

AGRICULTURE AND FISHERIES

THEME 5 - 9/2001

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Forestry: Wood and wood-based products

Yves Zanatta, Eero Mikkola

The wood-based products and the paper industry (NACE 20 and 21 excluding the furniture) represent 2% of the total value added and 1.3% of the labour force (labour force survey 1999) in EU. We can estimate out that 1.7 million persons work in the wood-based products and the paper industry and around 0.3 million persons work in the sylviculture.

Forest

The wooded area (136 million ha) covers more than 40% of the territory in EU. However not all wooded area is used for wood production; for example a part of it is used for the protection of land or the area is not accessible for wood harvesting. Furthermore the other wooded land is not normally used for regular wood production. Based on age-class distribution and density of the forest, it is only possible to harvest certain amount of wood from wooded area yearly (the average cutting age for trees is around 100 years varying by species and regions).

Forest and other wooded land

	Total		Forest land (F)					
		Total	Forest available for wood supply	Other fo rest				
			(1000 ha)					
EU-15	136,204	113,567	95,525	18,042	22,637			
EUR-11	96,404	80,030	68,647	11,383	16,375			
Belgique/België	672	646	639	7	26			
Danmark	538	445	440	5	93			
Deutschland	10,740	10,740	10,142	598	0			
Elláda	6,513	3,359	3,094	265	3,154			
España	25,984	13,509	10,479	3,030	12,475			
France	16,989	15,156	14,470	686	1,833			
Ireland	591	591	580	11	0			
Italia	10,842	9,857	6,013	3,844	985			
Luxembourg	89	86	86	0	3			
Nederland	339	339	314	25	0			
Österreich	3,924	3,840	3,352	488	84			
Portugal	3,467	3,383	1,897	1,486	84			
Suomi/Finland	22,768	21,883	20,675	1,208	885			
Sverige	30,259	27,264	21,236	6,028	2,995			
United Kingdom	2,489	2,469	2,108	361	20			
Canada	417,584	244,571	125,863	118,708	173,013			
Russian Federation	886,538	816,538	525,191	291,347	70,000			
United States	298,135	217,333	198,123	19,210	80,802			

Source: TBFRA 2000

Wood production

Wood Production for Forest available for wood supply

	Grow ing stock	Net annual increment				nnual felling	S	Annual removals			
	Total	Coniferous	Non- coniferous	Total	Coniferous	Non- coniferous	Total	Coniferous	Non- coniferous	Total	
					(1000m³ (overbark)					
EU-15	13,419,213	:	:	459,506	:	:	302,505	:	:	264,657	
EUR-11	10,364,681	:	:	352,765	:	:	222,146	:	:	182,997	
Belgique/België	139,835	3,359	1,778	5,137	3,150	1,250	4,400	3,150	1,250	4,400	
Danmark	55,200	2,200	1,000	3,200	1,468	726	2,194	1,468	726	2,194	
Deutschland	2,820,000	63,521	25,477	88,998	37,179	11,405	48,584	29,743	9,124	38,867	
Elláda	139,800	1,760	1,760	3,520	:	:	2,550	625	1,783	2,408	
España	486,815	16,686	11,903	28,589	6,577	4,451	11,028	:	:	10,000	
France	2,835,655	39,538	52,761	92,299	31,180	28,994	60,174	22,910	24,701	47,611	
Ireland	41,000	3,400	50	3,450	2,295	35	2,330	2,295	35	2,330	
Italia	876,744	6,112	12,601	18,713	1,824	6,922	8,746	1,682	6,699	8,381	
Luxembourg	20,217	:	:	667	:	:	425	180	180	360	
Nederland	52,088	1,128	1,077	2,205	950	488	1,438	836	383	1,219	
Österreich	1,037,307	21,926	5,411	27,337	16,132	3,389	19,521	14,308	2,613	16,921	
Portugal	188,020	7,890	5,010	12,900	6,200	5,000	11,200	6,100	4,900	11,000	
Suomi/Finland	1,867,000	56,646	15,824	72,470	43,500	10,800	54,300	40,800	8,700	49,500	
Sverige	2,566,532	71,514	13,917	85,431	57,277	8,838	66,115	53,526	7,740	61,266	
United Kingdom	293,000	12,740	1,850	14,590	8,300	1,200	9,500	7,300	900	8,200	
lceland	370	32	5	37	0	0	0	0	0	0	
Liechtenstein	1,400	12	6	18	12	4	16	10	4	14	
Norw ay	671,412	17,512	4,529	22,041	10,291	1,341	11,632	9,673	1,207	10,880	
Sw itzerland	354,050	5,341	2,814	8,155	5,121	1,955	7,076	4,405	1,681	6,086	
	:										
Canada	17,354,560	158,280	69,200	227,480	:	:	:	179,900	34,228	214,128	
Russian Federation	60,922,156	464,000	278,000	742,000	89,300	36,200	125,500	:	:	:	
United States	27,035,000	386,000	308,000	694,000	353,000	170,000	523,000	318,000	134,000	452,000	

