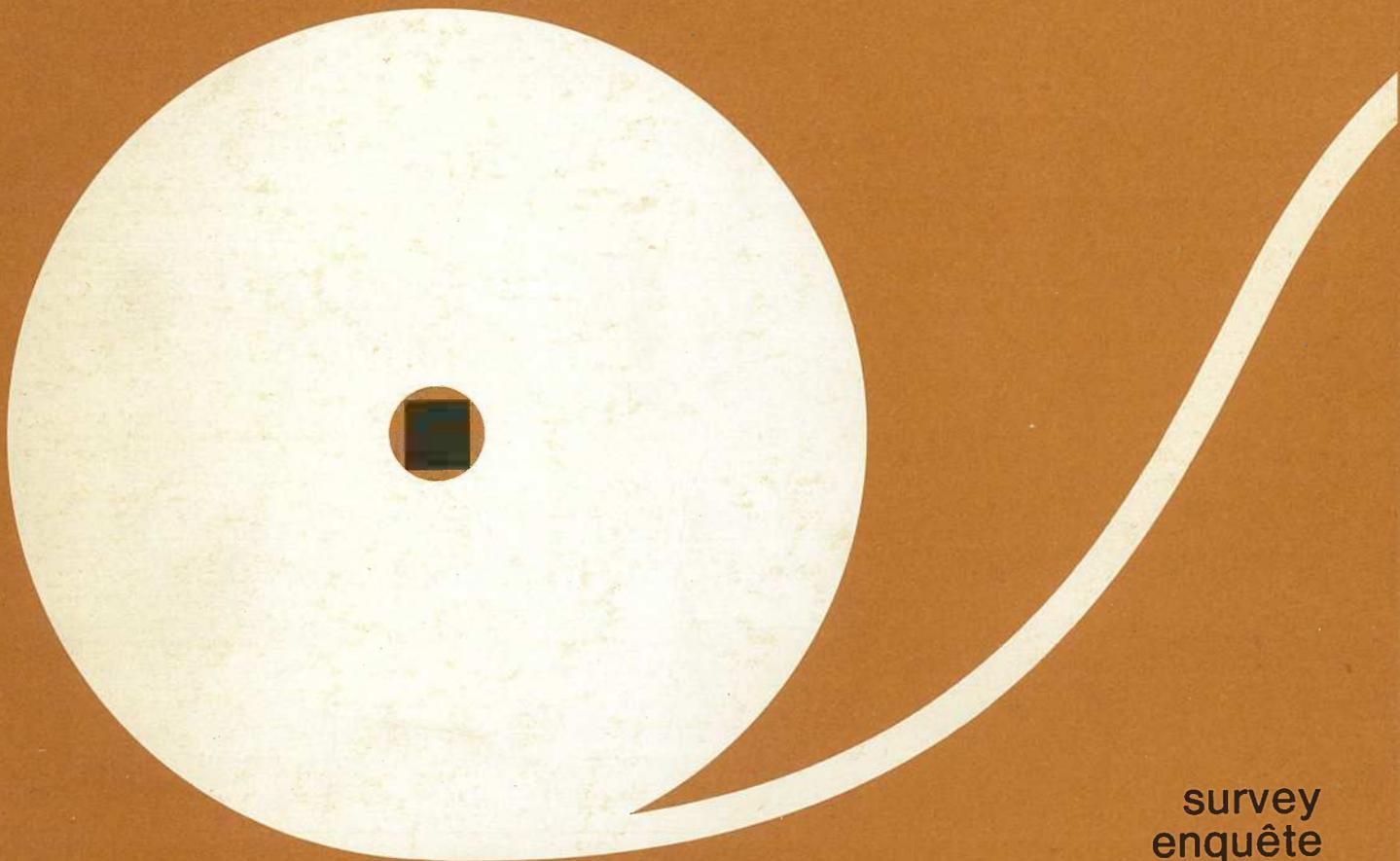


pulp and paper capacities  
capacités de la pâte et du papier  
capacidades de pasta y papel



survey  
enquête  
estudio

1979-1984

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS  
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ORGANIZACION DE LAS NACIONES UNIDAS PARA LA AGRICULTURA Y LA ALIMENTACION

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Report on the FAO Survey  
of  
World Pulp and Paper Capacities 1979-84

by the Secretariat

The annual FAO Surveys of World Pulp and Paper Capacities are based on figures received early in the year from correspondents in most countries of the world and on Secretariat estimates for the remaining countries. In most instances, the data are provided by national pulp and paper trade associations from information obtained from members on average about six months ago concerning their future development plans. The results accordingly reflect industries' intentions at the time of the surveys. Subsequent economic, financial and market conditions may in the meantime influence these significantly.

The coverage, content and presentation of the survey remains unchanged this year. However, two countries, Colombia and Thailand, are known to have improved the basis of their data as a result of special studies of the industry. An important revision has been made in the method used by Canada to assess the capacity to produce market pulp. As a result of a thorough study of the production and capacity of market pulp mills, the capacity of many mills was revised to reflect the maximum production attained during the past three years. This procedure resulted in a reduction of capacity for total market pulp of some six percent in 1979 and comparable reductions for other years. In Sweden also a new method for estimating both total and market pulp capacity has been used.

Once again a list of expansion plans has been prepared, thanks to the co-operation of many of the participants in the survey, and is published separately as "Projected Pulp and Paper Mills in the World, 1979-1989". Where appropriate, the expected additional capacity has been cross checked with the data given in the current survey, but the list is not exhaustive; significant additional capacity can result from machine improvements, confidential plans, etc., details of which are not available. It is hoped that the information of the industry's intentions at a particular moment of time will nevertheless prove useful.

The main findings of the pulp and paper capacity survey for 1979-84 are that:

- (a) additional pulp and paper capacity is once again on the upswing, after four years of relatively low expectations. The proposed increases in paper and board capacity are particularly buoyant;
- (b) world capacity of paper grades of pulp is expected to rise from 148.0 million tons in 1979 to 168.5 million tons in 1984. This increase of 20.5 million tons represents an annual growth of 2.6 per cent;
- (c) world capacity of paper and paperboard is expected to rise from 192.2 million tons in 1979 to 221.5 million tons in 1984. This increase of 29.3 million tons represents an annual growth of 2.9 per cent;
- (d) world woodpulp capacity in 1979 is slightly lower than was envisaged in last year's survey, due partly to the changed data basis. Likewise paper and paperboard capacity is lower, doubtless illustrating the uncertainty of market conditions;
- (e) thermo mechanical pulp capacity continues its rapid rate of expansion and by 1984 is expected to reach 8.5 million tons;
- (f) an increase in the volume of chemical pulp coming on stream is expected over the next five years, chiefly in Northern America and Western Europe. In Africa important new facilities will start up;
- (g) bleached hardwood sulphate pulp capacity is likely to register a gain of 2.7 million tons from 18.0 million tons in 1979 to 20.7 million tons in 1984, a smaller increase than envisaged in the last four surveys;
- (h) other fibre pulp will continue to play an important role in providing domestic raw materials for papermaking in developing countries, accounting for approximately one third of capacity. In Asia, the proportion exceeds 50 per cent;
- (i) developing countries should benefit from an increase of one third in their paper and board capacity, with nearly six million tons added to their existing total. A smaller quantity is expected to be installed in countries with centrally planned economies. Increases in capacity in the developed countries, although much larger (18.7 million tons) will mean an expansion of more than 12 per cent over the level of 1979;
- (j) after several years of modest growth, newsprint capacity will develop rapidly with nearly an additional seven million tons planned between 1979 and 1984;
- (k) the ratio of pulp to paper and paperboard capacity continues to decline.

Product and Regional Trends

According to the latest survey, world capacity of paper grades of pulp is expected to increase from 148.0 million tons in 1979 to 168.5 million tons in 1984, at the same time as paper and paperboard capacity expands from 192.2 to 221.5 million tons. The growth of capacity is illustrated in Table 1 below. Two points are worth noting. Whereas woodpulp capacity will have risen by about half over the fifteen years from 1969 to 1984 a much more rapid rate of progress is envisaged for other fibre pulp as well as for paper and paperboard. Over the next five years, the additional capacity of paper and board will exceed that of pulp by 9 million tons. Details of capacity by major products and regions for each of the years 1979-84 are contained in Annexes 1-6.

Table 1 - World Pulp, Paper and Paperboard Capacity, 1969-84

	Total Capacity				Annual Average Increase		
	1969	1974	1979	1984	1969-74	1974-79	1979-84
	-- million metric tons --				-- per cent --		
Total woodpulp, paper grades	101.0	123.8	137.0	155.1	4.3	2.0	2.5
Mechanical (a)	26.4	30.0	33.0	38.7	2.6	2.0	3.2
Semi-chemical (b)	8.2	10.1	10.5	11.7	4.2	0.9	2.2
Chemical	66.4	83.7	93.5	104.7	4.7	2.2	2.3
Other fibre pulp	7.3	7.9	11.0	13.4	1.6	6.7	4.0
Dissolving pulp	5.3	5.9	6.0	6.5	2.2	0.3	1.4
Total Paper and Paperboard	132.9	166.8	192.2	221.5	4.6	2.9	2.9
Newsprint	23.1	24.4	27.2	34.1	1.2	2.2	4.6
Printing and Writing	26.4	36.9	44.9	53.8	6.9	4.0	3.7
Other Paper and Paperboard	83.4	105.5	120.1	133.6	4.8	2.6	2.2

(a) including thermo mechanical pulp

(b) including chemi-groundwood

In earlier surveys attention has been drawn to the declining average rates of growth in future five year periods. This appears now to have been arrested both for woodpulp and for paper and board, with marginally higher rates for the period 1979-84. For example the anticipated rate of growth in woodpulp capacity which was 3.4 per cent in the 1975-80 survey and 3.1, 2.7, 2.4 in successive surveys has now moved upward slightly to 2.5 per cent. For paper and paperboard the uninterrupted decline from 3.3 to 2.7 per cent has been reversed and now stands at 2.9 per cent. On a year to year basis, however, the pattern is very similar, with the first three years of the survey showing the most rapid annual rate of increase, which then tails off as firm commitments give way to tentative plans. For details see the following table.

