

# Forestry Statistics 2024

## Chapter 9: International Forestry

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## Introduction

This chapter contains information about world forestry, presenting global figures by region alongside data for the UK and the EU. Topics covered include woodland area, carbon stocks, wood removals, production and apparent consumption of wood products and international trade in forest products.

The data are produced by the United Nations Food and Agriculture Organisation (FAO). Further information on the data sources and methodology used to compile the figures is provided in the Sources chapter.

All of the statistics presented in this chapter have been previously released by the FAO. For further details on revisions, see the International Forestry section of the Sources chapter.

Data for the European Union (EU) relate to all 27 current EU members, excluding the UK, for all the years shown. Data for Europe cover 26 of the EU members (excluding Cyprus), Russia and a number of other European countries, including Norway, Switzerland, Serbia and Ukraine. Cyprus is included in the EU total, but is part of FAO's Asia region and is thus not included in the Europe total.

A copy of all International Forestry tables can be accessed in spreadsheet format from the [Time Series](#) page.

## Key findings

The main findings are:

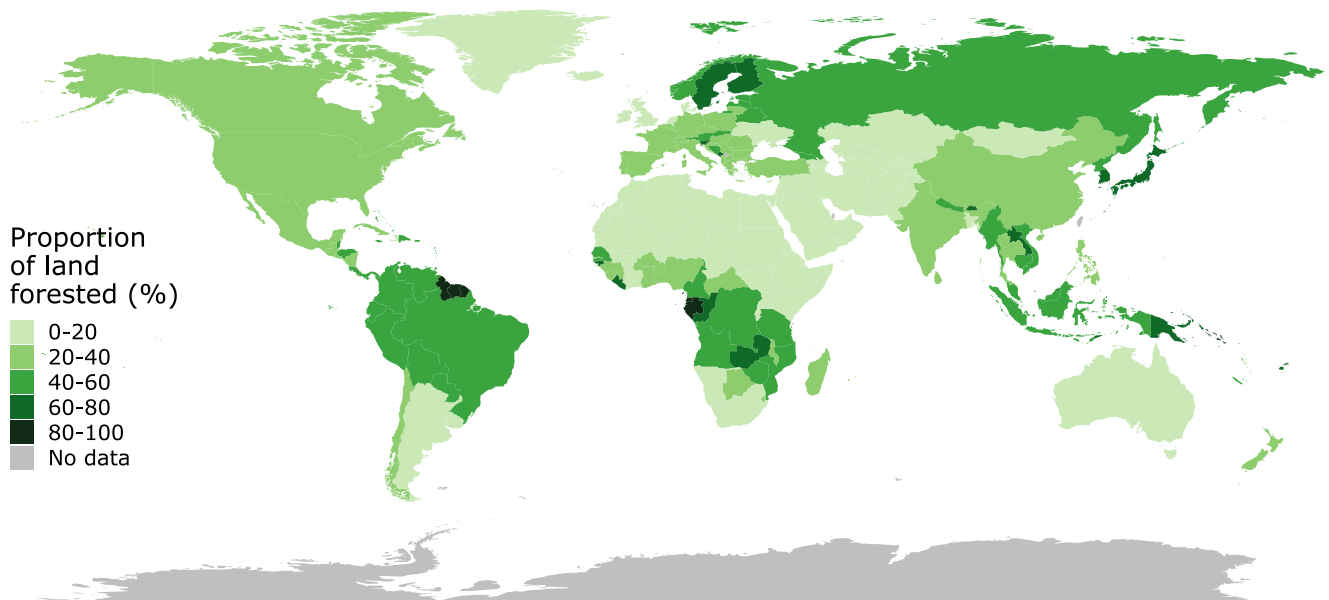
- At around 13% forest cover in 2020, the UK is one of the least densely forested countries in Europe. This compares with 46% for Europe as a whole and 31% worldwide.
- The global forest area reduced by around 4.7 million hectares (0.1%) per year between 2010 and 2020.
- Carbon stocks in forest living biomass have increased in Europe, North & Central America and Asia between 1990 and 2020 but have shown an overall decrease at a global level over this period.
- A total of 4.0 billion cubic metres underbark of wood was removed from global forests in 2022, of which around one half (49%) was used as woodfuel and the remainder as industrial roundwood (for use by wood processors).
- Global production of wood products in 2022 totalled 481 million cubic metres of sawnwood, 375 million cubic metres of wood-based panels and 414 million tonnes of paper and paperboard.
- Europe consumed 25% of all sawnwood, 22% of the world's wood-based panels and 22% of all paper and paperboard in 2022.
- The UK was the second largest net importer (imports less exports) of forest products in 2022, with net imports of US \$11.3 billion. The largest net importer was China.

## 9.1 Forest cover: international comparisons

The FAO Global Forest Resources Assessment (FRA) is a collation of forest data undertaken by the United Nations FAO at the global level every five years.

