007.

## Definitions

**Total output of forestry** equals the sum value of forestry goods output, forestry services output and the value of inseparable non-forestry secondary activities. The accounting period is a calendar year.

It is valued at basic prices, which means that all subsidies on products and services are included, while all taxes on products and services are excluded.

**Intermediate consumption** is the value of inputs (products and services) used for forestry production. It is presented at purchaser's prices.

**Gross value added** at basic prices equals the total output of forestry at basic prices less intermediate consumption at purchaser's prices.

**Fixed capital consumption** is the value of depreciation of fixed capital goods as a result of normal wear and tear.

**Net value added** at basic prices equals the gross value added at basic prices less fixed capital consumption.

**Factor income** equals the net value added less taxes on production plus subsidies on production.

**Compensation of employees** is defined as a total remuneration, in cash or in kind, during the period of one year.

**Net operating surplus/mixed income** equals the factor income less the compensation of employees.

**Forestry labour input** comprises the total number of working hours of all persons and employees who work as salaried or non-salaried labour force on typical jobs in forestry. It is measured by annual work units. The annual work unit is a quotient of the total number of working hours done in forestry during a year and an average number of working hours, which amounts to 1 800 hours per annum for paid work.

**Inseparable non-forestry secondary activities** include intangible assets (software) and hunting.

## Abbreviations

mln	million
NKD 2007	National Classification of Activities, 2007 version
'000	thousand
m <sup>3</sup>	cubic metre

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