



Wood Resource Balances of EU-28

years 2009 - 2015

Background information and definitions are available in: Cazzaniga N.E., Jonsson R., Pilli R., Camia A. (2019). *Wood Resource Balances of EU-28 and Member States*. EC Joint Research Centre, Publications Office of the European Union, Luxembourg, doi:10.2760/020267, JRC114889.

This publication is part of JRC's contribution to the European Commission's Knowledge Centre for Bioeconomy. This work has been carried out in the context of the JRC Biomass Study in support of the EU Bioeconomy Strategy.

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Wood Resource Balance 2009

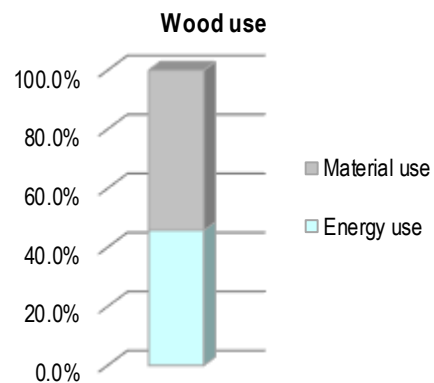
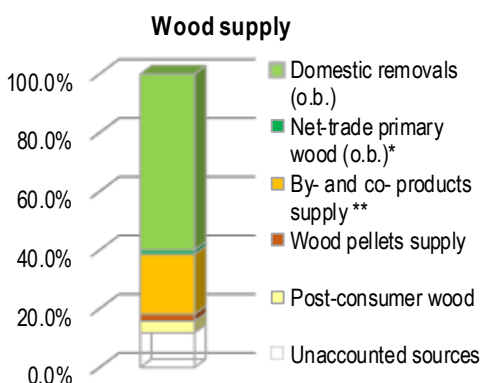
(all units in SWE)

SOURCES		1000m ³	%	%	1000m ³	USES
PRIMARY	Industrial roundwood (conifer): Removals	237,917	32.3%	20.4%	150,107	Sawmill industry (conifer)
	Industrial roundwood (non-conifer): Removals	65,688	8.9%	2.2%	16,507	Sawmill industry (non-conifer)
	Industrial roundwood (conifer): Net-trade *	4,315	0.6%	0.4%	3,152	Veneer sheets industry
	Industrial roundwood (non-conifer): Net-trade *	4,677	0.6%	1.0%	7,278	Plywood industry
	Fuel wood (conifer): Removals	24,412	3.3%	6.6%	48,410	Particle board industry
	Fuel wood (non-conifer): Removals	60,194	8.2%	3.3%	24,049	Fiberboard industry
	Fuel wood: Net-trade *	497	0.1%	3.2%	23,845	Mechanical pulp industry
	Bark	55,018	7.5%	14.1%	104,139	Chemical pulp industry
SECONDARY	Sawmill residues	74,896	10.2%	0.4%	3,065	Semi-chemical pulp industry
	Other industrial residues	9,456	1.3%	0.5%	3,446	Dissolving pulp industry
	Wood chips and particles: Net-trade *	4,028	0.5%	2.1%	15,652	Wood pellets industry
	Other wood residues: Net-trade *	4,730	0.6%	19.4%	142,769	Direct Wood
	Wood pellets	15,652	2.1%	20.8%	153,552	Indirect Wood
	Wood pellets: Net-trade *	1,523	0.2%	5.6%	41,247	Unknown Wood
	Black liquor	57,441	7.8%			
Post-consumer wood	29,766	4.0%				
Unaccounted sources	87,007	11.8%				
Total sources		737,218			737,218	Total uses

Summary wood supply and use 2009

Wood supply	1000m ³	%
Domestic removals (o.b.)	441,936	59.9%
Net-trade primary wood (o.b.)*	10,784	1.5%
By- and co- products supply **	150,552	20.4%
Wood pellets supply	17,174	2.3%
Post-consumer wood	29,766	4.0%
Unaccounted sources	87,007	11.8%

Wood use	1000m ³	%
Material use	399,650	54.2%
Energy use	337,568	45.8%



* negative values indicate net-export
 ** excluding bark

Material uses	1000m ³	%
Sawmill industry	166,614	43.4%
Wood pulp industry	134,495	35.0%
Panel industry	82,889	21.6%