The UK is one of the least densely forested countries in Europe, with around 13% of its total land area covered in forest in 2020 (Figure 9.1, Table 9.1). This compares with 46% for Europe as a whole and 31% worldwide.

Figure 9.1 Forest cover as a percentage of total land area, World, 2020



Source: FAO Global Forest Resources Assessment (2020).

These figures are outside the scope of National Statistics. For further information see Chapter 10: Sources and Methodology.

Table 9.1 Forest cover as a percentage of total land area: international comparisons, World, 2020

Country	Forest area (million ha)	Total land area (million ha)	Forest area as a percentage of land area (%)
Europe <sup>1</sup>	1,017	2,213	46
United Kingdom	3	24	13
EU <sup>2</sup>	159	400	40
Denmark	1	4	15
Finland	22	30	74
France	17	55	32
Germany	11	35	33
Ireland	1	7	11
Italy	10	29	33
Spain	19	50	37
Sweden	28	41	69
Other EU	51	148	34
Russia	815	1,638	50
Africa	637	2,989	21
Asia	623	3,109	20
North & Central America	753	2,133	35
Oceania	185	849	22
South America	844	1,746	48
<b>World</b>	<b>4,059</b>	<b>13,039</b>	<b>31</b>

Source: FAO Global Forest Resources Assessment (2020).

Notes:

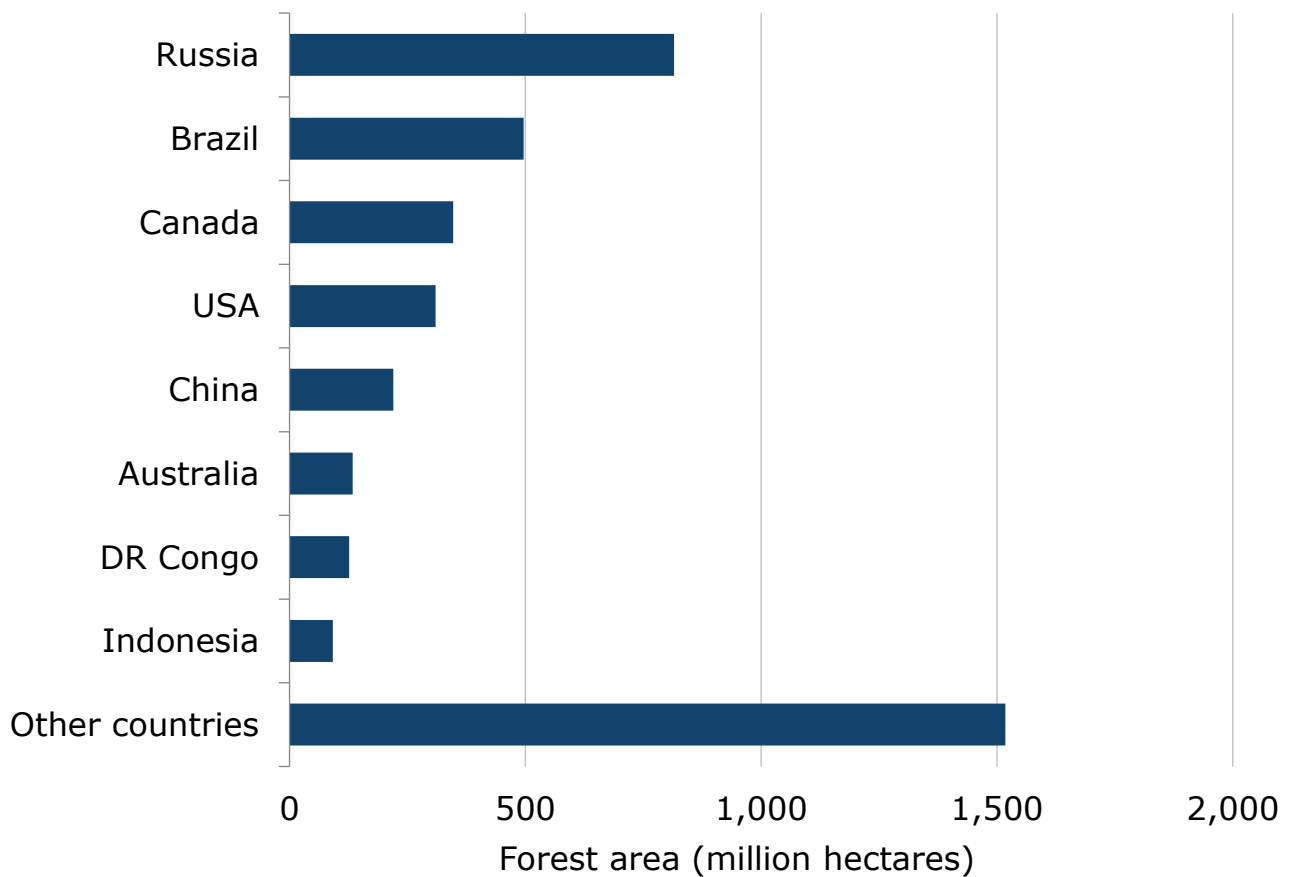
1. The Europe region covers 26 EU countries (excluding Cyprus), the UK, Russia and other countries, including Norway, Switzerland, Serbia and Ukraine.
2. The EU covers 27 member states as at September 2024. This excludes the UK. Cyprus is included in EU total but is part of FAO's Asia region.