Source: TBFRA 2000

The forest available for wood supply is 96 million ha representing 70% of the wooded area (FOWL) in the EU. The share of forest available for wood supply is higher in the North and Middle-Europe than in the Mediterranean countries where the "other wooded land" is important and the forests play an important role in soil protection.

The growing stock (volume of all live trees) gives an overview of a potential wood production. France, Germany, Sweden and Finland are the countries, which have the most important volume of growing stock in relation to the importance of the forest area (F).

The growing stock of the wooded area is increased by the net annual increment and reduced by the annual fellings. The net annual increment depends on the tree species, the length of the average rotation, the age classes, the state of the soil and climatic conditions. The growing stock increases each year in EU15.

The removals represent the real volume of wood production of the forest and other wooded land. In average they represent more than 85% of fellings in the EU.

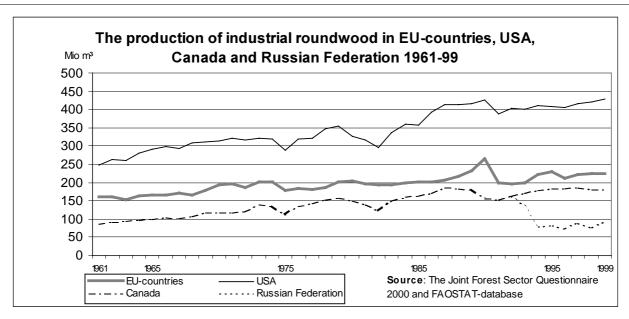
In EU, 70% of the wood removed from the forests is coniferous wood.

The share of coniferous wood is more significant in the North-Europe, while the non-coniferous wood is important in the Mediterranean countries (Spain, Greece and Italy). In France, the shares of coniferous and non-coniferous wood are about equal.

The total wood production, also called roundwood production, includes all the wood coming from the removals in the forest or coming from non-forest trees. This roundwood production comprises all wood, which is used for the industrial roundwood and for the fuelwood (including charcoal).



Industrial roundwood



The industrial roundwood production of EU was 224 million m³ in 1999, which was 4 million m³ more than the average during the 1990s. The industrial roundwood production of EU has not increased as much as the production of forest industry

products; the increasing demand of raw material was compensated by imports of roundwood. which reach 33 million m³ in 1999. Since 1960 the roundwood production has increased 42% in EU15 while during that time it has increased by 64%

and 102% in USA and in Canada respectively. EU15 produced 15% and USA 28% of the world's industrial roundwood production in 1999.