Net annual increment 2009 (1000m³)

Tree components	all forest	FAWS
Stemwood	666,711	563,963
Other woody components	317,481	268,554
Total	984,192	832,517

Energy uses (H&P)	1000m ³	%
Energy transformation	NA	-
Industrial internal consumption	NA	-
Residential sector	NA	-
Other	NA	-

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Wood Resource Balance 2010

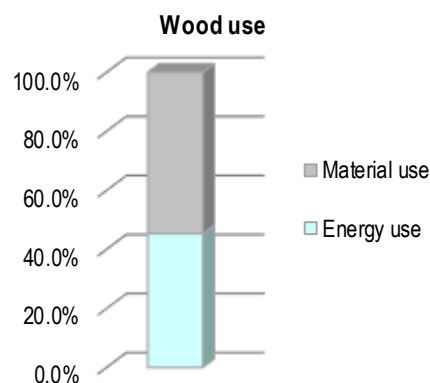
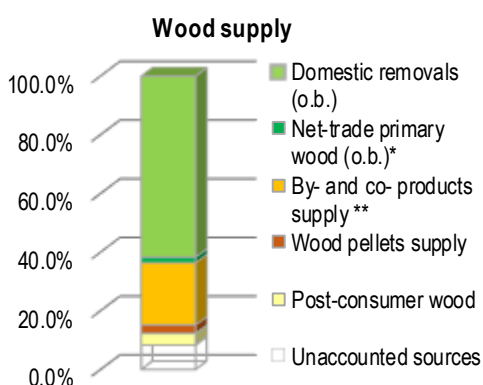
(all units in SWE)

SOURCES		1000m ³	%	%	1000m ³	USES
PRIMARY	Industrial roundwood (conifer): Removals	266,286	33.7%	20.9%	165,108	Sawmill industry (conifer)
	Industrial roundwood (non-conifer): Removals	72,335	9.2%	2.3%	18,137	Sawmill industry (non-conifer)
	Industrial roundwood (conifer): Net-trade *	7,634	1.0%	0.4%	3,445	Veneer sheets industry
	Industrial roundwood (non-conifer): Net-trade *	6,049	0.8%	1.1%	8,689	Plywood industry
	Fuel wood (conifer): Removals	25,280	3.2%	6.2%	48,816	Particle board industry
	Fuel wood (non-conifer): Removals	64,097	8.1%	3.2%	25,392	Fiberboard industry
	Fuel wood: Net-trade *	-543	-0.1%	3.2%	25,294	Mechanical pulp industry
	Bark	60,993	7.7%	14.2%	111,998	Chemical pulp industry
SECONDARY	Sawmill residues	82,397	10.4%	0.4%	2,947	Semi-chemical pulp industry
	Other industrial residues	10,503	1.3%	0.4%	3,263	Dissolving pulp industry
	Wood chips and particles: Net-trade *	6,108	0.8%	2.3%	18,529	Wood pellets industry
	Other wood residues: Net-trade *	6,890	0.9%	19.3%	152,018	Direct Wood (interpolated)
	Wood pellets	18,529	2.3%	20.0%	157,763	Indirect Wood (interpolated)
	Wood pellets: Net-trade *	4,120	0.5%	6.1%	48,255	Unknown Wood (interpolated)
	Black liquor	61,538	7.8%			
Post-consumer wood	31,920	4.0%				
Unaccounted sources	65,516	8.3%				
Total sources		789,652			789,652	Total uses

Summary wood supply and use 2010

Wood supply	1000m ³	%
Domestic removals (o.b.)	487,200	61.7%
Net-trade primary wood (o.b.)*	14,932	1.9%
By- and co- products supply **	167,436	21.2%
Wood pellets supply	22,648	2.9%
Post-consumer wood	31,920	4.0%
Unaccounted sources	65,516	8.3%

Wood use	1000m ³	%
Material use	431,617	54.7%
Energy use	358,035	45.3%



* negative values indicate net-export

** excluding bark

Net annual increment 2010 (1000m³)