These figures are outside the scope of National Statistics. For further information see Chapter 10: Sources and Methodology.

## 9.2 Forest area by country

Figure 9.2 shows the countries with the largest forest areas. Around one half (49%) of the total forest area of 4,059 million hectares in 2020 is located in four countries (Russia, Brazil, Canada and the USA).

Figure 9.2 Forest area by country, World, 2020



Source: FAO Global Forest Resources Assessment (2020).

These figures are outside the scope of National Statistics. For further information see Chapter 10: Sources and Methodology.



### 9.3 Annual changes in forest area

The global forest area has reduced from around 4,128 million hectares in 1990 to 4,059 million hectares in 2020. This represents a decrease of around 7.8 million hectares (0.2%) per year between 1990 and 2000 of around 5.2 million hectares (0.1%) per year between 2000 and 2010 and of around 4.7 million hectares (0.1%) per year between 2010 and 2020 (Table 9.2).

The forest area has reduced in most regions since 1990, except for Europe and Asia (where areas have increased).

**Table 9.2 Annual changes in forest area by region, World, 1990 to 2020**  
percentage change in forest area

Region	1990 to 2000	2000 to 2010	2010 to 2020
Europe <sup>1</sup>	0.1	0.1	0.0
UK <sup>2</sup>	0.6	0.4	0.4
EU <sup>3</sup>	0.5	0.3	0.2
Africa	-0.4	-0.5	-0.6
Asia	0.0	0.4	0.2
North and Central America	0.0	0.0	0.0
Oceania	-0.1	-0.1	0.2
South America	-0.5	-0.6	-0.3
<b>World</b>	<b>-0.2</b>	<b>-0.1</b>	<b>-0.1</b>

Source: FAO Global Forest Resources Assessment (2020).

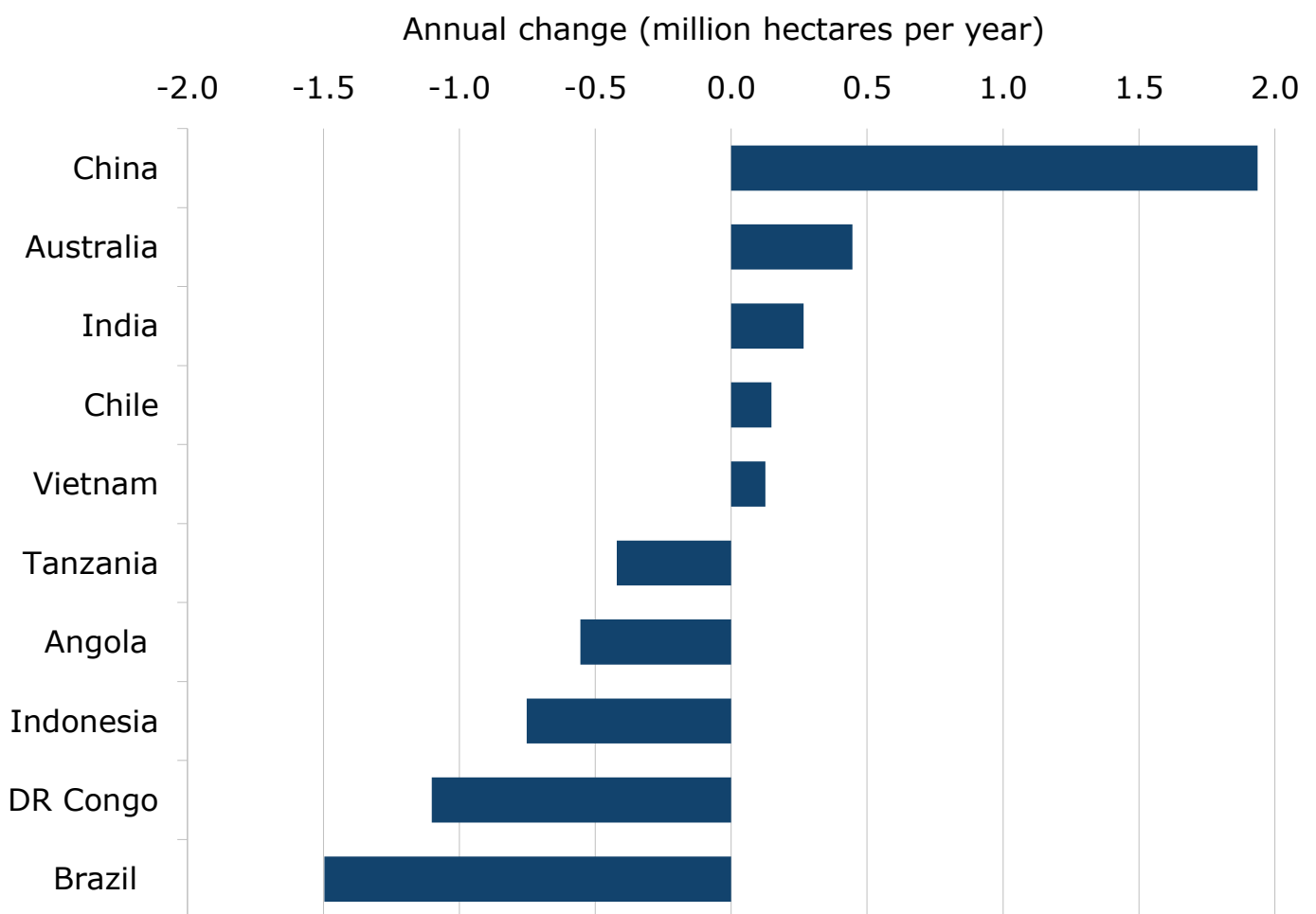
Notes:

