

**INFORMATION  
ON FORESTS AND FORESTRY**  
in the Czech Republic by **2016**



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# I GENERAL MACROECONOMIC CONDITIONS IN THE CZECH REPUBLIC AND FORESTRY POSITION IN NATIONAL ECONOMY

## Macroeconomic indicators of national economic development

Indicator	Unit	2015	2016
GDP in current prices	CZK billion	4 554.6	4 715.1
	year-on-year index	105.6	103.5
GDP in constant prices 2005 (adjusted for season variations)	year-on-year index	104.5	102.3
Relative GDP per capita <sup>1)</sup>	EU 28 = 100	87	
Average monthly earnings (nominal) <sup>2)</sup>	CZK	26 467	27 589
	year-on-year index	102.7	104.2
Average inflation rate	%	0.3	0.7
Mean interest rates on bank credits <sup>3)</sup>	%	2.77	2.58
Trade balance <sup>4)</sup>	CZK billion	188	250.6
Current account of balance of payments	CZK billion	11.3	52.6
Balance of the state budget	CZK billion	-62.8	61.8
Consolidated gross debt in the sector of state institutions <sup>5)</sup>	CZK billion	1 836.3	1 754.9
Deficit in the sector of state institutions <sup>5)</sup>	% GDP	-0.63	0.62
Debt in the sector of state institutions <sup>5)</sup>	% GDP	40.32	37.22
Unemployment rate (mean) <sup>6)</sup>	%	5	4
Parity (mean) - CZK/€	CZK	27.283	27.033
	- CZK/\$	24.6	24.432

### Notes:

<sup>1)</sup> Purchasing power parity, data for 2016 were not published.

<sup>2)</sup> Average monthly gross nominal earnings on a full-time equivalent number of employees in the national economy.

<sup>3)</sup> Interest rates on CZK-denominated loans - situations of trades, 12-month average.

<sup>4)</sup> Figure 1. Aa – Goods in the balance sheet of ČNB after introducing guidelines BPM6 in 2014.

<sup>5)</sup> Balance in the sector of state institutions (ESA 2010).

<sup>6)</sup> Share of unemployed persons in total labour force by Eurostat and ILO.

Source: Czech Statistical Office, ČNB, Eurostat

## Share of agriculture<sup>1)</sup>, forestry<sup>2)</sup>, fishery<sup>3)</sup>, food industry<sup>4)</sup>, wood-processing industry<sup>5)</sup>, paper industry<sup>6)</sup> and furniture production<sup>7)</sup> on the GVA in basic prices (%)

Year	Agriculture	Forestry	Fishery	Food industry	Wood-processing industry	Paper industry	Furniture production
Current prices							
2010	1.08	0.59	0.013	2.33	0.634	0.416	0.360
2011	1.62	0.74	0.020	2.31	0.616	0.376	0.348
2012	1.83	0.77	0.018	2.25	0.593	0.376	0.346
2013	1.88	0.79	0.015	2.22	0.566	0.372	0.337
2014	1.98	0.75	0.016	2.24	0.595	0.418	0.326
2015	1.75	0.71	0.015	2.17	0.603	0.438	0.319
2016	1.78	0.66	0.016	2.17	0.628	0.464	0.347
Constant prices of 2010							
2010	1.08	0.59	0.013	2.33	0.634	0.416	0.360
2011	1.04	0.62	0.019	2.44	0.592	0.381	0.373
2012	1.11	0.63	0.017	2.32	0.584	0.384	0.379
2013	1.08	0.63	0.015	2.19	0.494	0.362	0.374
2014	1.18	0.58	0.013	2.15	0.468	0.384	0.367
2015	1.19	0.59	0.012	2.14	0.482	0.385	0.369
2016	1.27	0.63	0.012	2.21	0.486	0.438	0.407

### Notes:

<sup>1)</sup> CZ-NACE 01 Crop and animal production, hunting and related activities.

<sup>2)</sup> CZ NACE 02 Forestry and logging.

<sup>3)</sup> CZ NACE 03 Fishing and aquaculture.

<sup>4)</sup> CZ NACE 10+11+12 Manufacture of food products, beverages and tobacco products.