Table 2 - Annual Rate of Increases in World Pulp, Paper and Paperboard Capacity 1979-84

	Annual Increases				
	1979-80	1980-81	1981-82	1982-83	1983-84
	per cent				
Total woodpulp, paper grades	3.0	2.7	3.5	2.2	1.2
Mechanical (a)	4.1	3.7	4.9	2.7	0.8
Semi-chemical (b)	1.1	3.8	1.9	3.0	1.3
Chemical	2.8	2.2	3.1	2.0	1.3
Other fibre pulp	7.3	3.6	3.1	3.2	2.9
Dissolving pulp	0.8	2.0	1.5	1.7	1.0
Total paper and paperboard	3.1	3.6	3.5	2.4	1.8
Newsprint	4.4	6.0	5.7	3.9	3.0
Printing and writing	4.7	4.4	3.9	3.0	2.5
Other paper and board	2.3	2.7	2.7	1.8	1.3

- (a) including thermo mechanical pulp  
(b) including chemi-groundwood

Total Pulp for Papermaking

An increase of 20.5 million tons of papermaking pulp capacity is envisaged between 1979 and 1984. This is a modest amount by comparison to the last ten surveys, even if allowance is made for the changed basis of the U.S. figures to which reference was made last year. It is less than the 23.4 million tons actually installed between 1969 and 1974 but greater than the volume added between 1974 and 1979. Mechanical pulp will account for 5.7 million tons (including 4.6 million tons of thermo mechanical pulp), semi-chemical 1.2 million tons, chemical pulp 11.2 million tons and the remaining 2.4 million tons will be other fibre pulp. The increase in dissolving pulp capacity is small, amounting to only 0.5 million tons.

With regard to bleached hardwood sulphate pulps, where over three million tons of new capacity has been added between 1974 and 1979, one third of which was in Brazil, future plans indicate a large increase over the next five years but smaller in volume than in recent surveys. New projects utilising tropical hardwoods have yet to reach their full potential.

All but a small proportion of papermaking pulp capacity is located in developed countries. With the implementation of various plans in developing countries, not only has the volume of capacity risen but also the proportion of the world total located within these territories. It may reach 8.6 per cent in 1984 compared to 4.9 per cent ten years earlier.

Market Pulp

Attention has already been drawn to the changes made in the Canadian estimates of market pulp. These are of particular significance as Canada is the world's largest producer of market pulp, accounting for about one quarter of the world's total. The present survey indicates that market pulp capacity will expand by 2.5 million tons in the next three years with more coming from developed than from developing countries. The countries adding most in volume are Canada and Brazil. As paper and board expansions may be some nine million tons greater than is envisaged for pulp over the next five years, it is possible that pressure may be exerted on supplies of market pulp as well as on waste paper.

Woodpulp

The volume of additional woodpulp for papermaking in the world between 1979 and 1984 is expected to be 18.1 million tons, an amount considerably larger than was actually installed in the last five years. Hardly any countries reached the level of capacity for 1979 which they had anticipated in last year's survey. Sweden, for example, was about half a million tons below the target but this may in part have been due to the new method of assessing capacity. Compared to last year's survey, Japan, Brazil and the Federal Republic of Germany are now expected to instal less capacity in the next five years but this reduction is more than compensated for by the higher expectations in Northern America and Scandinavia. The size and location of new capacity is summarised in Table 3.

Table 3 - Increases in Capacity of Total Woodpulp for Papermaking  
1974-84

	Capacity			Total Increase		Annual Average Increase	
	1974	1979	1984	1974-79	1979-84	1974-79	1979-84
	'000 metric tons			tons		per cent	
World Total	123 796	137 049	155 127	13 253	18 078	2.1	2.5
Dev'ed Mkt. Economies	106 679	114 148	125 344	7 469	11 196	1.4	1.9
Northern America	62 996	68 012	74 936	5 016	6 924	1.5	2.0
Japan	11 083	12 377	13 519	1 294	1 142	2.2	1.8
Western Europe	30 051	30 850	33 599	799	2 749	0.5	1.7
Oceania	1 875	2 186	2 415	311	229	3.1	2.0
Others	674	723	875	49	152	1.4	3.9
Dev'ing Mkt Economies	4 159	6 517	10 003	2 358	3 486	9.4	9.0
Africa	288	377	889	89	512	5.5	18.7
Latin America	2 936	4 934	6 968	1 998	2 034	10.9	7.1
Asia	935	1 206	2 146	271	940	5.2	12.2
Cent. Planned Economies	12958	16 384	19 780	3 426	3 396	4.3	3.8
Asia	1 935	2 561	3 164	626	603	5.8	4.3
Eastern Europe	2 973	3 773	4 566	800	793	4.9	3.9
U.S.S.R.	8 050	10 050	12 050	2 000	2 000	4.5	3.7

Resulting from the capacity already installed since 1974, the mills currently under construction and those being planned, the developing countries will have all but doubled their share of the world's woodpulp capacity between 1974 and 1984 from 3.4 to 6.5 per cent. Latin America, Asia and Africa have participated in the growth, in that order in terms of the volume of capacity added. The corollary to this is the declining proportion in Northern America, Western Europe and Japan. Due mainly to the development of the pulp industry in the U.S.S.R. and to a lesser extent that in Czechoslovakia, the contribution of the countries with centrally planned economies to the world woodpulp capacity has increased.

### Mechanical Pulp

The rate of expansion of mechanical pulp capacity will accelerate in the next five years to 3.2 per cent compared to 2.0 per cent actually achieved between 1974 and 1979. This includes the anticipated development of thermo mechanical pulp and probably mainly reflects the rapid expansion envisaged in newsprint capacity, to which reference will be made later. On a regional basis, growth is greatest in Northern America, accounting for over half the world total from 1979-84, followed by Western Europe and then a long way behind by Japan and Latin America. For summary details refer to Table 4 below.

Table 4 - Increases in Capacity of Mechanical Woodpulp \*  
for Papermaking, 1974-84

	Capacity			Total Increase		Annual Average Increase	
	1974	1979	1984	1974-79	1979-84	1974-79	1979-84
	'000 metric tons			-		per cent	
World Total	29 982	33 027	38 713	3 045	5 686	2.0	3.2
Dev'ed Mkt. Economies	25 485	27 888	32 567	2 403	4 679	1.8	3.2
Northern America	13 046	13 700	16 295	654	2 595	1.0	3.5
Japan	1 669	2 335	2 697	666	362	7.0	2.9
Western Europe	9 939	10 723	12 138	784	1 415	1.5	2.5
Oceania	588	869	1 046	281	177	8.1	3.8
Others	243	261	391	18	130	1.5	8.4
Dev'ing Mkt. Economies	785	990	1 499	205	509	4.8	8.7
Africa	18	27	37	9	10	8.4	6.5
Latin America	450	515	815	65	300	2.7	9.6
Asia	317	448	647	131	199	7.2	7.6
Cent. Planned Economies	3 712	4 149	4 647	437	498	2.2	2.3
Asia	845	942	1 171	97	229	2.2	4.4
Eastern Europe	867	957	976	90	19	2.0	0.4
U.S.S.R.	2 000	2 250	2 500	250	250	2.4	2.1

\* including thermo mechanical pulp

Data for thermo mechanical pulp have once again been collected and are summarised in Table 5 below. Figures for 1978 are also included as it is believed they will be of interest in tracing the development of capacity for this grade of pulp. It should be noted that not all countries have been able to provide details but it is believed that the unreported tonnage is relatively small. Over half the total world increase between 1979 and 1984 will be in Northern America, with Scandinavia, Japan and South America also contributing significant amounts. In the United States, since the emergence of the first TMP mill in 1975, capacity growth has been rapid and at an accelerating pace. Between 1979 and 1982 the increase is expected to be 35 per cent which is in marked contrast to the virtual absence of growth for stone groundwood and other mechanical pulps. In Latin America, much more TMP capacity than traditional mechanical pulp capacity is being installed. More detailed statistics are available in the country data.

Table 5 - Increases in Capacity of Thermo Mechanical Pulp  
1978-84

	<u>Capacity</u>			<u>Increase</u>
	1978	1979	1984	1979-84
	----- '000 metric tons -----			
World Total	3 237	3 872	8 462	4 590
Dev'ed Mkt. Economies	3 237	3 837	7 940	4 103
Northern America	1 188	1 508	4 010	2 502
Japan	621	807	1 168	361
Scandinavia	1 276	1 285	2 270	985
Other Western Europe	112	113	189	76
Oceania	40	124	303	179
Dev'ing Mkt. Economies	-	35	369	334
South America	-	-	249	249
Asia	-	35	120	90
Cent. Planned Economies	-	-	153	153
U.S.S.R.	-	-	140	140
Eastern Europe	-	-	13	13

Semi-Chemical Pulp

Between 1979 and 1984, the world capacity of semi-chemical and chemi groundwood pulp will expand from 10.5 to 11.7 million tons, or by 1.2 million tons at an annual rate of 2.2 per cent. Although this represents a more rapid increase than in the previous five year period, it is partly due to the reductions in capacity which took place in Japan and Western Europe during those years.