1. The Europe region covers 26 EU countries (excluding Cyprus), the UK, Russia and other countries, including Norway, Switzerland, Serbia and Ukraine.
2. UK figures for 2020 are 2018-based estimates. Revised estimates (from Chapter 1) suggest that Table 9.2 slightly under-estimates the change in forest area in the UK in the most recent time period.
3. The EU covers 27 member states as at September 2024. This excludes the UK. Cyprus is included in EU total but is part of FAO's Asia region.

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Between 2010 and 2020, the largest decrease in forest area was in Brazil (1.5 million hectares per year on average) and the largest increase was in China (1.9 million hectares per year on average) (Figure 9.3).

**Figure 9.3 Countries with largest changes in forest area, World, 2010 to 2020**



Source: FAO Global Forest Resources Assessment (2020).

Notes:

1. Top and bottom 5 countries with the largest annual change shown only.

These figures are outside the scope of National Statistics. For further information see Chapter 10: Sources and Methodology.

## 9.4 Forest carbon stocks

Carbon stocks in forest living biomass have increased in Europe and North & Central America between 1990 and 2020, but have shown an overall decrease at a global level over this period (Table 9.3).

The overall decrease has mainly been driven by declines in South America and Africa, where forest areas have decreased. Carbon stocks in biomass also increased slightly in Asia, where carbon sequestered in new plantations has balanced out carbon losses from areas of deforestation.

**Table 9.3 Carbon stocks in forest living biomass by region, World, 1990 to 2020**

Region	giga tonnes of carbon <sup>1</sup>				
	1990	2000	2010	2015	2020
Europe <sup>2</sup>	45	48	51	53	55
Africa	59	56	54	52	51
Asia	34	35	36	37	38
North and Central America	39	40	41	41	42
Oceania	14	14	14	14	14
South America	106	102	98	97	96
<b>World</b>	<b>298</b>	<b>296</b>	<b>294</b>	<b>295</b>	<b>295</b>