Tree components	all forest	FAWS
Stemwood	684,716	577,689
Other woody components	302,549	255,258
Total	987,264	832,947

Material uses	1000m ³	%
Sawmill industry	183,245	44.4%
Wood pulp industry	143,502	34.7%
Panel industry	86,341	20.9%

Energy uses (H&P)	1000m ³	%
Energy transformation	NA	-
Industrial internal consumption	NA	-
Residential sector	NA	-
Other	NA	-

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Wood Resource Balance 2011

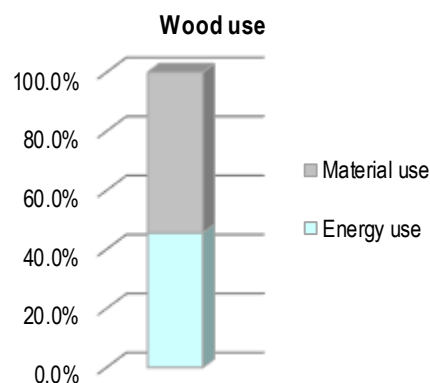
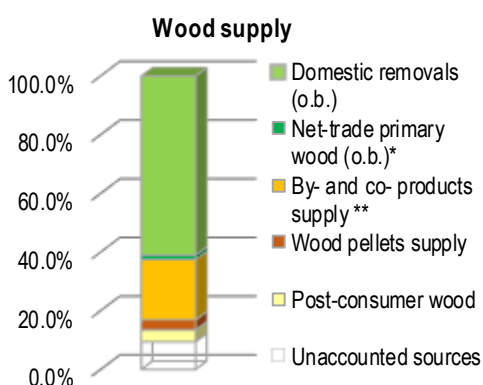
(all units in SWE)

SOURCES		1000m ³	%	%	1000m ³	USES
PRIMARY	Industrial roundwood (conifer): Removals	262,951	32.5%	20.7%	167,473	Sawmill industry (conifer)
	Industrial roundwood (non-conifer): Removals	77,492	9.6%	2.2%	17,787	Sawmill industry (non-conifer)
	Industrial roundwood (conifer): Net-trade *	5,257	0.6%	0.4%	3,374	Veneer sheets industry
	Industrial roundwood (non-conifer): Net-trade *	5,971	0.7%	1.1%	9,101	Plywood industry
	Fuel wood (conifer): Removals	26,296	3.2%	5.9%	47,970	Particle board industry
	Fuel wood (non-conifer): Removals	67,229	8.3%	3.2%	26,165	Fiberboard industry
	Fuel wood: Net-trade *	-72	0.0%	3.0%	24,547	Mechanical pulp industry
	Bark	61,577	7.6%	14.1%	114,298	Chemical pulp industry
SECONDARY	Sawmill residues	83,269	10.3%	0.4%	3,040	Semi-chemical pulp industry
	Other industrial residues	10,689	1.3%	0.5%	3,898	Dissolving pulp industry
	Wood chips and particles: Net-trade *	6,345	0.8%	2.8%	23,071	Wood pellets industry
	Other wood residues: Net-trade *	2,616	0.3%	19.6%	158,647	Direct Wood
	Wood pellets	23,071	2.8%	20.5%	165,741	Indirect Wood
	Wood pellets: Net-trade *	4,544	0.6%	5.6%	45,021	Unknown Wood
	Black liquor	63,178	7.8%			
Post-consumer wood	33,353	4.1%				
Unaccounted sources	76,364	9.4%				
Total sources		810,131			810,131	Total uses

Summary wood supply and use 2011

Wood supply	1000m ³	%
Domestic removals (o.b.)	494,024	61.0%
Net-trade primary wood (o.b.)*	12,678	1.6%
By- and co- products supply **	166,097	20.5%
Wood pellets supply	27,615	3.4%
Post-consumer wood	33,353	4.1%
Unaccounted sources	76,364	9.4%

Wood use	1000m ³	%
Material use	440,723	54.4%
Energy use	369,408	45.6%



* negative values indicate net-export

** excluding bark

Net annual increment 2011 (1000m³)

Tree components	all forest	FAWS
Stemwood	702,130	591,246
Other woody components	287,235	241,873
Total	989,366	833,119