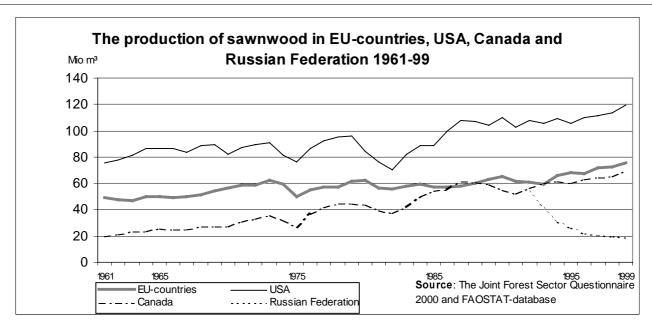
Industrial roundwood total

		P ro ductio n		lm	ports Tot	al	Imp. fro	m 3 rd co	untries	E	xports Tot	al	Exports	to 3 rd c	o untries
	1997	1998	1999	1997	1998	1999	1997	1998	1999	1997	1998	1999	1997	1998	1999
		1000 m³													
EU-15	224,215	225,366	224,274	23,273	28,710	32,938				2,564	3,125	3,196			
EUR-11	158,826	162,104	162,420	15,914	19,964	22,990				1,359	1,728	1,783			
Belgique/België	:	:	3,850	:	:	3,390	:	:	449	:	:	1,352	:	:	97
UEBL / BLEU	3,920	:		2,823	3,000		129	179		902	1,123		60	105	
Danmark	1,192	1,046	1,043	909	729	819	98	92	82	212	279	349	58	92	166
Deutschland	35,488	36,441	35,063	1,770	2,255	2,722	869	1,083	1,591	4,135	4,871	3,987	696	986	1,020
Elláda	547	495	812	269	283	292	211	214	217	3	3	3	0	0	0
España	:	13,165	13,160	2,116	4,136	3,228	1,058	1,058	1,562	1,137	509	321	27	33	62
France	32,162	32,718	33,530	1,801	1,759	1,856	1,087	1,205	1,211	2,293	2,999	3,047	176	245	282
Ireland	2,117	2,193	2,520	75	112	322	16	15	22	262	90	176	1	0	0
Italia	3,924	4,367	4,213	4,514	5,143	4,830	1,652	2,595	2,237	6	14	17	3	7	9
Luxembourg	:	:	242	:	:	458	:		0	:		291	:	:	2
Nederland	986	873	882	402	526	428	101	115	108	308	304	276	3	10	14
Österreich	11,302	10,858	10,988	5,277	5,113	7,039	3,180	3,135	4,788	825	792	985	74	66	56
Portugal	8,370	7,948	8,378	1,679	2,122	1,432	1,234	1,523	1,042	627	572	543	19	10	2
Suomi / Finland	47,757	49,541	49,594	6,734	9,235	10,160	6,588	9,057	9,980	640	711	758	300	266	239
Sverige	56,400	54,700	52,800	7,654	9,171	10,334	6,788	8,168	9,443	1,393	1,420	1,333	1,138	1,290	1,232
United Kingdom	7,250	7,021	7,199	576	460	314	262	272	206	40	214	152	9	15	15
Canada	185,859	180,984	180,829	6,681	6,954	6,946	-	-	-	701	2,029	2,917	-	-	-
Russian Federation	88,374	77,400	90,600	327	228	152	-	-	-	17,845	19,972	27,350	-	-	-
United States	416,092	420,458	429,056	582	840	840	-	-	-	10,864	12,290	12,433	-	-	-

Source: The Joint Forest Sector Questionnaire 2000



Sawnwood



The sawnwood production of EU was 76 million m³ in 1999, which was 9 million m³ (13%) more than the average during the 1990s. The increment of the production was directed to non-coniferous sawnwood. The biggest sawnwood

producers are Germany, Sweden, Finland, France and Austria, which take care of 85 % of EU's sawnwood production. Since 1960 the sawnwood production has increased 53% in EU-countries while during that time it has

increased by 47% and 211% in USA and in Canada respectively. EU15 produced 18% and USA produced 28% of the world's sawnwood production in 1999.