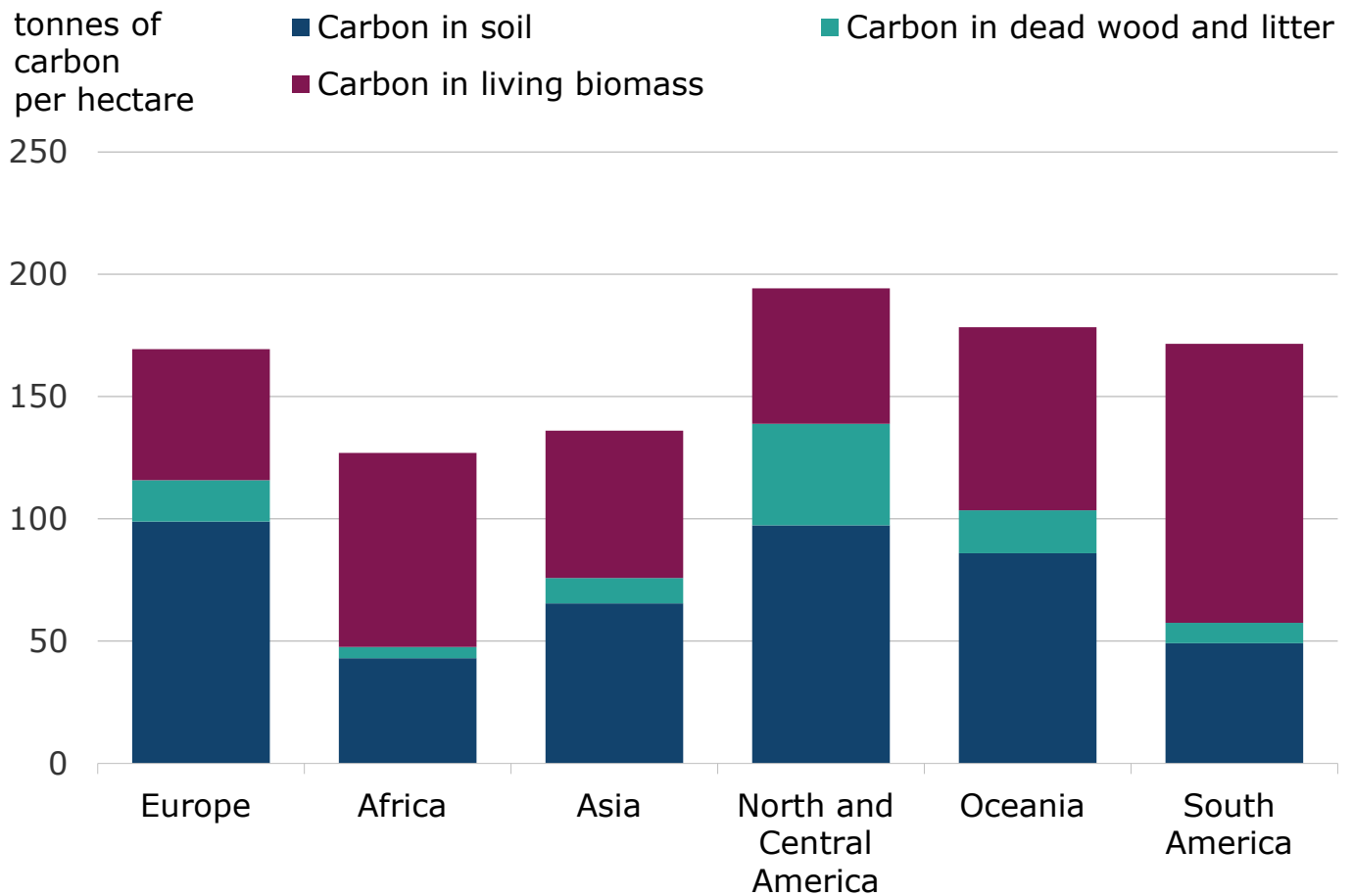
Source: FAO Global Forest Resources Assessment (2020).

Notes:

1. A giga tonne is a thousand million tonnes (10<sup>9</sup> tonnes).
2. The Europe region covers 26 EU countries (excluding Cyprus), the UK, Russia and other countries, including Norway, Switzerland, Serbia and Ukraine.

These figures are outside the scope of National Statistics. For further information see Chapter 10: Sources and Methodology.

Figure 9.4 Forest carbon stock per hectare by region, World, 2020



Source: FAO Global Forest Resources Assessment (2020).

These figures are outside the scope of National Statistics. For further information see Chapter 10: Sources and Methodology.

## 9.5 Wood removals

Around 4.0 billion cubic metres underbark of wood was removed from global forests in 2022, of which almost 2.0 billion cubic metres (49%) was for use as woodfuel and the remainder was industrial roundwood (for use by wood processors) (Table 9.4).

North & Central America and Europe together accounted for around three fifths (57%) of all industrial roundwood removals in 2022. Globally, removals of industrial roundwood increased by 6% between 2021 and 2022, resulting from increases in all regions, except Europe.

Almost three quarters (72%) of woodfuel removals in 2022 took place in Asia and Africa.

Table 9.4 Wood removals by region, World, 1990 to 2022

million cubic metres underbark

Region	1990	2000	2010	2021	2022
<b>Industrial roundwood</b>	<b>1,585</b>	<b>1,690</b>	<b>1,723</b>	<b>2,049</b>	<b>2,016</b>
Europe	517	519	533	645	614
UK	6	8	8	8	8
EU <sup>1</sup>	311	335	331	385	379
Africa	61	71	72	78	79
Asia	268	273	379	466	459
North & Central America	595	631	484	538	538
Oceania	34	47	57	71	71
South America	110	147	198	249	254
<b>Woodfuel</b>	<b>1,814</b>	<b>1,795</b>	<b>1,864</b>	<b>1,954</b>	<b>1,967</b>
Europe	138	109	155	177	180
UK	0	0	1	2	2
EU <sup>1</sup>	67	85	115	132	129
Africa	445	551	644	720	728
Asia	897	808	764	702	695
North & Central America	162	129	129	156	161
Oceania	9	13	11	10	10
South America	162	185	162	185	189
<b>Total roundwood</b>	<b>3,399</b>	<b>3,485</b>	<b>3,587</b>	<b>4,003</b>	<b>3,983</b>
Europe	655	628	687	822	794
UK	6	8	10	10	10
EU <sup>1</sup>	378	420	446	517	508
Africa	506	623	715	797	807
Asia	1,166	1,081	1,144	1,168	1,153
North & Central America	757	761	614	693	699
Oceania	43	60	68	81	81
South America	272	332	359	434	443