<sup>5)</sup> CZ-NACE 16 Wood processing, production of wood, cork, wicker and straw products, except furniture

<sup>6)</sup> CZ-NACE 17 Production of paper and paper products

<sup>7)</sup> CZ-NACE 31 Furniture production

Source: Czech Statistical Office, quarterly accounts results; revised data

## 2 FOREST OWNERSHIP STRUCTURE

Most forest land is owned by the state and is predominantly managed by LČR, s.p. Private entities and municipalities represent other major forest owners. More substantial modifications in the ownership structure are to come in the following years as a result of restitution of forest property to Churches.



### Forest ownership structure

Ownership		Area of forest stands	
		(ha)	%
State forests		1 496 290	57.42
of which	LČR, s. p.	1 251 858	48.04
	Vojenské lesy a statky ČR, s. p. (military forests)	123 298	4.73
	Ministry of the Environment (National Parks)	95 515	3.67
	Regional forests (secondary schools and other)	1 646	0.06
	Other	22 653	0.87
	Ministry of the Environment (Nature Conservation Agency of the Czech Republic)	1 321	0.05
Legal persons		80 849	3.10
Municipal forests		444 668	17.06
Forests owned by Churches and other religious entities		52 475	2.01
Forest cooperatives and associations		30 747	1.18
Forests owned by individuals		500 070	19.19
Other forests (not listed elsewhere)		911	0.03
Total		2 606 010	100.00

Source: FMI





### 3. FOREST SECTOR OVERVIEW

#### 3.1 Forest Reproductive Material

##### Recognised Sources of Forest Reproductive Material

The central records of recognised sources of forest reproductive material in the Czech Republic are managed by the Forest Management Institute (hereinafter referred to as the "FMI"), an authorised person, which keeps the so-called Register of Recognised Sources of Reproductive Material. For each approved unit, the Institute registers the tree species, category of reproductive material, type of source, registration number, location, altitude or altitudinal zone, area, origin, and in case of tested reproductive material also information whether the organism is genetically modified or not.

The Register of Recognised Sources of Reproductive Material is a web application named ERMA2, with its public section accessible through the web portal of the Ministry of Agriculture [www.eagri.cz](http://www.eagri.cz).

##### Sources of identified reproductive material

As at 31 December 2016, the registered reduced tree area (i.e. the tree area fully useable for standing volume production) amounted to 63 592.32 ha of source type "stand" in total 7 573 recognised units. Total 460 recognised units of type "seed source" were registered.

##### Sources of selected reproductive material

As at 31 December 2016, the registered reduced tree area was 68 777.66 ha of source type "stand" in 6 382 recognised units. Approved stands of phenotype category "A" covered 7 587.63 ha, while the phenotype category "B" represented an area of 61 189.45 ha.

##### Sources of qualified reproductive material

###### Parent trees / clones

As at 31 December 2016, the Register of Recognised Sources of Reproductive Material recorded total 8 891

clones, namely 6 095 clones of conifers and 2 796 clones of broadleaves. The Register comprises clones of total 40 tree species, i.e. 10 conifers and 30 broadleaves.

###### Seed orchards

At 31 December 2016, the Register of Recognised Sources of Reproductive Material listed total 136 recognised seed orchards of total 312.13 ha, which are established for 10 conifer and 13 broadleaf tree species.

###### Clone mixtures

Total 25 recognised clone mixtures for 5 tree species were registered in the Czech Republic in 2016, covering an overall area of 18.11 ha.

#### 3.2 Forest Nursery Practice

##### Licences

The basic prerequisite for handling with forest reproductive material is a respective licence. As at 31 December 2016, the central register of seed suppliers of the Ministry of Agriculture listed total 617 licence holders, namely 320 individuals and 297 legal persons.

Based on the data submitted to the authorised entity (FMI) by licence holders entitled to marketing the forest reproductive material, there were total 270 suppliers owning at least one production plant operating in the sector of forest nursery practice in 2016.

##### Area of forest nurseries

On the date of 31 December 2015, the total area of forest nurseries marketing forest reproductive material amounted to 2 272.32 ha, the actual production area covering 1 619.07 ha. In addition to open production areas, the records listed 4.22 ha of glass greenhouses, 24.54 ha of plastic greenhouses and 10.71 ha of hotbeds.