Material uses	1000m ³	%
Sawmill industry	185,259	44.4%
Wood pulp industry	145,782	34.9%
Panel industry	86,611	20.7%

Energy uses (H&P)	1000m ³	%
Energy transformation	NA	-
Industrial internal consumption	NA	-
Residential sector	NA	-
Other	NA	-

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Wood Resource Balance 2012

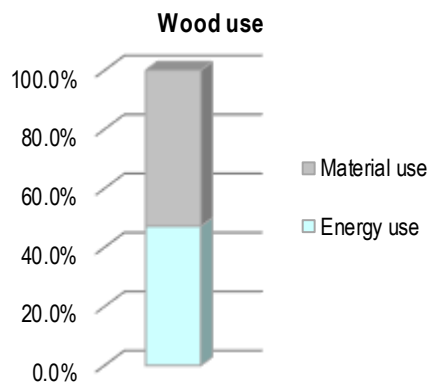
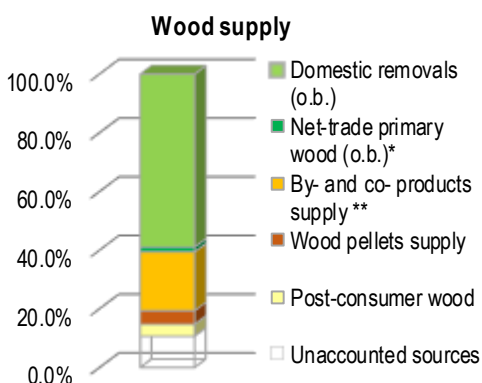
(all units in SWE)

SOURCES		1000m ³	%	%	1000m ³	USES
PRIMARY	Industrial roundwood (conifer): Removals	250,829	30.0%	19.3%	161,043	Sawmill industry (conifer)
	Industrial roundwood (non-conifer): Removals	79,928	9.6%	2.2%	18,393	Sawmill industry (non-conifer)
	Industrial roundwood (conifer): Net-trade *	6,112	0.7%	0.3%	2,853	Veneer sheets industry
	Industrial roundwood (non-conifer): Net-trade *	6,260	0.7%	1.1%	9,253	Plywood industry
	Fuel wood (conifer): Removals	28,871	3.5%	5.4%	45,048	Particle board industry
	Fuel wood (non-conifer): Removals	73,147	8.7%	3.2%	27,088	Fiberboard industry
	Fuel wood: Net-trade *	16	0.0%	2.8%	23,073	Mechanical pulp industry
	Bark	61,659	7.4%	13.8%	115,347	Chemical pulp industry
SECONDARY	Sawmill residues	80,947	9.7%	0.4%	3,171	Semi-chemical pulp industry
	Other industrial residues	10,394	1.2%	0.7%	6,143	Dissolving pulp industry
	Wood chips and particles: Net-trade *	3,654	0.4%	3.6%	30,406	Wood pellets industry
	Other wood residues: Net-trade *	7,258	0.9%	19.7%	164,555	Direct Wood (interpolated)
	Wood pellets	30,406	3.6%	21.8%	182,398	Indirect Wood (interpolated)
	Wood pellets: Net-trade *	8,244	1.0%	5.7%	47,596	Unknown Wood (interpolated)
	Black liquor	65,140	7.8%			
Post-consumer wood	34,210	4.1%				
Unaccounted sources	89,293	10.7%				
Total sources	836,368			836,368	Total uses	

Summary wood supply and use 2012

Wood supply	1000m ³	%
Domestic removals (o.b.)	492,745	58.9%
Net-trade primary wood (o.b.)*	14,078	1.7%
By- and co- products supply **	167,393	20.0%
Wood pellets supply	38,650	4.6%
Post-consumer wood	34,210	4.1%
Unaccounted sources	89,293	10.7%

Wood use	1000m ³	%
Material use	441,819	52.8%
Energy use	394,549	47.2%



* negative values indicate net-export
 ** excluding bark

Material uses	1000m ³	%
Sawmill industry	179,436	43.6%
Wood pulp industry	147,734	35.9%
Panel industry	84,242	20.5%

Net annual increment 2012 (1000m³)