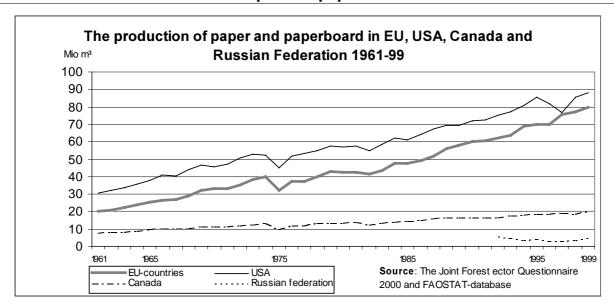
Sawnwood total

	ı	P ro ductio n		lm	ports Tot	al	Imp. fro	m 3 rd co	untries	E	cports Tot	al	Exports	to 3 rd c	ountries
	1997	1998	1999	1997	1998	1999	1997	1998	1999	1997	1998	1999	1997	1998	1999
			•				100	0 m ³		•					
EU-15	71,370	72,681	75,751	14,079	17,032	21,395				6,929	6,969	8,255			
EUR-11	52,829	54,800	57,908	9,637	12,578	16,583				4,141	4,270	5,321			
Belgique/België	:	:	1,056	:	:	2,112	:	:	950	:	:	1,064	:	:	18
UEBL / BLEU	1,150	1,264		2,007	2,400		708	700		471	600		68	70	
Danmark	386	238	344	2,356	4,383	4,416	378	730	602	367	352	342	73	80	78
Deutschland	14,849	14,972	16,329	6,132	6,076	6,178	3,185	3,037	3,608	2,260	2,669	2,478	359	367	558
Elláda	130	137	140	3,916	881	893	577	585	594	102	106	110	20	21	21
España	:	3,178	:	2,175	6,066	7,835	:	1,679	4,223	123	128	186	30	27	53
France	9,607	10,220	10,500	2,392	2,857	3,201	889	1,108	1,301	1,020	1,099	1,132	188	181	193
Ireland	642	675	811	462	568	638	166	213	186	282	129	165	0	0	0
Italia	1,751	1,615	1,630	6,905	7,091	7,456	2,379	3,253	3,523	140	174	325	82	113	179
Luxembourg	:	:	133	:	:	74	:	:	1	:	:	50	:	:	0
Nederland	400	349	362	3,431	3,534	3,606	1,270	1,342	1,450	377	415	446	77	40	58
Österreich	8,450	8,737	9,786	1,096	1,040	1,253	692	894	882	4,953	4,862	5,761	955	953	1,441
Portugal	1,450	1,490	1,430	190	230	273	127	152	189	407	428	338	75	63	43
Suomi / Finland	11,430	12,300	12,770	242	220	289	221	199	271	7,535	8,227	8,292	2,307	2,455	2,779
Sverige	15,669	15,124	14,858	211	257	310	136	187	250	10,921	10,996	11,062	2,686	2,593	2,830
United Kingdom	2,356	2,382	2,502	7,102	6,969	7,108	3,351	2,952	3,366	93	135	147	9	5	5
Canada	64,764	65,109	69,256	1,825	1,572	1,826	-	-	-	48,686	48,356	49,675	-	-	-
Russian Federation	20,600	19,580	18,980	64	32	11	-	-	-	5,026	4,881	6,433	-	-	-
United States	111,425	113,698	119,692	43,674	44,999	46,303	-	-	-	6,982	5,388	6,015	-	-	-

Source: The Joint Forest Sector Questionnaire 2000



Paper and paperboard



The total paper and paper board production of EU-countries was 80 million metric tonnes in 1999, which was 11 million metric tonnes (16%) more than the average during the 1990s. The production of the newsprint increased by 13% and the production of printing and writing papers increased by 19%. The main

paper and paper board producers in EU are Germany, Finland, Sweden, France and Italy which take care of 73% of EU's production. The biggest newsprint producer is Sweden and the biggest printing and writing paper producer is Finland. Since 1960 total paper and paper board production has increased

considerably in EU-countries (267%) while during that time it has increased by 159% and 139% in USA and in Canada respectively. EU15 produced 25% and USA 28% of the world's total paper and paperboard production in 1999.

Paper and paperboard

	F	Production	ı	lm	ports Tot	al	Imp.fro	m 3 rd cc	untries	E	cports Tot	al	Exports	to 3 rd c	o untries
	1997	1998	1999	1997	1998	1999	1997	1998	1999	1997	1998	1999	1997	1998	1999
		1000 m ³													
EU-15	74,710	77,557	79,750	:	7,027	7,234				:	11,223	12,087			
EUR-11	57,615	60,738	62,635	:	5,109	5,211				:	8,866	9,559			
Belgique/België	:	:	1,889	:	:	3,285	:	:	:	:	:	2,398	:	:	237
UEBL / BLEU	1,095	1,748		2,654	3,000		:	:	499	1,748	2,000		:	:	
Danmark	390	393	397	1,147	1,154	1,188	:	92	89	234	236	257	:	35	44
Deutschland	15,953	16,311	16,692	7,856	8,423	8,700	:	1,855	1,860	7,661	7,661	7,800	:	2,480	2,552
Elláda	469	70	72	553	572	584	:	135	150	41	43	44	:	26	30
España	:	4,196	4,436	2,770	3,192	3,090	:	568	600	1,041	1,274	1,279	:	324	378
France	9,143	9,161	9,500	4,189	5,728	5,966	:	714	329	3,467	4,146	4,622	:	697	850
Ireland	:	:	42	404	465	454	:	33	42	59	64	66	:	2	4
Italia	7,532	8,254	8,568	3,564	:	3,849	:	1,035	1,017	2,006	:	2,181	:	533	667
Luxembourg	:	:	0	:	:	76	:	:	6	:	:	25	:	:	2
Nederland	3,159	3,180	3,256	3,178	3,632	3,494	:	594	493	2,844	2,534	2,586	:	462	451
Österreich	3,816	4,009	4,142	893	1,023	1,141	:	200	249	2,905	3,047	3,148	:	873	943
Portugal	728	1,136	1,163	625	564	573	:	47	46	726	643	684	:	56	64
Suomi / Finland	12,149	12,703	12,947	232	302	304	:	63	76	10,161	10,979	11,207	:	3,439	3,411
Sverige	9,756	9,879	10,071	489	523	604	:	163	236	8,209	8,514	8,850	:	1,774	1,974
United Kingdom	6,480	6,477	6,575	7,098	6,725	7,108	:	1,528	1,548	1,673	1,789	1,813	:	522	480
Canada	18,969	18,725	20,147	2,529	2,170	2,472	_	_	_	14,834	14,174	14,658	_	-	-
Russian Federation	3,339	3,595	4468	458	300	338	_	-	-	1,447	1,767	2,055	_	-	-
United States	76,452	85,718	88,044	14,381	13,597	14,763	-			11,940	7,705	6,979			-