Table 6 - Increases in Capacity of Semi-chemical Woodpulp for Papermaking, 1974-84

	Capacity			Total Increase		Annual Average Increase	
	1974	1979	1984	1974-79	1979-84	1974-79	1979-84
	'000 metric tons					per cent	
World Total	10 082	10 523	11 743	441	1 220	0.9	2.2
Dev'ed Mkt. Economies	9 131	8 914	9 518	- 217	604	-0.5	1.3
Northern America	4 279	4 647	5 110	368	463	1.7	1.9
Japan	2 318	1 919	1 949	- 399	30	-3.8	0.3
Western Europe	2 044	1 793	1 892	- 251	99	-2.6	1.1
Oceania	329	393	405	64	12	3.6	0.6
Others	161	162	162	1	-	0.1	-
Dev'ing Mkt Economies	373	592	900	219	308	9.7	8.7
Africa	5	10	66	5	56	14.9	46.0
Latin America	305	488	617	183	129	9.9	4.8
Asia	63	94	217	31	123	8.3	18.2
Cent. Planned Economies	578	1 017	1 325	439	308	12.0	5.4
Asia	-	-	-	-	-	-	-
Eastern Europe	188	417	475	229	58	17.3	2.6
U.S.S.R.	390	600	850	210	250	9.0	7.2

Chemical Woodpulp for Papermaking

The proportion of chemical woodpulp to total papermaking pulp remains constant at just below two thirds, even after account has been taken of the accelerating rate of expansion anticipated over the next five years. More than 11 million additional tons are likely to be installed during this period, most of which will be located in Northern America. However, the forthcoming start up of major facilities in Cameroon and Nigeria will mean that Africa becomes a significant producer of chemical woodpulp.

The decline in sulphite pulp capacity continues. In the United States, for example, capacity in 1979 was one million below the level of 1959. In Scandinavia, too, there have been reductions and further ones are planned as sulphite pulp mills are closed or converted to other processes. Reference to "Information on Projected Pulp and Paper Mills in the World, 1979-89" will provide details of some closures as well as new installations which are being planned in a few countries.

Table 7 - Increases in Capacity of Chemical Woodpulp  
for Papermaking, 1974-84

	Capacity			Total Increase		Annual Average Increase	
	1974	1979	1984	1974-79	1979-84	1974-79	1979-84
	'000 metric tons			tons		per cent	
World Total	83 732	93 499	104 671	9 767	11 172	2.2	2.3
Dev'ed Mkt. Economies	72 063	77 346	83 259	5 283	5 913	1.4	1.5
Northern America	45 671	49 665	53 531	3 994	3 866	1.7	1.5
Japan	7 096	8 123	8 873	1 027	750	2.7	1.8
Western Europe	18 068	18 334	19 569	266	1 235	0.3	1.3
Oceania	958	924	964	- 34	40	-0.7	0.9
Others	270	300	322	30	22	2.1	1.4
Dev'ing Mkt. Economies	3 001	4 935	7 604	1 934	2 669	10.5	9.0
Africa	265	340	786	75	446	5.1	18.2
Latin America	2 181	3 931	5 536	1 750	1 605	12.5	7.1
Asia	555	664	1 282	109	618	3.7	14.1
Cent. Planned Economies	8 668	11 218	13 808	2 550	2 590	5.3	4.2
Asia	1 090	1 619	1 993	529	374	8.2	4.2
Eastern Europe	1 918	2 399	3 115	481	716	4.6	5.4
U.S.S.R.	5 660	7 200	8 700	1 540	1 500	4.9	3.9

Other Fibre Pulp

It is anticipated that between 1979 and 1984 the capacity of other fibre pulp for papermaking, excluding waste paper, will increase from 11.0 to 13.4 million tons at an annual average rate of 4.0 per cent.

Table 8 - Increases in Capacity of Other Fibre Pulp  
for Papermaking, 1974-84

	Capacity			Total Increase		Annual Average Increase	
	1974	1979	1984	1974-79	1979-84	1974-79	1979-84
	'000 metric tons			tons		per cent	
World Total	7 939	11 005	13 411	3 066	2 406	6.8	4.0
Dev'ed Mkt. Economies	1 969	1 753	1 836	- 216	83	- 2.3	0.9
Northern America	741	715	801	- 26	86	- 0.7	2.3
Japan	4	4	4	-	-	-	-
Western Europe	1 161	917	914	- 244	- 3	- 4.6	- 0.1
Oceania	6	7	7	1	-	3.1	-
Others	57	110	110	53	-	14.1	-
Dev'ing Mkt. Economies	2 303	3 176	4 532	873	1 356	6.6	7.4
Africa	175	191	238	16	47	1.8	4.7
Latin America	940	1 220	1 885	280	665	5.4	9.1
Asia	1 163	1 765	2 409	577	644	8.2	6.4
Cent. Planned Economies	3 667	6 076	7 043	2 409	967	10.6	3.0
Asia	3 036	5 318	6 133	2 282	820	11.9	2.9
Eastern Europe	231	258	280	27	22	2.2	1.7
U.S.S.R.	400	500	625	100	125	4.6	4.6

Other fibre pulp is of little significance in the developed countries, accounting for about 0.5 per cent of total papermaking capacity and an even smaller proportion of fibre requirements if waste paper is taken into account. The reverse is true in developing countries where for example in Asian countries with centrally planned economies it reaches as high as two thirds. Depending on the part of the world, the principal fibres currently used are bamboo and bagasse, but other fibres have been successfully utilised albeit on a smaller scale. The importance of other fibre pulp in developing countries is illustrated in Annex 11.

#### Dissolving Pulp

The capacity of dissolving pulp has remained almost stationary at six million tons during the last five years. Only very modest growth adding another 0.5 million tons is expected over the next five years.

#### Paper and Paperboard

If all plans materialise more than 29 million tons of paper and paperboard will be added to world capacity by 1984 bringing the total to 222 million tons. This is the largest increase registered since the 1975-80 survey. Of particular interest are the greater expectations in the field of paper and board as compared to pulp, a difference of nearly nine million tons growth over the five year period. Such a large "gap" has not been predicted in any of the last ten surveys, as can be seen from Annex 9. The satisfaction of this additional fibre requirement will presumably have to come from waste paper which would involve the collection of roughly an extra two million tons a year.

Almost two thirds of the additional capacity will be located in developed countries, where three quarters of world capacity already exists. In developing countries, however, the expansion is not only more rapid but the capacity could double between 1974 and 1984 to reach 21 million tons. In that event, 9.5 per cent of world paper and paperboard capacity will be located in the developing countries with market economies. By the same date, countries with

Table 9 - Increases in Capacity of Total Paper and Paperboard  
1974-84

	Capacity			Total Increase		Annual Average Increase	
	1974	1979	1984	1974-79	1979-84	1974-79	1979-84
	'000 metric tons					per cent	
	-----			-----		-----	
World Total	166 793	192 174	221 532	25 381	29 358	2.9	2.9
Dev'ed Mkt. Economies	137 121	150 701	169 440	13 580	18 739	1.9	2.4
Northern America	70 148	75 340	83 595	5 192	8 255	1.5	2.1
Japan	18 612	21 453	24 996	2 841	3 543	2.9	3.1
Western Europe	45 412	50 353	56 531	4 941	6 178	2.1	2.3
Oceania	1 942	2 300	2 703	358	403	3.4	3.3
Others	1 007	1 255	1 615	248	360	4.5	5.2
Dev'ing Mkt. Economies	10 285	15 025	20 956	4 740	5 931	7.9	6.9
Africa	598	720	1 193	122	473	3.8	10.6
Latin America	6 326	8 601	11 615	2 275	3 014	6.3	6.2
Asia	3 361	5 704	8 148	2 343	2 444	11.2	7.4
Cent. Planned Economies	19 387	26 448	31 136	7 061	4 688	6.4	3.3
Asia	5 619	8 955	10 285	3 336	1 330	9.8	2.8
Eastern Europe	4 768	5 993	6 851	1 225	858	4.7	2.7
U.S.S.R.	9 000	11 500	14 000	2 500	2 500	5.0	4.0

centrally planned economies will account for 14 per cent of the world total paper and board capacity.

An examination of individual country figures in the last two surveys will reveal that greater expansion is now contemplated in Northern America whereas smaller additions are planned in Japan and Sweden. Rationalisation continues within the EEC industry.

### Newsprint

Newsprint capacity is once again on a rapid upswing, with nearly seven million tons more planned between 1979 and 1984, equivalent to a 25 per cent increase. Most of the additional tonnage will be in Canada and U.S.A. but the expansion in Finland and Latin America is also significant. Within the next few years a major installation should start up in Nigeria which, together with other projects in Asia and Latin America, should help satisfy the local demand for newsprint in the developing countries. Intended increases of capacity in the countries with centrally planned economies approximate the amount actually installed between 1974 and 1979.

Table 10 - Increases in Capacity of Newsprint, 1974-84

	Capacity			Total Increase		Annual Average Increase	
	1974	1979	1984	1974-79	1979-84	1974-79	1979-84
	'000 metric tons					per cent	
World Total	24 469	27 215	34 067	2 746	6 852	2.2	4.6
Dev'ed Mkt. Economies	21 107	22 725	28 067	1 618	5 342	1.5	4.3
Northern America	12 326	12 748	15 295	422	2 547	0.7	3.7
Japan	2 299	2 707	3 644	408	937	3.3	6.1
Western Europe	5 862	6 491	7 952	629	1 461	2.1	4.1
Oceania	413	543	725	130	182	5.6	6.0
Others	207	236	451	29	215	2.7	13.8
Dev'ing Mkt. Economies	735	1 372	2 420	637	1 048	13.3	12.0
Africa	13	24	104	11	80	13.0	34.0
Latin America	295	707	1 330	412	623	19.1	13.5
Asia	427	641	986	214	345	8.5	9.0
Cent. Planned Economies	2627	3 118	3 580	491	462	3.5	2.8
Asia	820	950	1 152	130	202	3.0	3.9
Eastern Europe	357	468	478	111	10	5.6	0.4
U.S.S.R.	1 450	1 700	1 950	250	250	3.2	2.8

### Other Printing and Writing Paper

The future growth of printing and writing papers is also on the upswing by volume. Much of the increase will occur in the United States, where coated groundwood papers will expand at an unprecedented eight per cent a year up to 1982, in Western Europe, where in Finland, for example, greater emphasis is being placed on these grades, and in the developing countries of Africa, Latin America and Asia. In the event that all plans materialise, the developing market economy countries will have nearly ten per cent of world printing and writing paper capacity by 1984 compared to 6.7 per cent ten years earlier, which should to a degree reduce their dependence on imported supplies of these qualities.