Tree components	all forest	FAWS
Stemwood	687,631	577,929
Other woody components	303,837	255,364
Total	991,467	833,292

Energy uses (H&P)	1000m ³	%
Energy transformation	NA	-
Industrial internal consumption	NA	-
Residential sector	NA	-
Other	NA	-

Wood Resource Balance 2013

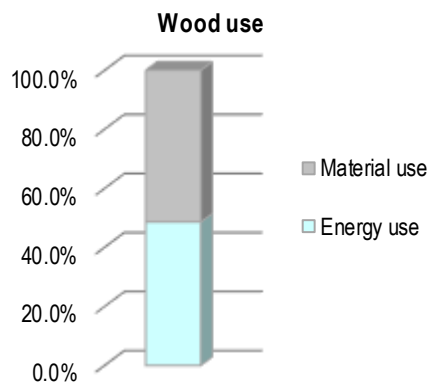
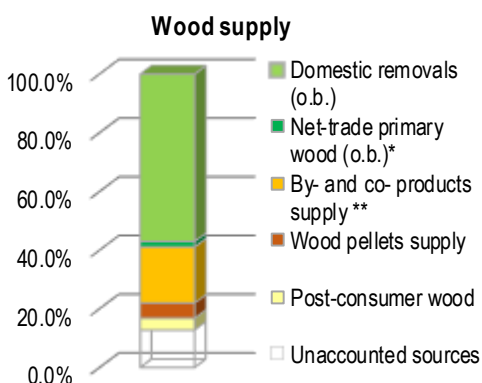
(all units in SWE)

SOURCES		1000m ³	%	%	1000m ³	USES
PRIMARY	Industrial roundwood (conifer): Removals	255,480	29.1%	18.7%	163,715	Sawmill industry (conifer)
	Industrial roundwood (non-conifer): Removals	78,153	8.9%	2.1%	18,614	Sawmill industry (non-conifer)
	Industrial roundwood (conifer): Net-trade *	7,538	0.9%	0.3%	2,750	Veneer sheets industry
	Industrial roundwood (non-conifer): Net-trade *	6,935	0.8%	1.1%	9,728	Plywood industry
	Fuel wood (conifer): Removals	30,406	3.5%	5.2%	45,185	Particle board industry
	Fuel wood (non-conifer): Removals	74,904	8.5%	3.2%	28,021	Fiberboard industry
	Fuel wood: Net-trade *	12	0.0%	2.5%	21,727	Mechanical pulp industry
	Bark	62,810	7.2%	13.1%	114,675	Chemical pulp industry
SECONDARY	Sawmill residues	82,424	9.4%	0.3%	3,037	Semi-chemical pulp industry
	Other industrial residues	10,659	1.2%	1.0%	9,117	Dissolving pulp industry
	Wood chips and particles: Net-trade *	3,625	0.4%	3.9%	33,791	Wood pellets industry
	Other wood residues: Net-trade *	4,165	0.5%	18.8%	165,047	Direct Wood
	Wood pellets	33,791	3.9%	22.8%	200,116	Indirect Wood
	Wood pellets: Net-trade *	11,284	1.3%	7.0%	60,965	Unknown Wood
	Black liquor	66,622	7.6%			
Post-consumer wood	35,618	4.1%				
Unaccounted sources	112,061	12.8%				
Total sources	876,488			876,488	Total uses	

Summary wood supply and use 2013

Wood supply	1000m ³	%
Domestic removals (o.b.)	499,778	57.0%
Net-trade primary wood (o.b.)*	16,459	1.9%
By- and co- products supply **	167,495	19.1%
Wood pellets supply	45,075	5.1%
Post-consumer wood	35,618	4.1%
Unaccounted sources	112,061	12.8%

Wood use	1000m ³	%
Material use	450,360	51.4%
Energy use	426,128	48.6%



* negative values indicate net-export
 ** excluding bark

Material uses	1000m ³	%
Sawmill industry	182,329	43.8%
Wood pulp industry	148,556	35.7%
Panel industry	85,684	20.6%

Net annual increment 2013 (1000m³)

Tree components	all forest	FAWS
Stemwood	705,113	591,492
Other woody components	288,455	241,974
Total	993,569	833,465