Source: The Joint Forest Sector Questionnaire 2000



Trade in secondary processed wooden products

Because the information of the secondary processed wooden products is becoming increasingly important in the forest products sector, in the framework of the joint

UN-ECE/Eurostat/FAO/ITTO forest sector questionnaire 2000 value data for trade was compiled first time for EU-countries in the sense of experiment. Here is the first overview of data for EU about this module.

Trade in secondary processed products in EU 15

		Impo	rts		Exports				
Product	1996	1997	1998	1999	1996	1997	1998	1999	
		•	•	Mio I	uro	•	•		
Further processed saw nw ood	694	794	830	870	588	648	713	772	
Coniferous	225	268	289	292	274	301	332	353	
Non-coniferous	469	526	541	579	314	347	381	418	
Wooden packing material	564	676	824	904	537	671	767	897	
Builder's joinery and carpentry of wood	2,120	2,276	2,424	2,518	1,866	2,120	2,175	2,263	
Wooden furniture	9,641	10,235	11,311	11,764	11,939	12,761	13,232	13,475	
Prefabricated buildings	803	835	938	966	1,204	1,347	1,425	1,508	
of w hich preponderantly made from w ood	334	370	406	414	446	482	488	518	
Secondary paper products	9,854	10,345	11,278	11,593	12,602	12,825	13,813	13,781	
Household and sanitary paper, ready for use	2,992	3,045	3,381	3,686	3,734	3,481	4,045	4,285	
Packaging cartons, boxes, etc.	2,704	2,854	3,066	3,131	3,543	3,657	3,881	3,914	
Other secondary paper products	4,157	4,446	4,831	4,776	5,325	5,688	5,887	5,582	
of w hich printing & w riting paper, ready for use	861	954	1,119	1,091	1,113	1,230	1,310	1,257	
Printed articles	5,916	6,454	8,607	8,870	9,586	10,099	12,267	12,101	
Printed books	2,596	2,822	3,516	3,640	3,946	4,205	4,976	4,972	
New spapers	1,315	1,411	2,061	2,111	2,176	2,136	2,700	2,555	
Other printed articles	2,005	2,221	3,029	3,118	3,464	3,758	4,590	4,574	

Source: The Joint Forest Sector Questionnaire 2000 and COMEXT-database

Information for following commodities were compiled:

Secondary processed wooden products:

- Further processed sawnwood,
- Wooden packaging material
- Builder's joinery and carpentery of wood
- Wooden furniture
- Prefabricated buildings, e.g. log cabins, houses predominantly prefabricated from wood-based panels.

Secondary paper products:

- Carbon paper and copying paper (ready for use)
- Household and sanitary paper
- Packaging cartons, cartons etc.
- Other articles of paper and paperboard (ready for use)

Printed articles: books, newspapers and other printed articles.



ESSENTIAL INFORMATION – METHODOLOGICAL NOTES

SOURCES

Forest resources: TBFRA 2000, Main report of Forest recources of Industrialized Temperate and Boreal Forest Resource Assessment) published by UN-ECE/FAO.