Table 11 - Increases in Capacity of Other Printing and Writing Paper, 1974-84

	Capacity			Total Increase		Annual Average Increase	
	1974	1979	1984	1974-79	1979-84	1974-79	1979-84
	'000 metric tons			tons		per cent	
World Total	36 859	44 848	53 807	7 989	8 959	4.0	3.7
Dev'ed Mkt. Economies	31 015	36 222	42 649	5 207	6 427	3.2	3.3
Northern America	13 726	15 662	17 953	1 936	2 291	2.7	2.8
Japan	3 080	4 405	5 911	1 325	1 506	7.4	6.1
Western Europe	13 777	15 665	18 244	1 888	2 579	2.6	3.1
Oceania	261	274	303	13	29	1.0	2.0
Others	171	216	238	45	22	4.8	2.0
Dev'ing Mkt. Economies	2 500	3 626	5 231	1 126	1 605	7.7	7.6
Africa	173	228	376	55	148	5.7	10.5
Latin America	1 250	1 688	2 309	438	621	6.2	6.5
Asia	1 077	1 710	2 546	633	836	9.7	8.3
Cent. Planned Economies	3 344	5 000	5 927	1 656	927	8.4	3.5
Asia	1 279	2 417	2 790	1 138	373	13.6	2.9
Eastern Europe	865	1 133	1 437	268	304	5.5	4.9
U.S.S.R.	1 200	1 450	1 700	250	250	3.9	3.2

Ratio of Paper Pulp to Paper and Paperboard Capacity

For nearly 15 years the proportion of pulp manufacturing capacity to paper and paperboard capacity has been moving steadily downwards, reflecting, no doubt, the greater utilisation of waste paper in the manufacture of paper and board. The findings of the current survey indicate an even greater divergence between the growth of pulp and paper, possibly due in part to the amended basis of calculating pulp capacity in Sweden, with the obvious resultant decline in the pulp/paper ratio. The following table presents the relevant figures.

	<u>Pulp/Paper Ratio</u>
	<u>per cent</u>
1965	81.8
1970	80.5
1975	77.8
1979 (a)	77.1
1980 (a)	77.2
1981 (a)	76.6
1982 (a)	76.6
1983 (a)	76.5
1984 (a)	76.1

(a) as forecast in 1979-84 survey

Comparison with earlier surveys

The pattern of ever diminishing future growth of both pulp and paper capacity noted in the last four surveys has at last been definitely halted. The comparison with earlier surveys is illustrated in the following table and in Annex 9, where details for 1969-74 have also been included to show the most recent occasion where the magnitude of the divergence between additional pulp and paper capacity was of considerable proportions.

<u>Period of Survey</u>	<u>Total Increase over period</u>	
	<u>Total Pulp for paper- making</u>	<u>Total paper and paperboard</u>
	-- million metric tons --	
1969-74	26.1	37.5
1974-79 (a)	26.7	33.3
1975-80	25.4	31.1
1976-81	23.3	28.1
1977-82	21.0	27.4
1978-83 (b)	19.2	26.6
1979-84 (b)	20.5	29.4

(a) after amendment by nine countries, i.e. Canada, U.S.A., Brazil, Finland, France, Federal Republic of Germany, Sweden, U.K. and Japan;

(b) not comparable with surveys prior to 1978-83.

For the main grades of pulp, paper and paperboard, the overall additional capacity foreseen for the periods covered by the last four surveys is shown below. There is a break in the comparability of the data between the 1977-82 and 1978-83 surveys for the reasons which are elaborated on page 1 of last year's report.

	<u>Survey 1976-81</u>	<u>Survey 1977-82</u>	<u>Survey 1978-83</u>	<u>Survey 1979-84</u>
	'000 metric tons			
Total woodpulp	21 134	19 147	17 066	18 078
of which				
Mechanical (a)	4 348	4 097	4 819	5 686
Semi-chemical (b)	1 477	1 288	1 135	1 220
Chemical	15 309	13 762	11 112	11 172
Other fibre pulp	2 147	1 820	2 118	2 406
Total paper and paperboard	28 077	27 363	26 590	29 358
of which				
Newsprint	4 655	4 624	5 552	6 852
Printing and Writing	6 911	6 716	6 751	8 959
Other paper and paperboard	16 511	16 023	14 287	13 547
- wrapping and packaging	13 161	12 435	10 820	10 785

(a) including thermo mechanical pulp

(b) including chemi-groundwood

Annex 10 illustrates on a product and on a regional basis the amount of capacity actually installed between 1974 and 1979 and the additions planned in the succeeding five years. The increasing importance of chemical pulp is evident in both the developed and developing market economy countries as well as the dependence on other fibre pulp in the centrally planned economies. With regard to paper and board, the rapid rise in future newsprint capacity in both developed and developing countries is not matched in centrally planned countries. Printing and writing papers are also an important feature of the industry's expansion in developing countries.

Enquête de la FAO sur la capacité mondiale de production de pâte et de papier

1979 - 1984

L'enquête annuelle de la FAO sur la capacité mondiale de production de pâte et de papier est fondée, pour la plupart des pays, sur les chiffres communiqués au début de l'année par les correspondants et, pour les autres, sur des estimations du Secrétariat. En général, les données sont fournies par les associations nationales des industries de la pâte et du papier à partir des indications que les membres de ces associations ont données au cours des six mois précédents au sujet de leur plan de développement. En conséquence, elles représentent les intentions de l'industrie au moment où l'enquête a lieu; la conjoncture économique, financière et commerciale peut entraîner par la suite des modifications importantes.

Le champ, la teneur et la présentation de l'enquête restent les mêmes cette année. Toutefois, deux pays - la Colombie et la Thaïlande - ont effectué des études spéciales de l'industrie et ont ainsi pu améliorer la base de leurs données. Le Canada a profondément revu ses méthodes d'évaluation de la capacité de production de pâte marchande. À la suite d'une étude approfondie de la production et de la capacité des usines de pâte marchande, la capacité de nombreuses d'entre elles a été revue pour incorporer les chiffres de production maximale obtenus au cours des trois dernières années. Les chiffres font donc apparaître une diminution de la capacité de pâte marchande totale de quelque 6 pour cent en 1979 et des baisses comparables pour d'autres années. La Suède a également utilisé une nouvelle méthode d'estimation tant pour la capacité totale que pour celle de la pâte marchande.

De nouveau une liste des plans d'expansions a été établie grâce à la coopération d'un grand nombre de participants à l'enquête et est publiée séparément sous le titre "Projected Pulp and Paper Mills in the World, 1979-1989". Le cas échéant, la capacité supplémentaire prévue a été confrontée avec les données indiquées dans l'enquête actuelle, mais la liste n'est pas exhaustive. Une augmentation importante de capacité peut résulter d'améliorations mécaniques, de projets confidentiels, etc. dont on ne connaît pas le détail. Néanmoins, on espère que les renseignements concernant les intentions de l'industrie à un moment donné se révéleront utiles.

Les principales conclusions de l'enquête de 1979-84 sont les suivantes:

- (a) La capacité supplémentaire de production de pâte et de papier est à nouveau en augmentation après quatre ans de perspectives assez peu brillantes. Pour la capacité de production de papier et de cartons l'augmentation proposée est particulièrement forte.
- (b) La capacité mondiale de production des pâtes pour papier devrait passer de 148 millions de tonnes en 1979 à 168,5 millions de tonnes en 1984. Cet accroissement de 20,5 millions de tonnes représente une croissance annuelle de 2,6 pour cent.
- (c) La capacité mondiale de production de papier et de carton devrait passer de 192,2 millions de tonnes en 1979 à 221,5 millions de tonnes en 1984, ce qui correspond à un taux annuel de croissance de 2,9 pour cent.
- (d) La capacité mondiale de pâte de bois en 1979 est légèrement supérieure au niveau envisagé dans l'enquête de l'année dernière en raison partiellement du changement de la base de données. La capacité de production de papiers et de cartons est également inférieure, ce qui, sans aucun doute, reflète l'incertitude du marché.
- (e) La capacité de pâte thermo-mécanique poursuit sa rapide expansion et devrait atteindre 8,5 millions de tonnes en 1984.
- (f) Pour la pâte chimique, on s'attend à un accroissement du volume dans les cinq prochaines années, principalement en Amérique du Nord et en Europe occidentale. En Afrique, d'importantes nouvelles usines entreront en production.
- (g) La capacité de production de pâte de feuillus au sulfate blanchie devrait passer de 18 millions de tonnes en 1979 à 20,7 millions de tonnes en 1984, soit un accroissement de 2,7 millions de tonnes qui reste inférieur au niveau envisagé dans les quatre dernières enquêtes.
- (h) Les pâtes d'autres fibres continueront à jouer un rôle important dans l'approvisionnement en matières premières locales pour la fabrication de papier dans les pays en développement où elles représentent environ le tiers de la capacité de production et en Asie plus de 50 pour cent.
- (i) Dans les pays en développement, on prévoit un accroissement d'environ un tiers (soit près de 6 millions de tonnes) de la capacité de production de papiers et cartons. On s'attend à l'installation d'une capacité inférieure dans les pays à économie centralement planifiée. Dans les pays développés, l'accroissement de la capacité, bien que beaucoup plus important (18,7 millions de tonnes) ne représentera qu'une progression d'environ 12 pour cent par rapport au niveau de 1979.
- (j) Après plusieurs années d'une progression assez lente, la capacité de production de papier journal s'accroîtra rapidement puisque l'on prévoit près de 7 millions de tonnes supplémentaires entre 1979 et 1984.
- (k) Le rapport entre la capacité de production de pâte et celle de papier et cartons continue à fléchir.