### 3.3 Forest Regeneration and Reforestation

The area of regenerated forest stands is 24 742 ha in 2016 and shows the balance trend in the long term in comparison with past years. Replanting dropt down positively, the area of natural regeneration grew up positively, which is 4 813 ha in 2016.

Share of broadleaves of artificial regeneration is stable in the long term. The share slightly rose in comparison with past years. In 2016 the share was 40.4%.

### 3.4 Timber Harvest

The raw timber harvested in the Czech Republic in 2016 totalled 17.61 million m<sup>3</sup>. Compared to 2015, this was 1.45 million m<sup>3</sup> more. Salvage cutting in 2016 substantially contributed to that volume with its share of 53.4% and totalled 9.4 million m<sup>3</sup>.



#### Forest regeneration (ha)

Method of regeneration	2000	2010	2012	2014	2015	2016
Artificial	21 867	21 859	19 903	20 203	18 797	19 929
of which Replanting	4 371	3 087	3 751	4 634	5 246	4 433
Natural	3 422	5 127	5 561	5 726	4 749	4 813
Total	25 309	26 986	25 464	25 929	23 546	24 742

Source: Czech Statistical Office

#### Total annual timber harvest

Harvest	Unit	2000	2010	2012	2014	2015	2016
Conifers	mil. m <sup>3</sup>	12.85	15.07	13.06	13.47	14.38	15.92
Broadleaves		1.59	1.67	2.01	2.00	1.78	1.69
Total		14.44	16.74	15.06	15.48	16.16	17.61
Per capita	m <sup>3</sup>	1.41	1.59	1.43	1.47	1.53	1.67
Per 1 ha of forest		5.48	6.30	5.66	5.80	6.06	6.60

Note: Volumes are given in m<sup>3</sup> under bark, minimum top diameter 7cm.

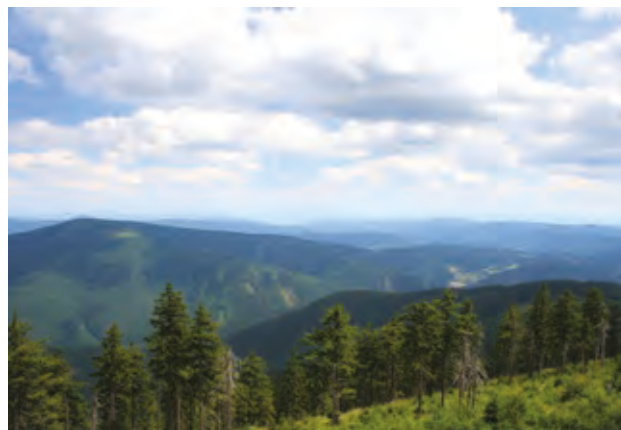
Source: Czech Statistical Office

### 3.5 Certification of Sustainable Forest Management

#### Overview of certified forests

Ownership	PEFC	FSC
	Area of certified forests (ha)	
State forests	1 440 780	35 116
Individuals	81 311	4
Legal entities	73 574	10 228
Municipal forests	184 594	7 179
Total	1 780 259	52 527

Source: FMI





## 4 MAJOR INDICATORS IN TIMBER PRODUCTION

### 4.1 Changes in Forest Land Area

The total area of forest land in the Czech Republic has been constantly increasing. This is partly thanks to afforestation of new land, which exceeds the extent of transformation of forest land for other purposes, and partly thanks to the improvements as to the precision of data from the Land Register. In 2016, the forest land area increased in year-on-year terms by 1 458 ha.

#### Changes in forest land area (ha)

Year	2010	2012	2014	2015	2016
Forest land area	2 657 376	2 661 889	2 666 376	2 668 392	2 669 850

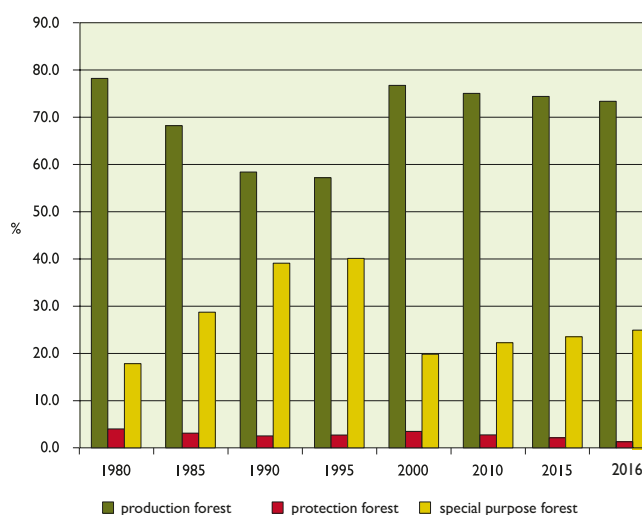
Source: Czech Office for Surveying, Mapping and Cadastre