Energy uses (H&P)	1000m ³	%
Energy transformation	NA	-
Industrial internal consumption	NA	-
Residential sector	NA	-
Other	NA	-

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Wood Resource Balance 2014

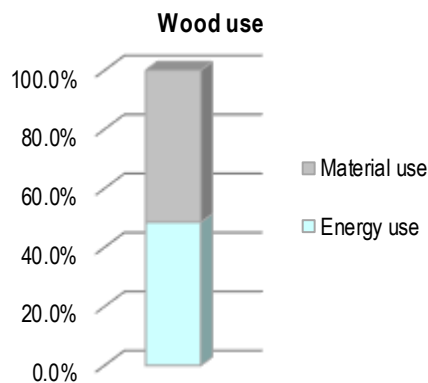
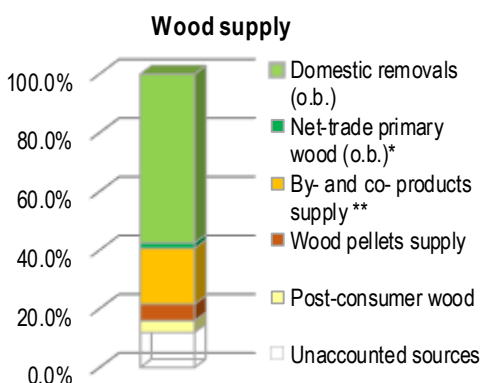
(all units in SWE)

SOURCES		1000m ³	%	%	1000m ³	USES
PRIMARY	Industrial roundwood (conifer): Removals	268,444	29.9%	19.0%	170,847	Sawmill industry (conifer)
	Industrial roundwood (non-conifer): Removals	78,994	8.8%	2.1%	18,498	Sawmill industry (non-conifer)
	Industrial roundwood (conifer): Net-trade *	7,097	0.8%	0.3%	3,034	Veneer sheets industry
	Industrial roundwood (non-conifer): Net-trade *	7,417	0.8%	1.1%	9,952	Plywood industry
	Fuel wood (conifer): Removals	31,192	3.5%	5.2%	46,523	Particle board industry
	Fuel wood (non-conifer): Removals	74,918	8.3%	3.2%	28,694	Fiberboard industry
	Fuel wood: Net-trade *	202	0.0%	2.3%	21,070	Mechanical pulp industry
	Bark	64,833	7.2%	12.7%	114,519	Chemical pulp industry
SECONDARY	Sawmill residues	85,819	9.6%	0.3%	2,954	Semi-chemical pulp industry
	Other industrial residues	11,049	1.2%	1.1%	9,841	Dissolving pulp industry
	Wood chips and particles: Net-trade *	3,598	0.4%	4.1%	36,480	Wood pellets industry
	Other wood residues: Net-trade *	3,547	0.4%	18.2%	163,598	Direct Wood (interpolated)
	Wood pellets	36,480	4.1%	23.2%	208,809	Indirect Wood (interpolated)
	Wood pellets: Net-trade *	13,909	1.5%	7.1%	63,529	Unknown Wood (interpolated)
	Black liquor	66,966	7.5%			
Post-consumer wood	36,480	4.1%				
Unaccounted sources	107,402	12.0%				
Total sources		898,346			898,346	Total uses

Summary wood supply and use 2014

Wood supply	1000m ³	%
Domestic removals (o.b.)	516,374	57.5%
Net-trade primary wood (o.b.)*	16,723	1.9%
By- and co- products supply **	170,979	19.0%
Wood pellets supply	50,388	5.6%
Post-consumer wood	36,480	4.1%
Unaccounted sources	107,402	12.0%

Wood use	1000m ³	%
Material use	462,411	51.5%
Energy use	435,936	48.5%



* negative values indicate net-export
 ** excluding bark

Material uses	1000m ³	%
Sawmill industry	189,344	44.5%
Wood pulp industry	148,384	34.8%
Panel industry	88,203	20.7%

Net annual increment 2014 (1000m³)

Tree components	all forest	FAWS
Stemwood	690,546	578,168
Other woody components	305,125	255,470
Total	995,670	833,638