Tendances par produit et par région

Selon la dernière enquête, la capacité mondiale de production de pâtes à papier devrait passer de 148 millions de tonnes à 168,5 millions de tonnes en 1984, tandis que la capacité de production de papiers et cartons passerait de 192,2 à 221,5 millions de tonnes. Le tableau 1 ci-après indique l'évolution de la capacité mondiale par grande catégorie de produit. Deux points sont à noter: tandis que la capacité de pâte de bois aura augmenté d'environ 50 pour cent au cours des 15 dernières années, de 1969 à 1984, on s'attend à un taux de croissance beaucoup plus rapide pour les autres pâtes de fibres ainsi que pour les papiers et cartons. Au cours des cinq prochaines années, la capacité supplémentaire de production de papiers et cartons dépassera celle de la pâte de 9 millions de tonnes. On trouvera aux Annexes 1 à 6 une ventilation par région et par grande catégorie de produits pour chacune des années de la période 1979-84.

Tableau 1 - Capacité mondiale de production de pâte, de papier et de carton, 1969-84

	Capacité totale				Taux annuel moyen d'accroissement		
	1969	1974	1979	1984	1969-74	1974-79	1979-84
	- - millions de tonnes - - -				- - - - pourcentage - - - -		
Pâte de bois pour papier, total	101,0	123,8	137,0	155,1	4,3	2,0	2,5
Mécanique (a)	26,4	30,0	33,0	38,7	2,6	2,0	3,2
Mi-chimique (b)	8,2	10,1	10,5	11,7	4,2	0,9	2,2
Chimique	66,4	83,7	93,5	104,7	4,7	2,2	2,3
Pâte d'autres fibres	7,3	7,9	11,0	13,4	1,6	6,7	4,0
Pâte à dissoudre	5,3	5,9	6,0	6,5	2,2	0,3	1,4
Papier et carton, total	132,9	166,8	192,2	221,5	4,6	2,9	2,9
Papier journal	23,1	24,4	27,2	34,1	1,2	2,2	4,6
Papier d'impression et d'écriture	26,4	36,9	44,9	53,8	6,9	4,0	3,7
Autres papiers et cartons	83,4	105,5	120,1	133,6	4,8	2,6	2,2

- (a) Y compris la pâte thermo-mécanique  
 (b) Y compris la pâte mécanico-chimique

Les enquêtes précédentes avaient appelé l'attention sur la baisse des taux moyens de croissance au cours des cinq années à venir. Cette tendance semble avoir connu un temps d'arrêt aussi bien pour la pâte de bois que pour les papiers et cartons, les taux pour la période 1979-84 étant légèrement supérieurs. Ainsi, le taux de croissance de la capacité de pâte de bois qui était de 3,4 pour cent dans l'enquête 1975-80 et de 3,1, 2,7, 2,4 dans les enquêtes ultérieures a maintenant légèrement augmenté pour atteindre 2,5 pour cent. En ce qui concerne les papiers et les cartons la tendance continue à la baisse qui avait porté la capacité de 3,3 à 2,7 pour cent s'est renversée et le coefficient actuel est de 2,9 pour cent. Pourtant, si l'on compare les chiffres d'une année sur l'autre, la situation est très analogue, les trois premières années de l'enquête faisant apparaître le taux annuel d'accroissement le plus rapide, accroissement qui s'atténue à mesure que les engagements fermes font place à des plans provisoires, ce qu'illustre le tableau 2.

Tableau 2 - Taux annuel d'accroissement de la capacité mondiale de production de pâte, de papier et de carton 1979-84

	Accroissements annuels				
	1979-80	1980-81	1981-82	1982-83	1983-84
	pourcentage				
Pâte de bois pour papier, total	3,0	2,7	3,5	2,2	1,2
Mécanique (a)	4,1	3,7	4,9	2,7	0,8
Mi-chimique (b)	1,1	3,8	1,9	3,0	1,3
Chimique	2,8	2,2	3,1	2,0	1,3
Pâte d'autres fibres	7,3	3,6	3,1	3,2	2,9
Pâte à dissoudre	0,8	2,0	1,5	1,7	1,0
Papier et carton, total	3,1	3,6	3,5	2,4	1,8
Papier journal	4,4	6,0	5,7	3,9	3,0
Papier d'impression et d'écriture	4,7	4,4	3,9	3,0	2,5
Autres papiers et cartons	2,3	2,7	2,7	1,8	1,3

(a) Y compris la pâte thermo-mécanique

(b) Y compris la pâte chimico-mécanique

#### Pâtes à papier, total

Entre 1979 et 1984, la capacité de pâtes à papier devrait augmenter de 20,5 millions de tonnes, ce qui représente une augmentation très modeste si on la compare aux dix dernières enquêtes, même si l'on tient compte de la modification de la définition qui a eu lieu aux Etats-Unis depuis l'année dernière. Ce chiffre est inférieur aux 23,4 millions de tonnes effectivement installées entre 1969 et 1974, mais supérieur au volume ajouté entre 1974 et 1979. La pâte mécanique représentera 5,7 millions de tonnes de la capacité totale (y compris 4,6 millions de tonnes de pâte thermo-mécanique), la pâte semi-mécanique 1,2 million de tonnes, la pâte chimique 11,2 millions de tonnes et les pâtes d'autres fibres 2,4 millions de tonnes. L'augmentation de la capacité de pâte à dissoudre est faible (0,5 million de tonnes seulement).

En ce qui concerne les pâtes de feuillus au sulfate blanchies pour lesquelles une nouvelle capacité de plus de 3 millions de tonnes a été ajoutée entre 1974 et 1979 (dont un tiers au Brésil), les plans futurs prévoient une forte augmentation au cours des cinq prochaines années mais plus faible en volume que dans les enquêtes récentes. De nouvelles usines utilisant les feuillus tropicaux n'ont pas encore atteint leur capacité maximale.

Pratiquement toute la capacité de pâte à papiers est située dans les pays développés. Avec la mise en oeuvre de différents plans dans les pays en développement, non seulement le volume de la capacité a augmenté, mais également la proportion du total mondial situé dans ces territoires. Elle pourrait atteindre 8,6 pour cent en 1984 contre 4,9 pour cent il y a dix ans.

Pâte marchande

On a déjà appelé l'attention sur les modifications intervenues dans les estimations canadiennes de la capacité de pâte marchande. Elles prennent une importance particulière puisque le Canada, avec environ 25 pour cent du total mondial, est le plus grand producteur mondial de pâte marchande. Selon l'enquête actuelle, la capacité de pâte marchande augmentera de 2,5 millions de tonnes au cours des trois prochaines années, l'augmentation étant plus marquée dans les pays développés que dans les pays en développement. Ce sont le Canada et le Brésil qui fourniront la plus grande partie de ce tonnage supplémentaire. L'expansion des capacités de production de papiers et de cartons pourrait être de quelque 9 millions supérieure aux niveaux envisagés pour la pâte au cours des cinq prochaines années; aussi est-il possible qu'une pression s'exerce sur les approvisionnements de pâte marchande ainsi que sur les vieux papiers.

Pâte de bois

La capacité mondiale de fabrication de pâte de bois pour papier devrait augmenter entre 1979 et 1984 de 18,1 millions de tonnes, volume beaucoup plus important que celui installé au cours des cinq dernières années. Pratiquement aucun pays n'a atteint le niveau de capacité qui avait été fixé dans l'enquête de l'année dernière pour 1979. Ainsi, en Suède, la capacité est restée inférieure d'un demi-million de tonnes à l'objectif fixé mais ceci peut être dû en partie à la nouvelle méthode d'évaluation. La capacité que le Japon, le Brésil et la République fédérale d'Allemagne prévoient d'installer au cours des cinq prochaines années est inférieure au niveau envisagé dans l'enquête de l'année dernière, mais cette réduction est plus que compensée par l'augmentation du volume attendue en Amérique du Nord et en Scandinavie. On trouvera au tableau 3 le volume et la répartition de cette nouvelle capacité.