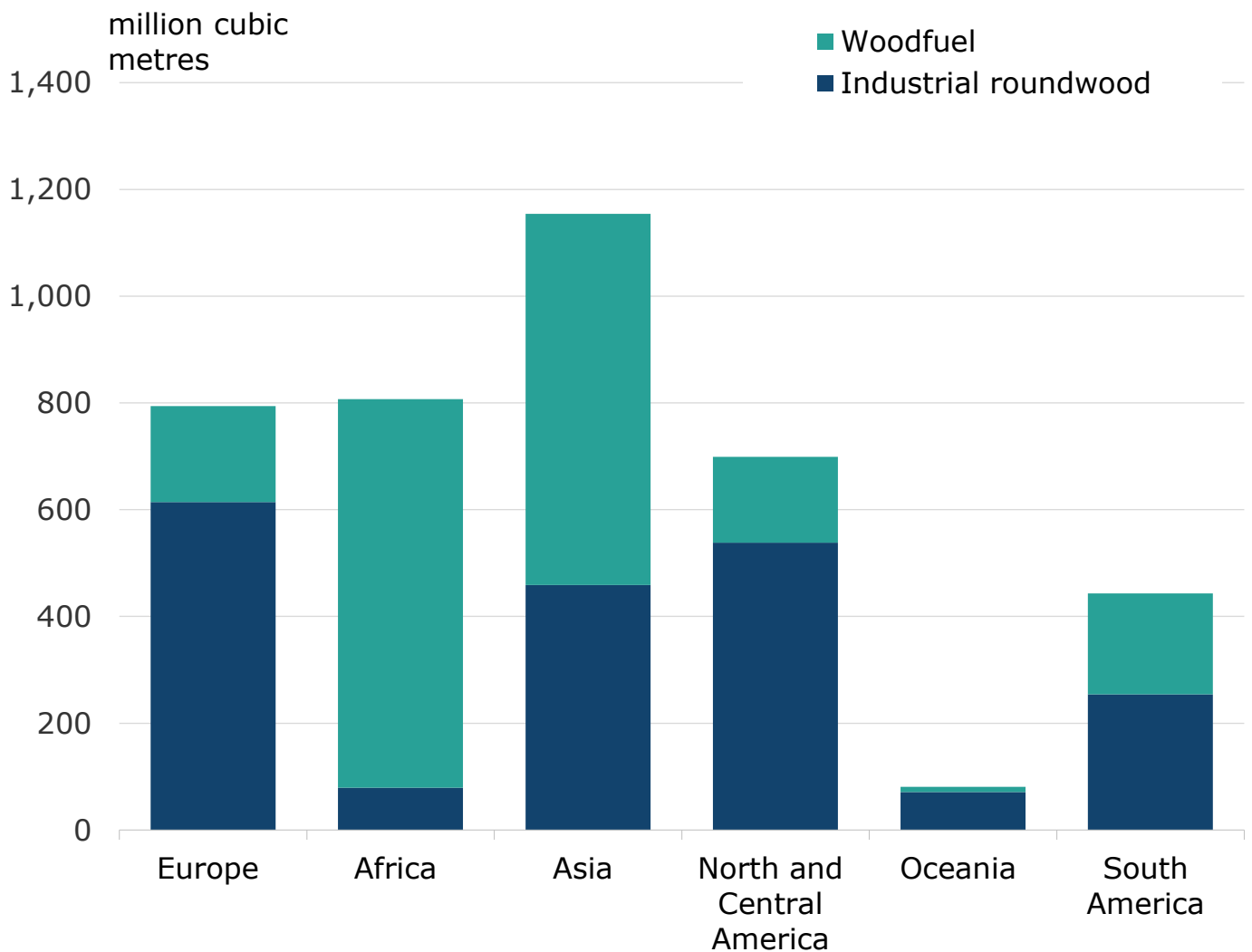
Source: FAO (2024).

Notes:

1. The EU covers 27 member states as at September 2024. This excludes the UK. Cyprus is included in EU total but is part of FAO's Asia region.

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Figure 9.5 Wood removals by region, World, 2022



Source: FAO (2024).

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## 9.6 Production of wood products

Global production of wood products in 2022 totalled 481 million cubic metres of sawnwood, 375 million cubic metres of wood-based panels and 414 million tonnes of paper & paperboard (Table 9.5).

Europe produced just over one third (34%) of all sawnwood in 2022 (mainly in EU countries), with 30% in Asia and over one quarter (26%) produced in North & Central America. Overall, sawnwood production decreased by 3% between 2021 and 2022, with reductions in all major producing regions.

Wood-based panels were more commonly produced in Asia, accounting for over one half (57%) of global production in 2021. Just under one fifth (24%) were produced in Europe (mainly in EU countries) and 12% in North & Central America. At a global level, wood-based panel production decreased by 7% between 2021 and 2022, mainly driven by decreases in Europe and in Asia.

Asia also accounted for half (50%) of paper and paperboard production in 2022, with almost a quarter (24%) in Europe and a further 20% in North & Central America. At a global level, paper and paperboard production decreased by 1% between 2021 and 2022.