### 4.2 Forest Categories by Their Functions

Individual categories of forests are distinguished by their prevailing functions. A slight but persistent increment in the category of special purpose forests may be observed. Among other factors, this is caused by increasing demands of the society on non-wood forest functions. The total area of protection forests decreased again against 2015 by 7 396 ha.



#### Development of forest categories



Source: FMI

### 4.3 Species Composition of Forests

The total area of main coniferous species, particularly spruce, further declined. In contrast, the share of broadleaves, particularly beech, has been augmenting.



**Species composition in ha and in % of total timber land**

Species	Year					
	2000	2010	2013	2014	2015	2016
	Timber land in ha and %					
Norway spruce	1 397 012	1 347 239	1 327 398	1 319 733	1 315 487	1 312 204
	54.1	51.9	51.1	50.7	50.6	50.5
Fir	23 138	25 869	27 509	28 251	28 699	29 086
	0.9	1.0	1.1	1.1	1.1	1.1
Pine	453 159	436 308	431 721	429 636	428 030	425 687
	17.6	16.8	16.6	16.5	16.5	16.4
Larch	97 170	100 761	100 917	100 749	100 283	99 917
	3.8	3.9	3.9	3.9	3.9	3.8
Other conifers	4 586	6 352	7 048	7 755	7 846	8 068
	0.2	0.2	0.3	0.3	0.3	0.3
Total conifers	1 975 065	1 916 529	1 894 593	1 886 124	1 880 344	1 874 961
	76.5	73.9	72.9	72.5	72.3	72.1
Oak	163 761	178 466	184 180	184 441	185 044	186 718
	6.3	6.9	7.1	7.1	7.1	7.2
Beech	154 791	189 998	202 638	207 595	211 835	215 535
	6.0	7.3	7.8	8.0	8.2	8.3
Birch	74 560	72 264	71 628	71 779	71 796	71 579
	2.9	2.8	2.8	2.8	2.8	2.8
Other broadleaves	183 696	209 559	215 602	219 363	219 207	221 243
	7.1	8.1	8.3	8.4	8.4	8.5
Total broadleaves	576 808	650 287	674 048	683 178	687 882	695 075
	22.3	25.1	25.9	26.3	26.5	26.7
Total excl. unstocked areas	2 551 873	2 566 816	2 568 641	2 569 302	2 568 227	2 570 036
	98.8	98.9	98.8	98.7	98.8	98.8

Source: FMI

**4.4 Growing Stock and Increments**

Compared to 1930, the total growing stock in Czech forests more than doubled. The factors contributing to the fact are a higher increment and more precise determination using new methods and instruments implemented in the 60's and 70's of the 20<sup>th</sup> century.

The total growing stock in Czech forests continued to extend also in the year 2016. This was thanks to a slight increase in stand stocking, an increase in the percentage of older stands.

However, not all the stock is equally accessible for felling. The volume of felled timber in protection and special purpose forests is limited by fulfilment of protective functions or by special purpose management. In most cases, no felling operations may be carried out in forests with an increased protection regime, in nature reserves, and in first zones of national parks. The average growing stock per ha of forest land (i.e. growing stock on timber land including clear-cuts) is 261 m<sup>3</sup>.