Tableau 3 - Accroissement de la capacité de production totale de pâte de bois pour papier, 1974-84

	Capacité			Augmentation totale		Augmentation annuelle moyenne	
	1974	1979	1984	1974-79	1979-84	1974-79	1979-84
	milliers			de tonnes		pourcentage	
Total mondial	123 796	137 049	155 127	13 253	18 078	2,1	2,5
Pays dev. à écon. marché	106 679	114 148	125 344	7 469	11 196	1,4	1,9
Amérique du Nord	62 996	68 012	74 936	5 016	6 924	1,5	2,0
Japon	11 083	12 377	13 519	1 294	1 142	2,2	1,8
Europe occidentale	30 051	30 850	33 599	799	2 749	0,5	1,7
Océanie	1 875	2 186	2 415	311	229	3,1	2,0
Autres	674	723	875	49	152	1,4	3,9
Pays en dev. à écon. marché	4 159	6 517	10 003	2 358	3 486	9,4	9,0
Afrique	288	377	889	89	512	5,5	18,7
Amérique latine	2 936	4 934	6 968	1 998	2 034	10,9	7,1
Asie	935	1 206	2 146	271	940	5,2	12,2
Pays à écon. centr. planif.	12 958	16 384	19 780	3 426	3 396	4,8	3,8
Asie	1 935	2 561	3 164	626	603	5,8	4,3
Europe orientale	2 973	3 773	4 566	800	793	4,9	3,9
U.R.S.S.	8 050	10 050	12 050	2 000	2 000	4,5	3,7

Avec la capacité déjà installée depuis 1974, les usines actuellement en construction et celles qui sont prévues, les pays en développement auront presque doublé leur part de la capacité mondiale de pâte de bois qui passerait de 3,4 à 6,5 pour cent entre 1974 et 1984. C'est Amérique latine, puis l'Asie et enfin l'Afrique qui ont le plus contribué à cette croissance en termes de volume de capacité supplémentaire. Le corollaire est la diminution de la part de l'Amérique du Nord, de l'Europe occidentale et du Japon. La contribution des pays à économie centralement planifiée à la capacité mondiale de pâte de bois a augmenté en raison principalement du développement de l'industrie de la pâte en URSS et, dans une moindre mesure, en Tchécoslovaquie.

#### Pâte mécanique

Le taux d'expansion de la capacité de pâte mécanique augmentera au cours des cinq prochaines années pour passer à 3,2 pour cent contre 2 pour cent effectivement enregistré en 1974 et 1979. Ce chiffre tient compte du développement prévu de la capacité de production de pâte thermo-mécanique et reflète probablement surtout l'expansion rapide envisagée dans la capacité de production de papier journal laquelle on se réfère plus loin. Sur le plan régional, la croissance sera la plus importante en Amérique du Nord, qui compte pour plus de la moitié du total mondial de 1979 à 1984, suivie par l'Europe occidentale et, de très loin, par le Japon et l'Amérique latine.

Tableau 4 - Accroissement de la capacité de production de pâte mécanique (\*) pour papier, 1974-84

	Capacité			Augmentation totale		Augmentation annuelle moyenne	
	1974	1979	1984	1974-79	1979-84	1974-79	1979-84
	milliers			de tonnes		pourcentage	
Total mondial	29 982	33 027	38 713	3 045	5 686	2,0	3,2
Pays dév. à écon. marché	25 485	27 888	32 567	2 403	4 679	1,8	3,2
Amérique du Nord	13 046	13 700	16 295	654	2 595	1,0	3,5
Japon	1 669	2 335	2 697	666	362	7,0	2,9
Europe occidentale	9 939	10 723	12 138	784	1 415	1,5	2,5
Océanie	588	869	1 046	281	177	8,1	3,8
Autres	243	261	391	18	130	1,5	3,4
Pays en dév. à écon. marché	785	990	1 499	205	509	4,8	8,7
Afrique	18	27	37	9	10	8,4	6,5
Amérique latine	450	515	815	65	300	2,7	9,6
Asie	317	448	647	131	199	7,2	7,6
Pays à écon. centr. planif.	3 712	4 149	4 647	437	498	2,2	2,3
Asie	845	942	1 171	97	229	2,2	4,4
Europe orientale	867	957	976	90	19	2,0	0,4
U.R.S.S.	2 000	2 250	2 500	250	250	2,4	2,1

(\*) Y compris la pâte thermo-mécanique

Des données sur la pâte thermo-mécanique ont été à nouveau rassemblées et sont résumées au tableau ci-dessous, qui donne également des chiffres pour 1978 car ils serviront, pense-t-on, à retracer l'évolution de la capacité de cette qualité de pâte. Il faut noter que tous les pays n'ont pas été en mesure de fournir des données mais on estime que le tonnage en question est relativement faible. Plus de la moitié de l'accroissement mondial total enregistré entre 1979 et 1984 sera le fait de l'Amérique du Nord - la Scandinavie, le Japon et l'Amérique Latine représentant également des volumes importants. Aux Etats-Unis, depuis la création de la première usine de pâte thermo-mécanique en 1975, la croissance de la capacité a été rapide et n'a fait que s'accélérer. Entre 1979 et 1982, on s'attend à une augmentation de 35 pour cent, ce qui contraste nettement avec l'absence virtuelle de croissance de la capacité de pâte de bois de raperie et d'autres pâtes mécaniques. En Amérique Latine, la capacité de pâte thermo-mécanique actuellement en cours d'installation est supérieure à celle de pâte mécanique traditionnelle. On trouvera des statistiques plus détaillées dans les données par pays.

Tableau 5 - Accroissement de la capacité de production de pâte thermo-mécanique, 1978-84

	<u>Capacité</u>			<u>Augmentation</u>
	1978	1979	1984	1979-84
	----- milliers de tonnes -----			-----
Total mondial	3 237	3 872	8 462	4 590
Pays dev. à écon. marché	3 237	3 837	7 940	4 103
Amérique du Nord	1 188	1 508	4 010	2 502
Japon	621	807	1 168	361
Pays nordiques	1 276	1 285	2 270	985
Autres, Europe occidentale	112	113	189	76
Océanie	40	124	303	179
Pays en dev. à écon. marché	-	35	369	334
Amérique latine	-	-	249	249
Asie	-	35	120	90
Pays à écon. centr. planif.	-	-	153	153
U.R.S.S.	-	-	140	140
Europe orientale	-	-	13	13

Pâte de bois mi-chimique

Entre 1979 et 1984, la capacité mondiale de pâte mi-chimique et mécano-chimique devrait passer de 10,5 à 11,7 millions de tonnes, soit une augmentation de 1,2 million de tonnes à un taux annuel moyen de 2,2 pour cent. Cette augmentation est beaucoup plus rapide que celle enregistrée au cours des cinq dernières années mais elle est due en partie aux réductions de capacité intervenues au Japon et en Europe occidentale au cours des mêmes années.

Tableau 6 - Accroissement de la capacité de production de pâte de bois  
mi-chimique pour papier, 1974-84

	Capacité			Augmentation totale		Augmentation annuelle moyenne	
	1974	1979	1984	1974-79	1979-84	1974-79	1979-84
	milliers de tonnes					pourcentage	
Total mondial	10 082	10 523	11 743	441	1 220	0,9	2,2
Pays dev. à écon. marché	9 131	8 914	9 518	- 217	604	- 0,5	1,3
Amérique du Nord	4 279	4 647	5 110	368	463	1,7	1,9
Japon	2 318	1 919	1 949	- 399	30	- 3,8	0,3
Europe occidentale	2 044	1 793	1 892	- 251	99	- 2,6	1,1
Océanie	329	393	405	64	12	3,6	0,6
Autres	161	162	162	1	-	0,1	-
Pays en dev. à écon. marché	373	592	900	219	308	9,7	3,7
Afrique	5	10	66	5	56	14,9	46,0
Amérique latine	305	488	617	183	129	9,9	4,8
Asie	63	94	217	31	123	8,3	18,2
Pays à écon. centr. planif.	578	1 017	1 325	439	308	12,0	5,4
Asie	-	-	-	-	-	-	-
Europe orientale	188	417	475	299	58	17,3	2,6
U.R.S.S.	390	600	850	210	250	9,0	7,2

Pâte de bois chimique pour papier

La proportion de la pâte de bois chimique dans l'ensemble des pâtes à papier reste constante (juste au-dessous des deux tiers) même si l'on tient compte du taux d'accélération de l'expansion prévu dans les cinq prochaines années. Au cours de cette période, plus de 11 millions de tonnes supplémentaires seront probablement installées dont la majeure partie sera située en Amérique du Nord. Toutefois, la mise en production de grandes installations au Cameroun et au Nigéria feront de l'Afrique un important producteur de pâte de bois chimique.

Le recul de la capacité de pâte au bisulfite blanchie se poursuit. Aux Etats-Unis, par exemple, la capacité en 1979 était inférieure de 1 million au niveau de 1959. En Scandinavie également la capacité a diminué et continuera à baisser à mesure que les usines de pâte au bisulfite seront fermées ou converties à d'autres techniques de fabrication. Le document intitulé "Information on Projected Pulp and Paper Mills in the World, 1979-1989" fournit des renseignements détaillés sur la fermeture des usines ainsi que sur les nouvelles installations prévues dans certains pays.

Tableau 7 - Accroissement de la capacité de production de pâte de bois chimique pour papier, 1974-84

	Capacité			Augmentation totale		Augmentation annuelle moyenne	
	1974	1979	1984	1974-79	1979-84	1974-79	1979-84
	milliers			de tonnes		pourcentage	
Total mondial	83 732	93 499	104 671	9 767	11 172	2,2	2,3
Pays dev. à écon. marché	72 063	77 346	83 259	5 283	5 913	1,4	1,5
Amérique du Nord	45 671	49 665	53 531	3 994	3 866	1,7	1,5
Japon	7 096	8 123	8 873	1 027	750	2,7	1,8
Europe occidentale	18 068	18 334	19 569	266	1 235	0,3	1,3
Océanie	958	924	964	- 34	40	- 0,7	0,9
Autres	270	300	322	30	22	2,1	1,4
Pays en dev. à écon. marché	3 001	4 935	7 604	1 934	2 669	10,5	9,0
Afrique	265	340	786	75	446	5,1	18,2
Amérique latine	2 181	3 931	5 536	1 750	1 605	12,5	7,1
Asie	555	664	1 282	109	618	3,7	14,1
Pays à écon. centr. planif.	8 668	11 218	13 808	2 550	2 590	5,3	4,2
Asie	1 090	1 619	1 993	529	374	8,2	4,2
Europe orientale	1 918	2 399	3 115	481	716	4,6	5,4
U.R.S.S.	5 660	7 200	8 700	1 540	1 500	4,9	3,9

Pâte d'autres fibres

Entre 1979 et 1984, la capacité de production de pâte d'autres fibres, à l'exclusion des vieux papiers, pour papier, devrait passer de 11 à 13,4 millions de tonnes, soit une augmentation équivalant à un taux annuel moyen de 4 pour cent.