Table 9.5 Production of wood products by region, World, 1990 to 2022

Region	1990	2000	2010	2021	2022
<b>Sawnwood (million cubic metres)</b>	<b>419</b>	<b>385</b>	<b>376</b>	<b>496</b>	<b>481</b>
Europe	149	130	139	172	165
UK	2	3	3	4	3
EU <sup>1</sup>	80	98	98	109	111
Africa	8	8	9	12	12
Asia	105	61	86	151	145
North and Central America	129	146	102	126	123
Oceania	6	8	9	9	9
South America	22	32	30	27	26
<b>Wood-based panels (million cubic metres)</b>	<b>126</b>	<b>178</b>	<b>284</b>	<b>402</b>	<b>375</b>
Europe	48	59	71	94	89
UK	2	3	3	3	3
EU <sup>1</sup>	34	48	53	60	60
Africa	2	1	2	3	3
Asia	27	46	153	236	215
North and Central America	44	61	42	47	46
Oceania	2	3	3	3	3
South America	4	8	15	20	19
<b>Paper and paperboard (million tonnes)</b>	<b>235</b>	<b>325</b>	<b>392</b>	<b>417</b>	<b>414</b>
Europe	74	100	106	105	100
UK	5	7	4	4	3
EU <sup>1</sup>	59	83	91	83	83
Africa	3	4	4	3	3
Asia	57	95	170	206	209
North and Central America	92	111	94	77	81
Oceania	3	4	4	4	4
South America	8	11	15	16	17

Source: FAO (2024).

Notes:

1. The EU covers 27 member states as at September 2024. This excludes the UK. Cyprus is included in EU total but is part of FAO's Asia region.

These figures are outside the scope of National Statistics. For further information see Chapter 10: Sources and Methodology.

## 9.7 Apparent consumption of wood products

Apparent consumption (defined as production + imports – exports) of wood products around the world totalled 475 million cubic metres sawnwood, 374 million cubic metres wood-based panels and 414 million tonnes of paper and paperboard in 2022 (Table 9.6).

Around 40% of all sawnwood in 2022 was consumed in Asia and around one quarter in North & Central America (26%) and in Europe (25%). Reflecting the decreased production of sawnwood (see Table 9.5), apparent consumption of sawnwood decreased by over 1% overall between 2021 and 2022. This was largely driven by decreases in Asia.

Asia consumed 57% of the world's wood-based panels in 2022, around one fifth (22%) was consumed in Europe and 15% in North & Central America. Apparent consumption of wood-based panels worldwide decreased by 8% between 2021 and 2022, largely resulting from falling demand in Asia and in Europe.

Over one half (51%) of all paper and paperboard in 2022 was consumed in Asia, 22% in Europe and a further 20% in North & Central America. At a global level, apparent consumption of paper and paperboard decreased by 1% between 2021 and 2022.

Table 9.6 Apparent consumption of wood products by region, World, 1990 to 2022

Region	1990	2000	2010	2021	2022
<b>Sawnwood (million cubic metres)</b>	<b>426</b>	<b>387</b>	<b>372</b>	<b>482</b>	<b>475</b>
Europe	158	121	110	117	119
UK	13	10	9	11	9
EU <sup>1</sup>	83	90	82	84	87
Africa	10	10	17	16	16
Asia	112	78	116	196	189
North and Central America	119	143	95	125	124
Oceania	6	8	8	8	9
South America	20	27	26	18	18
<b>Woodbased panels (million cubic metres)</b>	<b>127</b>	<b>181</b>	<b>282</b>	<b>403</b>	<b>374</b>
Europe	52	57	67	88	84
UK	5	6	6	7	6
EU <sup>1</sup>	36	46	48	59	58
Africa	1	2	3	6	6
Asia	25	50	148	229	208
North and Central America	44	64	48	61	57
Oceania	2	2	3	3	3
South America	3	6	12	15	14
<b>Paper &amp; paperboard (million tonnes)</b>	<b>236</b>	<b>325</b>	<b>391</b>	<b>418</b>	<b>414</b>
Europe	71	90	95	91	90
UK	9	12	11	7	7
EU <sup>1</sup>	53	72	74	72	71
Africa	4	5	7	8	8
Asia	62	103	178	216	213
North and Central America	88	109	90	83	81
Oceania	3	5	5	4	4
South America	8	12	16	16	17

Source: FAO (2024).

Notes:

1. The EU covers 27 member states as at September 2024. This excludes the UK. Cyprus is included in EU total but is part of FAO's Asia region.