Energy uses (H&P)	1000m ³	%
Energy transformation	NA	-
Industrial internal consumption	NA	-
Residential sector	NA	-
Other	NA	-

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Wood Resource Balance 2015

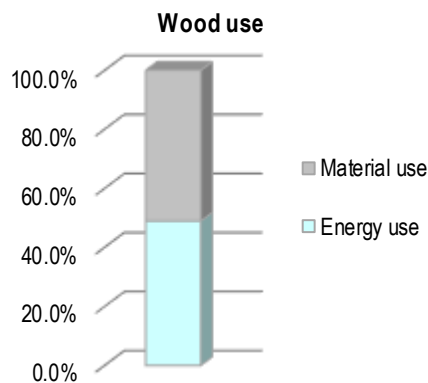
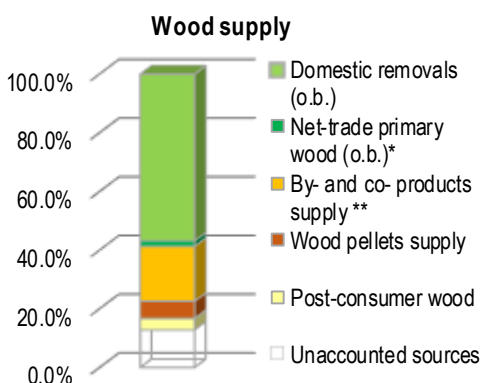
(all units in SWE)

SOURCES		1000m ³	%	%	1000m ³	USES
PRIMARY	Industrial roundwood (conifer): Removals	271,449	29.5%	18.9%	174,100	Sawmill industry (conifer)
	Industrial roundwood (non-conifer): Removals	79,224	8.6%	2.1%	18,885	Sawmill industry (non-conifer)
	Industrial roundwood (conifer): Net-trade *	9,410	1.0%	0.3%	2,873	Veneer sheets industry
	Industrial roundwood (non-conifer): Net-trade *	6,815	0.7%	1.1%	10,001	Plywood industry
	Fuel wood (conifer): Removals	34,780	3.8%	5.2%	47,734	Particle board industry
	Fuel wood (non-conifer): Removals	73,811	8.0%	3.3%	30,281	Fiberboard industry
	Fuel wood: Net-trade *	-535	-0.1%	2.2%	20,324	Mechanical pulp industry
	Bark	65,731	7.1%	12.5%	114,861	Chemical pulp industry
SECONDARY	Sawmill residues	87,508	9.5%	0.3%	2,880	Semi-chemical pulp industry
	Other industrial residues	11,128	1.2%	1.1%	9,848	Dissolving pulp industry
	Wood chips and particles: Net-trade *	2,982	0.3%	4.1%	37,958	Wood pellets industry
	Other wood residues: Net-trade *	3,218	0.3%	18.0%	165,930	Direct Wood
	Wood pellets	37,958	4.1%	24.1%	222,287	Indirect Wood
	Wood pellets: Net-trade *	15,698	1.7%	6.8%	62,864	Unknown Wood
	Black liquor	67,153	7.3%			
Post-consumer wood	36,714	4.0%				
Unaccounted sources	117,782	12.8%				
Total sources	920,826			920,826	Total uses	

Summary wood supply and use 2015

Wood supply	1000m ³	%
Domestic removals (o.b.)	522,855	56.8%
Net-trade primary wood (o.b.)*	17,829	1.9%
By- and co- products supply **	171,989	18.7%
Wood pellets supply	53,656	5.8%
Post-consumer wood	36,714	4.0%
Unaccounted sources	117,782	12.8%

Wood use	1000m ³	%
Material use	469,744	51.0%
Energy use	451,082	49.0%



* negative values indicate net-export
 ** excluding bark

Material uses	1000m ³	%
Sawmill industry	192,985	44.7%
Wood pulp industry	147,913	34.3%
Panel industry	90,888	21.0%

Net annual increment 2015 (1000m³)

Tree components	all forest	FAWS
Stemwood	706,605	591,614
Other woody components	289,066	242,024
Total	995,670	833,638

Energy uses (H&P)	1000m ³	%
Energy transformation	NA	-
Industrial internal consumption	NA	-
Residential sector	NA	-
Other	NA	-