Tableau 8 - Accroissement de la capacité de production des pâtes d'autres fibres pour papier, 1974-84

	Capacité			Augmentation totale		Augmentation annuelle moyenne	
	1974	1979	1984	1974-79	1979-84	1974-79	1979-84
	milliers			de tonnes		pourcentage	
Total mondial	7 939	11 005	13 411	3 066	2 406	6,8	4,0
Pays dev. à écon. marché	1 969	1 753	1 836	- 216	83	- 2,3	0,9
Amérique du Nord	741	715	801	- 26	86	- 0,7	2,3
Japon	4	4	4	-	-	-	-
Europe occidentale	1 161	917	914	- 244	- 3	- 4,6	- 0,1
Océanie	6	7	7	1	-	3,1	-
Autres	57	110	110	53	-	14,1	-
Pays en dev. à écon. marché	2 303	3 176	4 532	873	1 356	6,6	7,4
Afrique	175	191	238	16	47	1,8	4,7
Amérique latine	940	1 220	1 885	280	665	5,4	9,1
Asie	1 188	1 765	2 409	577	644	8,2	6,4
Pays à écon. centr. planif.	3 667	6 076	7 043	2 409	967	10,6	3,0
Asie	3 036	5 318	6 138	2 282	820	11,9	2,9
Europe orientale	231	258	280	27	22	2,2	1,7
U.R.S.S.	400	500	625	100	125	4,6	4,6

Les pâtes d'autres fibres n'ont que peu d'importance dans les pays développés où elles ne représentent qu'environ 0,5 pour cent de la capacité totale de pâte à papier et une part encore plus faible de la matière première fibreuse si l'on tient compte des vieux papiers. La situation est tout à fait opposée dans les pays en développement où, dans les pays asiatiques à économie centralement planifiée par exemple, cette capacité atteint les deux tiers. Selon les régions, les fibres les plus utilisées sont le bambou et la bagasse mais d'autres fibres ont également donné de bons résultats bien qu'utilisées à une plus petite échelle. L'annexe 11 illustre l'importance d'autres pâtes de fibres dans les pays en développement.

#### Pâte à dissoudre

La capacité de production de pâte à dissoudre est restée presque stationnaire (6 millions de tonnes) au cours des cinq dernières années. Pour la prochaine période quinquennale, on ne s'attend qu'à une croissance très modeste d'environ 0,5 millions de tonnes.

#### Papiers et cartons

Si tous les plans sont réalisés, la capacité mondiale de production de papiers et cartons augmentera de plus de 29 millions de tonnes en 1984, ce qui portera le total à 222 millions de tonnes. Il s'agirait du plus fort accroissement enregistré depuis l'enquête de 1975-80. A noter particulièrement l'augmentation bien supérieure dans le domaine des papiers et cartons par rapport à la pâte, différence qui se traduirait par près de 9 millions de tonnes au cours des cinq prochaines années. Comme on peut le voir à l'annexe 9, un tel écart n'a été prévu dans aucune des dix dernières enquêtes. Pour satisfaire cette demande supplémentaire de fibres, il faudra probablement recourir aux vieux papiers ce qui impliquerait la collecte d'environ 2 millions de tonnes supplémentaires par an.

Près des deux tiers de la capacité supplémentaire seront situés dans les pays développés qui possèdent déjà les trois quarts de la capacité mondiale. Dans les pays en

Tableau 9 - Accroissement de la capacité de production totale de papier et carton, 1974-84

	Capacité			Augmentation totale		Augmentation annuelle moyenne		
	1974	1979	1984	1974-79	1979-84	1974-79	1979-84	
	milliers de tonnes						pourcentage	
Total mondial	166 793	192 174	221 532	25 381	29 358	2,9	2,9	
Pays dev. à écon. marché	137 121	150 701	169 440	13 580	18 739	1,9	2,4	
Amérique du Nord	70 148	75 340	83 595	5 192	8 255	1,5	2,1	
Japon	18 612	21 453	24 996	2 841	3 543	2,9	3,1	
Europe occidentale	45 412	50 353	56 531	4 941	6 178	2,1	2,3	
Océanie	1 942	2 300	2 703	358	403	3,4	3,3	
Autres	1 007	1 255	1 615	248	360	4,5	5,2	
Pays en dev. à écon. marché	10 285	15 025	20 956	4 740	5 931	7,9	6,9	
Afrique	598	720	1 193	122	473	3,8	10,6	
Amérique latine	6 326	8 601	11 615	2 275	3 014	6,3	6,2	
Asie	3 361	5 704	8 148	2 343	2 444	11,2	7,4	
Pays à écon. centr. planif.	19 387	26 448	31 136	7 061	4 688	6,4	3,3	
Asie	5 619	8 955	10 285	3 336	1 330	9,8	2,8	
Europe orientale	4 768	5 993	6 851	1 225	858	4,7	2,7	
U.R.S.S.	9 000	11 500	14 000	2 500	2 500	5,0	4,0	

développement toutefois, non seulement l'expansion est plus rapide, mais la capacité pourrait doubler entre 1974 et 1984 pour atteindre 21 millions de tonnes. Dans ce cas, 9,5 pour cent de la capacité mondiale de papiers et cartons seraient situés dans les pays en développement à économie de marché. A la même date, les pays à économie centralement planifiée posséderont 14 pour cent de la capacité mondiale totale de papiers et cartons.

Les chiffres par pays contenus dans les deux dernières enquêtes montrent que la plus forte expansion est maintenant prévue en Amérique du Nord tandis que le Japon et la Suède ont prévu d'ajouter une capacité plus faible. Dans la Communauté économique européenne, la rationalisation de l'industrie se poursuit.

#### Papier journal

La capacité de production de papier journal est une fois encore en hausse avec près de 7 millions de tonnes supplémentaires prévues entre 1979 et 1984, soit un accroissement de 25 pour cent. La plus grande partie du volume supplémentaire sera enregistrée au Canada et aux Etats-Unis, mais l'expansion en Finlande et en Amérique latine sera également importante. Dans les quelques prochaines années, une grande installation devrait devenir opérationnelle au Nigéria, ce qui, avec d'autres projets en Asie et en Amérique latine, devrait contribuer à satisfaire la demande locale de papier journal des pays en développement. Pour les pays à économie centralement planifiée, l'accroissement prévu est plus ou moins le même que celui qui a été enregistré effectivement entre 1974 et 1979.

#### Autres papiers d'impression et d'écriture

La capacité future de production de papiers d'impression et d'écriture est également en plein accroissement. La plus grande partie de cette augmentation sera enregistrée aux Etats-Unis - où la capacité de papier mécanique couché augmentera à un taux record de 8 pour cent par an jusqu'en 1982 - en Europe occidentale où, en Finlande par exemple, l'accent est

Tableau 10 - Accroissement de la capacité de production de papier journal, 1974-84

	Capacité			Augmentation totale		Augmentation annuelle moyenne	
	1974	1979	1984	1974-79	1979-84	1974-79	1979-84
	milliers			de tonnes		pourcentage	
Total mondial	24 469	27 215	34 067	2 746	6 852	2,2	4,6
Pays dév. à écon. marché	21 107	22 725	28 067	1 618	5 342	1,5	4,3
Amérique du Nord	12 326	12 748	15 295	422	2 547	0,7	3,7
Japon	2 299	2 707	3 644	408	937	3,3	6,1
Europe occidentale	5 862	6 491	7 952	629	1 461	2,1	4,1
Océanie	413	543	725	130	182	5,6	6,0
Autres	207	236	451	29	215	2,7	13,8
Pays en dév. à écon. marché	735	1 372	2 420	637	1 048	13,3	12,0
Afrique	13	24	104	11	80	13,0	34,0
Amérique latine	295	707	1 330	412	623	19,1	13,5
Asie	427	641	986	214	345	8,5	9,0
Pays à écon. centr. planif.	2 627	3 118	3 580	491	462	3,5	2,8
Asie	820	950	1 152	130	202	3,0	3,9
Europe orientale	357	468	478	111	10	5,6	0,4
U.R.S.S.	1 450	1 700	1 950	250	250	3,2	2,8

mis sur ces qualités, et dans les pays en développement d'Afrique, d'Amérique latine et d'Asie. Au cas où tous les plans seraient mis en oeuvre, les pays en développement à économie de marché posséderont près de 10 pour cent de la capacité mondiale de production de papiers d'impression et d'écriture en 1984 contre 6,7 pour cent il y a 10 ans, ce qui devrait, dans une certaine mesure, diminuer leur dépendance à l'égard des importations de ces qualités de papiers.