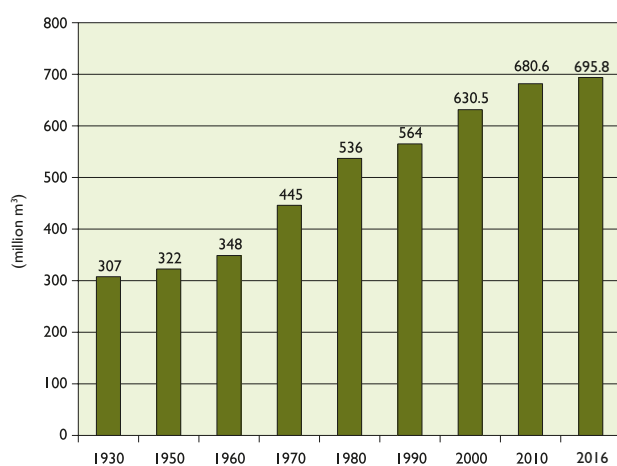


**Total mean and total current annual increment**

Increment	Year						
	1950*	1970	1980	1990	2000	2010	2016
	million m <sup>3</sup> u.b. annually						
Total mean	9.0	13.5	16.0	16.3	16.8	17.7	17.9
Total current	9.2	14.8	17.1	17.0	19.8	21.2	22.0
	m <sup>3</sup> u. b. per ha of timber land annually						
	1950*	1970	1980	1990	2000	2010	2016
	million m <sup>3</sup> u.b. annually						
Total mean	3.7	5.3	6.2	6.3	6.5	6.8	7.0
Total current	3.8	5.8	6.7	6.6	7.7	8.2	8.6

**Note:** \* Including forests under 10 ha of size, forest not intended for wood supply and afforested non forest land.

**Source:** FMI

**Development of growing stock volume (million m<sup>3</sup>)**



## 5. FORESTRY SECTOR ECONOMY

### 5.1 State Budget Funds for the Forestry Sector

#### Governmental Financial Obligations Subject to the Forest Act

In 2016, the state allocated total CZK 203.4 million under the obligations determined by the Forest Act. The amount of CZK 7.2 million was granted as part payment to cover the increased costs of planting the minimum number of soil improving and stabilising tree species on the total area of 1 561 ha of regenerated forest stands. CZK 155.8 million was paid to cover the activities of licensed forest managers who manage forests of up to 50 ha in case these did not contract their own licensed forest manager. The allocated amount corresponds the work of licensed forest managers on total 387 892 ha of forests. The state reimburses the costs of forest management guidelines to forest owners who own a total forest area of up to 50 ha and do not have a forest management plan drawn up for their property. The overall amount allocated for such forest owners reached CZK 20.6 million and provided for management guidelines for total 49 986 ha of forest land. The data stated above apply to forest management guidelines valid from 1 January 2017 with the funds allocated in 2016. An amount of CZK 19.9 million was granted to support measures relating to soil improvement and torrent control carried out upon a decision of a state forest administration body in the public interest. Such measures were adopted to control torrents of 2 km in length, and to build or repair water reservoirs of total water retention capacity of 102 thousand m<sup>3</sup>. No measures involving forest soil improvement through water regime control were taken in 2016. The data regarding the above-mentioned measures relate to actions completed in 2016 and supported from the state budget in the preceding years.

#### Government financial obligations subject to the Forest Act (CZK million)

Activities	2013	2014	2015	2016
Soil-improving and stabilising species	11.3	12.4	9.9	7.2
Licensed forest managers	155.2	155.1	155.5	155.8
Forest management guidelines	17.6	11.9	10.6	20.6
Soil improvement and torrent control	28.0	24.5	26.5	19.9
Total	212.1	203.9	202.5	203.4

Source: Ministry of Agriculture

#### State Services Supporting Forest Management

The state provides services free of charge to help forest owners improve the standards of forest management and ensure forest protection against damaging agents. Within its consulting services, the state mainly supplies forest owners with up-to-date information concerning preventive protection of their forests and potential protective measures against damaging agents.

#### State services supporting forest management (CZK million)

Type of service	2013	2014	2015	2016
Aerial liming and fertilisation	0.0	0.0	66.8	50.3
Aerial fire control services	1.2	1.2	3.5	1.3
Large-scale measures in forest protection	0.0	0.0	0.1	0.7
Consultancy	19.5	7.5	28.8	32.0
Other services	0.8	4.9	0.7	0.6
Total	21.5	13.6	99.9	84.9

Source: Ministry of Agriculture

#### Subsidies from State Budget

Support in form of subsidies granted for forest management and selected game management activities is provided from the state budget under the Government Decree No. 30/2014 Coll., on determining binding rules for granting subsidies to forest management and selected game management activities (hereinafter referred to as the "Government Decree"). Such subsidies are granted to forest owners (or persons having the rights and obligations of a forest owner as established by the Forest Act), and to users of hunting grounds, owners of hunting dogs or owners of breeding stations of hunting birds of prey.