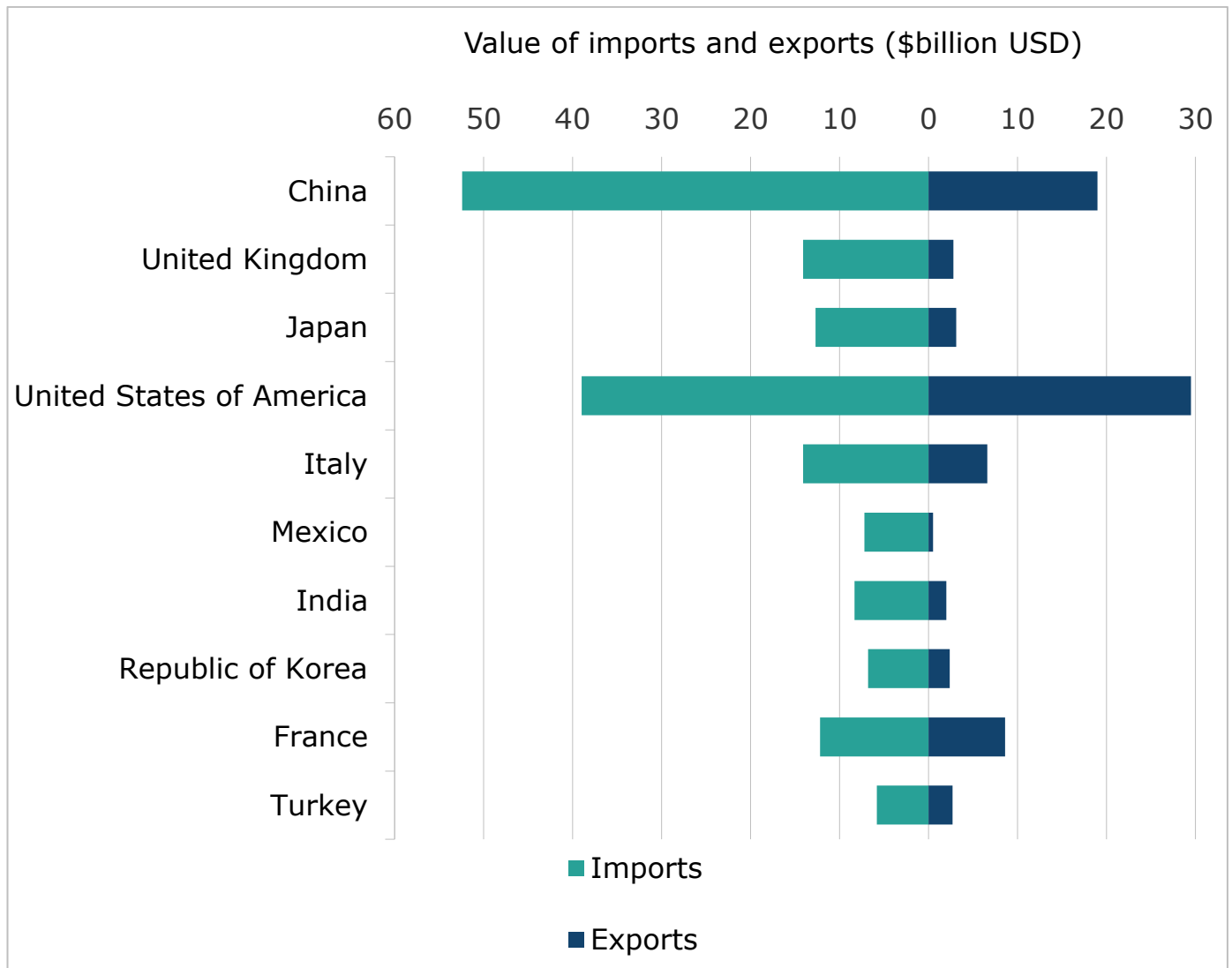
These figures are outside the scope of National Statistics. For further information see Chapter 10: Sources and Methodology.

## 9.8 World trade in forest products

Figures 9.6 and 9.7 show the largest ten net importers and exporters (ranked by value) of forest products in 2022. This covers trade in roundwood, sawnwood, wood-based panels, wood pulp and paper and paperboard, but excludes trade in secondary processed wood (e.g., furniture made from wood). Values are expressed in US dollars (USD; the units reported in the data published by FAO).

The UK was the second largest net importer (imports less exports) of forest products in 2022, with net imports of \$11.3 billion USD (Figure 9.6). The largest net importer in 2022 were China (\$33.4 billion USD). Japan (\$9.6 billion USD) and the United States of America (\$9.5 billion USD) fell behind the UK as third and fourth largest producers respectively.

Figure 9.6 Largest net importers of forest products, World, 2022



Source: FAO (2024).

Notes:

1. Excludes trade in secondary wood products.

These figures are outside the scope of National Statistics. For further information see Chapter 10: Sources and Methodology.

The largest net exporters (exports less imports) of forest products in 2022 were Canada (with net exports valued at \$23.1 billion USD), Sweden (US \$14.2 billion USD) and Brazil (\$13.2 billion USD) (Figure 9.7).

Figure 9.7 Largest net exporters of forest products, World, 2022



Source: FAO (2024).

Notes:

1. Excludes trade in secondary wood products.

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