Production and trade (1995-99): The Joint ECE/EUROSTAT/FAO/ITTO forest sector questionnaire 2000). Eurostat (JQ **COMEXT-database**

Time series since 1961: FAO (FAOSTATdatabase http://apps.fao.org/).

Forest is defined as land with tree crown cover (or equivalent stocking level) of more than 10 percent and area of more than 0.5 ha. The trees should be able to reach a minimum height of 5 m at maturity in situ. It may consist either of closed forest formations where trees of various storeys and undergrowth cover a high proportion of the ground; or of open forest formations with a continuous vegetation cover in which tree crown cover exceeds 10 percent. Young natural stands and all plantations established for forestry purposes which have yet to reach a crown density of 10 percent or tree height of 5 m are included under forest, as they are areas normally forming part of the forest area which are temporarily unstocked as a result of human intervention or natural causes but which are expected to revert to forest.

Other wooded land is land either with a tree crown cover (or equivalent stocking level) of 5-10 percent of trees able to reach a height of 5 m at maturity in situ; or a crown cover (or equivalent stocking level) of more than 10 percent of trees not able to reach a height of 5 m at maturity in situ (e.g. dwarf or stunted trees) and shrub or bush cover.

Forest available for wood supply is forest where any legal, economic, or specific environmental restrictions do not have a significant impact on the supply of wood. Includes: areas where, although there are no such restrictions, harvesting is not taking

place, for example areas included in longterm utilisation plans or intentions.

> Growing stock is the living tree component of the standing volume. Standing volume is the volume of standing trees, living or dead, above-stump measured overbark to top. Includes all trees with diameter over 0 cm (d.b.h., diameter at breast height

> Net annual increment is defined as average annual volume over the given reference period of gross increment less that of natural losses on all trees to a minimum diameter of 0 cm (d.b.h.).

> The relation of annual fellings to annual removals is the following:

> Annual fellings are the average annual standing volume of all trees, living or dead, measured overbark to a minimum diameter of 0 cm (d.b.h.), that are felled during the given reference period, including the volume of trees or parts of trees that are not removed from the forest, other wooded land or other felling site. It includes silvicultural and pre-commercial thinnings and cleanings left in the forest; and trees killed or damaged by natural causes, e.g. fire, windblow, insects and diseases (natural losses) that are recovered (harvested).

> Annual removals are the average annual volume of those fellings that are removed from the forest, other wooded land or other felling site during the given reference period. It includes removals during the given reference period of trees felled during an earlier period and natural losses. (Generally, Removals are measured in m³ under bark; Fig. 1.4 and Table 1.4 are exceptions)

> Roundwood production (as a synonymous term for "Removals"): comprise all quantities of wood removed from the forest and other wooded land, and trees outside the forest during a certain period of time. Roundwood is divided into two principal categories: industrial roundwood and fuelwood. The commodities industrial included in

roundwood are logs, pulpwood, and pitprops and other industrial wood. Logs are used for the production of sawnwood (including sleepers) and veneer sheets. Pulpwood is wood in the rough other than logs, for the manufacture of pulp, particleboard and fibreboard. Fuelwood is wood in the rough (from trunks and branches of trees), to be used as fuel.

Sawnwood (m³ real volume): Wood that has been produced, either by sawing lengthways or by a profile-chipping process and that, with a few exceptions, exceeds 5 mm in thickness. It includes planks, beams, joists, boards, rafters, scantlings, laths, boxboards and "lumber", etc., in the following forms: unplaned, planed, finger-jointed, etc.

Paper and paper board (metric tons): The paper and paperboard category is an aggregate category. It represents the sum of graphic papers; newsprint; sanitary and household papers; packaging materials and other paper and paperboard. It excludes manufactured paper products such as boxes, cartons, books and magazines, etc.

Graphic papers: The paper and paperboard category is an aggregate category. It represents the sum of newsprint; uncoated mechanical; uncoated woodfree and coated papers. It excludes manufactured paper products such as books and magazines, etc.

Newsprint: Paper mainly used for printing newspapers. It is made largely from mechanical pulp and/or waste paper, with or without a small aount of filler.

Printing and writing paper: The printing and writing paper category is aggregate category. It represents the sum of uncoated mechanical; uncoated woodfree and coated papers.

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Reference publications

Databases

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