**Subsidies for forest management granted from the budget of the Ministry of Agriculture by purpose and ownership category (CZK million)**

Purpose of subsidy	Ownership category	2013	2014	2015	2016
Regeneration of forests affected by air pollution	Municipal	4.3	9.9	12.8	9.1
	State	0.0	0.0	0.0	0.0
	Other	0.9	8.1	10.5	8.9
	Total	5.2	18.0	23.4	18.1
Regeneration, establishment and tending of stands	Municipal	43.0	59.0	49.2	48.3
	State	0.4	0.4	0.0	0.0
	Other	91.7	93.1	82.0	98.1
	Total	135.1	152.5	131.2	146.4
Green and environmentally friendly technologies	Municipal	3.7	2.9	3.9	4.6
	State	0.07	0.0	0.0	0.0
	Other	14.6	8.7	16.9	21.0
	Total	18.4	11.6	20.8	25.5
Subsidies to users of hunting grounds	Municipal	0.01	0.0	0.0	0.0
	State	0.8	0.6	0.6	0.3
	Other	9.7	8.3	8.9	9.1
	Total	10.5	8.9	9.5	9.5
Elaboration of forest management plans	Municipal	6.7	9.8	9.9	7.5
	State	0.0	0.0	0.0	0.2
	Other	8.7	8.5	17.1	18.1
	Total	15.4	18.3	26.9	25.8
Breeding and training of national hunting dog breeds and hunting birds of prey	Municipal	0.0	0.0	0.0	0.0
	State	0.0	0.0	0.0	0.0
	Other	1.9	2.1	2.1	2.3
	Total	1.9	2.1	2.1	2.3
Total subsidies	Municipal	57.8	81.6	75.8	69.5
	State	3.0	2.8	0.6	0.5
	Other	127.6	129.0	137.5	157.5
	Total	188.4	213.4	214.0	227.5

Source: Ministry of Agriculture





## 6. TIMBER MARKET

### 6.1 Domestic Timber Market

The total timber supplies experienced a year-on-year rise by 1 454 thousand m<sup>3</sup> amounting to 17 617 thousand m<sup>3</sup>, while softwood supplies represented 15 924 thousand m<sup>3</sup> and hardwood supplies totalled 1 693 thousand m<sup>3</sup>.



#### Timber supplies (1 000 m<sup>3</sup>)

Supplied assortments (excl. imports)		2014	2015	2016
Roundwood <sup>x)</sup>		8 548	8 964	10 341
of which	Softwood	7 955	8 468	9 869
	Hardwood	593	496	472
Pulpwood <sup>xx)</sup>		4 817	4 863	4 932
of which	Softwood	4 351	4 403	4 505
	Hardwood	466	460	427
Fuelwood		2 111	2 336	2 344
of which	Softwood	1 166	1 514	1 550
	Hardwood	945	822	794
Total timber supplies		15 476	16 163	17 617
of which	Softwood	13 472	14 385	15 924
	Hardwood	2 004	1 778	1 693

**Note:** <sup>x)</sup> Including pole and mine timber.

<sup>xx)</sup> Including groundwood.

The volumes of logging residues and chips approximately 1.8 million m<sup>3</sup> in 2014, 2.0 million m<sup>3</sup> in 2015 and 1.9 million m<sup>3</sup> in 2016 are not included in the total supplies of roundwood.

**Source:** Czech Statistical Office, Ministry of Agriculture







## 6.2 Timber Export and Import

### Timber exports and imports

	Exports	Imports	Balance	Exports	Imports	Balance	Exports	Imports
	CZK million			1 000 m <sup>3</sup>			Average price CZK/m <sup>3</sup>	
Total	13 069	4 444	8 625	7 303	2 906	4 397	1 790	1 529
of which								
EU - 27	12 943	3 907	9 036	7 244	2 585	4 659	1 787	1 511
Germany	5 255	638	4 617	2 716	508	2 208	1 935	1 256
Austria	6 425	157	6 268	3 643	165	3 478	1 764	952
Slovakia	374	1 609	- 1 235	215	1 054	-839	1 740	1 527
Poland	33	1 262	- 1 229	22	777	-755	1500	1 624

Source: <sup>1)</sup> Czech Statistical Office, <sup>2)</sup> Ministry of Agriculture

### Timber exports and imports (1 000 m<sup>3</sup>)

Assortment	Exports	Imports
Softwood roundwood and pulp	5 079	1 500
of which		
Spruce	4 566	1 227
Pine	240	255
Other	273	18
Hardwood roundwood and pulp	147	295
of which		
Oak	13	135
Beech	104	103
Poplar	3	4
Birch	2	12
Other	25	41
Industrial roundwood	5 226	1 795
Charcoal	1	21
Fuelwood	195	25
Chips, particles	361	381
Sawdust, Wood Waste, Residues	277	363
Wood pellets and other agglomerates	1 243	321
Total	7 303	2 906

Source: Czech Statistical Office, Ministry of Agriculture

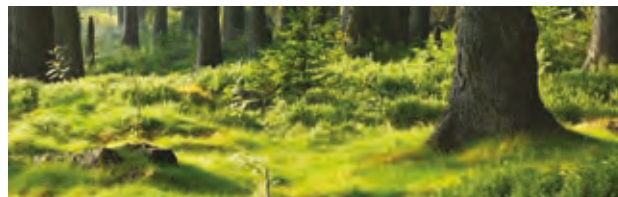




## 7. OTHER FOREST-BASED ACTIVITIES AND SECTORS

### 7.1 Game Management

In 2016, the country registered 5 815 hunting grounds under game management with their total area of 6 887 969 ha. These comprised 205 game preserves of total 48 560 ha and 295 pheasantries of total 96 799 ha.



#### Hunting of main game species (pcs)

Game species	2012	2013	2014	2015	2016
Red Deer	23 120	23 593	23 378	23 990	26 162
Fallow Deer	14 742	16 570	16 848	19 033	20 498
Mouflon	9 378	9 446	9 313	9 688	9 727
Roe Deer	108 616	105 686	100 395	99 861	100 852
Sika Deer	12 559	12 866	14 037	14 571	16 152
Dybowsky's Sika Deer	12 559	12 866	14 037	14 571	16 152
Wild Boar	185 381	152 468	169 483	186 148	160 484
Duck	268 485	256 375	262 381	255 195	249 779
Pheasant	518 208	459 412	479 659	465 907	472 983
Hare	56 310	37 694	39 956	36 515	32 988

Source: Ministry of Agriculture, Ministry of the Environment, Czech Statistical Office

#### Spring stocks of main game species (pcs)

Game species	2012	2013	2014	2015	2016
Red Deer	31 818	26 618	27 666	28 223	29 495
Fallow Deer	27 745	27 774	28 598	31 099	32 880
Mouflon	21 318	19 435	20 076	20 471	21 143
Roe Deer	305 052	290 661	288 656	291 241	294 952
Wild Boar	64 848	59 175	59 517	60 966	62 134

Source: Ministry of Agriculture, Ministry of the Environment, Czech Statistical Office

### 7.2 Timber Processing Industry

The total log breakdown in the Czech Republic reached the volume of 7 200 million m<sup>3</sup> of softwood and hardwood roundwood, which was used to produce 4 067 million m<sup>3</sup> of softwood sawn wood and 0.233 million m<sup>3</sup> of hardwood sawn wood.

In comparison with last year softwood and hardwood sawnwood was produced more by 150 thousand m<sup>3</sup>. Export of softwood and hardwood sawnwood increased by 138 thousand m<sup>3</sup> and the import increase by 16 thousand m<sup>3</sup> in comparison with last year. The domestic consumption of sawnwood partially increased by 28 thousand m<sup>3</sup>.

#### Log breakdown and sawn wood production (l 000 m<sup>3</sup>)

	2014	2015	2016
Log breakdown	6 400	6 900	7 200
Sawn wood production	3 861	4 150	4 300

Source: Ministry of Agriculture



**Market with timber products (I 000 m<sup>3</sup>)**

Product	Year	Production	Import	Export	Consumption
Softwood roundwood <sup>x)</sup>	2014	7 955	1 044	3 058	5 941
	2015	8 468	980	2 948	6 500
	2016	9 869	700	3 806	6 763
Hardwood roundwood <sup>x)</sup>	2014	593	149	156	586
	2015	496	152	183	465
	2016	472	166	66	572
Softwood sawn wood	2014	3 610	569	3 075	1 104
	2015	3 920	534	3 323	1 131
	2016	4 067	629	3 528	1 168
Hardwood sawn wood	2014	251	177	224	204
	2015	230	191	215	206
	2016	233	112	148	197
Particle boards	2014	1 036	690	1 342	384
	2015	1 040	743	1 390	393
	2016	1 112	729	1 442	399
Plywood	2014	181	82	124	139
	2015	180	88	124	144
	2016	212	93	161	144
Fibreboards	2014	41	236	91	186
	2015	44	222	93	173
	2016	32	240	99	173
Softwood pulpwood <sup>xx)</sup>	2014	4 351	1 014	1 543	3 822
	2015	4 403	1 000	1 294	4 109
	2016	4 505	800	1 273	4 032
Hardwood pulpwood	2014	466	232	174	524
	2015	460	197	105	552
	2016	427	129	81	475

**Note:** x) Including pole and mine timber.  
xx) Including groundwood.

**Source:** Ministry of Agriculture

**7.3 Pulp and Paper Industry**

The consumption of softwood timber for pulp production reached 3 620 thousand m<sup>3</sup>, i.e. 2 350 thousand m<sup>3</sup> of softwood pulp and 1 270 thousand m<sup>3</sup> of softwood chips and particles.

The pulp and paper industry produced total 449 thousand tons of pulp in 2016, chemical pulp representing 445 thousand tons.

**Consumption of wood for pulp production (I 000 m<sup>3</sup>)**

Timber assortment	Consumption		
	2014	2015	2016
Chips and particles	1 358	1 440	1 270
Pulpwood	2 439	2 229	2 350
Total	3 797	3 669	3 620

**Source:** Association of the Czech Pulp and Paper Industry

**Pulp, paper, paperboard, and cardboard production (I 000 t)**

Product	2014	2015	2016
Mechanical pulp	0	0	0
Chemical pulp	442	431	445
Pulp of other fibres	3	4	4
Total	445	435	449
Paper, paperboard, and cardboard	704	740	795

**Source:** Association of Czech Pulp and Paper Industry







## 8. ABBREVIATIONS

CZK	Czech koruna (currency)
ČNB	Czech National Bank
ESA	European System of Accounts
EU	European Union
FMI	Forest Management Institute
FSC CR	Forest Stewardship Council - Czech Republic
GDP	Gross Domestic Product
GVA	Gross Value Added
LČR, s. p.	Forests of the Czech Republic, State Enterprise
ILO	International Labour Organization
PEFC CR	Programme for the Endorsement of Forest Certification Schemes – Czech Republic





## 9. CONTACTS TO SELECTED FORESTRY ORGANISATIONS IN THE CZECH REPUBLIC

### **Ministry of Agriculture of the Czech Republic**

Těšnov 65/17  
110 00 Praha 1  
info@mze.cz  
www.eagri.cz/en

### **Ministry of the Environment of the Czech Republic**

Vršovická 1442/65,  
100 10 Praha 10  
info@mzp.cz  
www.mzp.cz

### **Czech University of Life Sciences Prague Faculty of Forestry and Wood Sciences**

Kamýcká 1176,  
165 21 Praha 6 – Suchbát  
<http://www.fld.czu.cz/>

### **Mendel University in Brno Faculty of Forestry and Wood Technology**

Zemědělská 3,  
613 00 Brno  
[www.lfd.mendelu.cz/](http://www.lfd.mendelu.cz/)

### **Forest Management Institute**

Nábřežní 1326  
250 01 Brandýs nad Labem  
podatelna@uhul.cz  
www.uhul.cz

### **Forestry and Game Management Research Institute**

156 04 Praha 5 – Zbraslav  
admin@vulhm.cz  
www.vulhm.cz

### **The Association of Municipal and Private Forest Owners in the Czech Republic**

K Silu 1980  
393 01 Pelhřimov  
info@svol.cz  
www.svol.cz

### **Lesy České republiky, s.p. (Forests of the Czech Republic, State Enterprise)**

Přemyslova 1106/19  
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lesycr@lesycr.cz  
www.lesycr.cz

### **Vojenské lesy a statky ČR, s. p. (Military Forests and Farms, State Enterprise)**

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