Tableau 11 - Accroissement de la capacité de production d'autres papiers  
d'impression et d'écriture, 1974-84

	Capacité			Augmentation totale		Augmentation annuelle moyenne	
	1974	1979	1984	1974-79	1979-84	1974-79	1979-84
	milliers de tonnes					pourcentage	
Total mondial	36 859	44 848	53 807	7 989	8 959	4,0	3,7
Pays dév. à écon. marché	31 015	36 222	42 649	5 207	6 427	3,2	3,3
Amérique du Nord	13 726	15 662	17 953	1 936	2 291	2,7	6,1
Japon	3 080	4 405	5 911	1 325	1 506	7,4	6,1
Europe occidentale	13 777	15 665	18 244	1 888	2 579	2,6	3,1
Océanie	261	274	303	13	29	1,0	2,0
Autres	171	216	238	45	22	4,8	2,0
Pays en dév. à écon. marché	2 500	3 626	5 231	1 126	1 605	7,7	7,6
Afrique	173	228	376	55	148	5,7	10,5
Amérique latine	1 250	1 688	2 309	438	621	6,2	6,5
Asie	1 077	1 710	2 546	633	836	9,7	8,3
Pays à écon. centr. planif.	3 344	5 000	5 927	1 656	927	8,4	3,5
Asie	1 279	2 417	2 790	1 138	373	13,6	2,9
Europe orientale	865	1 133	1 437	268	304	5,5	4,9
U.R.S.S.	1 200	1 450	1 700	250	250	3,9	3,2

Rapport entre la capacité de production de pâte et la capacité de production de papiers et cartons

Depuis près de quinze ans, le rapport entre la capacité de production de pâte et celle de papiers et cartons fléchit régulièrement, tendance qui reflète sans aucun doute l'utilisation accrue des vieux papiers pour la fabrication de papiers et cartons. L'enquête actuelle indique une divergence encore plus grande entre la croissance de la capacité de production de pâte et celle de papier, due probablement en partie à la nouvelle méthode de calcul de la capacité de pâte en Suède, ce qui a entraîné la baisse du rapport pâte/papier. Les chiffres pertinents sont présentés au tableau ci-dessous.

	Pâte/papiers et cartons en pourcentage
1965	81,8
1970	80,5
1975	77,8
1979 (a)	77,1
1980 (a)	77,2
1981 (a)	76,6
1982 (a)	76,6
1983 (a)	76,5
1984 (a)	76,1

(a) Selon les prévisions de l'enquête 1979-84.

Comparaison avec les enquêtes précédentes

La tendance au ralentissement constant de la croissance future des capacités de fabrication de pâte et de papier indiqué dans les quatre dernières enquêtes a enfin été radicalement enrayerée. Une comparaison avec les enquêtes précédentes est présentée dans le tableau suivant et à l'Annexe 9 qui donne également les chiffres pour 1969-74 afin de montrer l'importante différence qui existait à l'époque entre les capacités supplémentaires de production de pâte et celles de papier.

<u>Période couverte par l'enquête</u>	<u>Augmentation totale pendant la période couverte</u>	
	<u>Pâte pour papier, totale</u>	<u>Papier et carton totale</u>
	- - - - millions de tonnes - - - -	
1969-74	26,1	37,5
1974-79 (a)	26,7	33,3
1975-80	25,4	31,1
1976-81	23,3	28,1
1977-82	21,0	27,4
1978-83 (b)	19,2	26,6
1979-84 (b)	20,5	29,4

(a) à la suite des amendements présentés par neuf pays: Canada, Etats-Unis, Brésil, Finlande, France, République fédérale d'Allemagne, Suède, Royaume-Uni, Japon

(b) pas comparable avec les enquêtes antérieures à 1978-83

Pour les principales catégories de pâte, de papiers et de cartons, l'accroissement global de capacité prévu au cours des périodes couvertes par les quatre dernières enquêtes se chiffre comme suit. Pour les raisons exposées à la première page du rapport de l'année dernière, les données des enquêtes relatives aux années 1977-82 et 1978-83 ne peuvent être comparées.

	<u>Enquête</u> 1976-81	<u>Enquête</u> 1977-82	<u>Enquête</u> 1978-83	<u>Enquête</u> 1979-84
	- - - - - milliers de tonnes - - - - -			
Pâte de bois	21 134	19 147	17 066	18 078
dont:				
Mécanique (a)	4 348	4 097	4 819	5 686
Mi-chimique (b)	1 477	1 288	1 135	1 220
Chimique	15 309	13 762	11 112	11 172
Pâte d'autres fibres	2 147	1 820	2 118	2 406
Papier et carton, total	28 077	27 363	26 590	29 358
dont:				
Papier journal	4 655	4 624	5 552	6 852
Autres papiers d'impression et d'écriture	6 911	6 716	6 751	8 959
Autres papiers et cartons	16 511	16 023	14 287	13 547
- papier d'emballage	13 161	12 435	10 820	10 785

(a) Y compris la pâte thermo-mécanique

(b) Y compris la pâte chimico-mécanique

L'annexe 10 indique, par produit et par région, la capacité effectivement installée entre 1974 et 1979 et les additions prévues au cours des cinq années successives. On peut constater l'importance croissante de la pâte chimique, tant dans les pays développés que dans les pays en développement à économie de marché, ainsi que la dépendance des pays à économie centralement planifiée vis-à-vis des pâtes d'autres fibres. En ce qui concerne les papiers et les cartons, l'augmentation rapide de la capacité future de fabrication du papier journal, tant dans les pays développés que dans les en développement, n'est pas suivie par les pays à économie centralement planifiée. Dans les pays en développement, l'expansion de l'industrie est également caractérisée par le développement de la capacité de fabrication des papiers d'impression et d'écriture.

Informe de la Secretaría de la FAO sobre la  
Encuesta mundial de la Capacidad de Producción de Pasta y Papel 1979-84

Los estudios anuales de la FAO sobre capacidades mundiales de pasta y papel se basan en cifras recibidas a principios del año de los corresponsales en la mayoría de los países del mundo y en estimaciones de la Secretaría con respecto a los demás países. En la mayoría de los casos, los datos son suministrados por las asociaciones nacionales de comerciantes de pasta y papel y se basan en informaciones proporcionadas por sus socios hace más o menos seis meses, acerca de sus planes futuros de desarrollo. Por tanto, los resultados reflejan las intenciones de los industriales en el momento de realizarse los estudios. Mientras tanto las ulteriores condiciones económicas, financieras y del mercado pueden influir considerablemente en esa intención.

El alcance, el contenido y la presentación de la encuesta no han cambiado este año. Sin embargo, se sabe de dos países - Colombia y Tailandia - que han mejorado la base de sus datos como fruto de estudios especiales de la industria. Se ha efectuado una revisión importante en el método empleado por Canadá para evaluar la capacidad de producción de pasta para comercialización. A raíz de un estudio completo sobre la producción y capacidad de las fábricas de pasta destinada al mercado, se revisó la capacidad de muchas fábricas a fin de que reflejara la producción máxima alcanzada durante los últimos tres años. Este procedimiento dio lugar en 1979 a una reducción de un seis por ciento de la capacidad total de pasta destinada al mercado y a reducciones similares durante otros años. En Suecia se ha empleado también un nuevo método para estimar la producción total y la capacidad de pasta de papel destinada al mercado.

Una vez más se ha preparado una lista de los planes de ampliación, gracias a la cooperación de muchos de los participantes en la encuesta, lista que se publica separadamente como "Fábricas de pasta y papel proyectadas en el mundo para 1979-1989" (Projected Pulp and Paper Mills in the World, 1979-1989). La capacidad adicional prevista se ha cotejado con los datos obtenidos en la encuesta actual, pero esta lista no es exhaustiva; puede resultar una capacidad adicional importante por mejoras de máquinas, planes confidenciales, etc., cuyos detalles no se conocen. Con todo, se espera que la información relativa a las intenciones de los industriales en un momento particular resulte de utilidad.

Las principales conclusiones del estudio de la capacidad de pasta y papel para 1979-84 son las siguientes:

- (a) la capacidad adicional de pasta y papel va una vez más en aumento, después de cuatro años de expectativas relativamente bajas. Los aumentos proyectados para la capacidad de papel son particularmente elevados;
- (b) la capacidad mundial de pasta para papel aumentará en principio de 148 millones de toneladas en 1979 a 168,5 millones de toneladas en 1984. Este aumento de 20,5 millones de toneladas representa un crecimiento anual del 2,6 por ciento;
- (c) la capacidad mundial de papel y cartón aumentará probablemente de 192,2 millones de toneladas en 1979 a 221,5 millones de toneladas en 1984. Este aumento de 29,3 millones de toneladas representa un crecimiento anual del 2,9 por ciento;
- (d) la capacidad mundial de pasta de madera en 1979 es ligeramente inferior a la prevista en la encuesta del año pasado, debido en parte a los cambios registrados en la base de datos. Asimismo, la capacidad de papel y cartón es más baja, lo cual refleja, sin duda, la incertidumbre de las condiciones del mercado;
- (e) la capacidad de pasta termomecánica continúa su rápido ritmo de expansión y se prevé que alcanzará los 8,5 millones de toneladas para 1984;
- (f) se prevé además un aumento del volumen de pasta química de madera durante los próximos cinco años, principalmente en América del Norte y Europa occidental. Se construirán nuevas instalaciones importantes en África;
- (g) la capacidad de pasta al sulfato blanqueada de especies frondosas registrará probablemente un aumento de 2,7 millones de toneladas para pasar de 18 millones de toneladas en 1979 a 20,7 millones de toneladas en 1984, cifra inferior a la prevista en las últimas cuatro encuestas;
- (h) la pasta de otras fibras sigue desempeñando una función importante en el abastecimiento interior de materias primas para la fabricación de papel en los países en desarrollo y representa aproximadamente un tercio de la capacidad. En Asia, la proporción pasa del 50 por ciento;
- (i) los países en desarrollo se beneficiarán de un aumento de un tercio en su capacidad de papel y cartón, con casi 6 millones añadidos al total actual. Se prevé que se obtendrá una cantidad inferior en los países con economía centralmente planificada. Los aumentos de capacidad de los países desarrollados, aunque de volumen mucho mayor (18,7 millones de toneladas) representarán una ampliación de más del 12 por ciento respecto al nivel de 1979;
- (j) después de varios años de crecimiento relativamente modesto, la capacidad de papel para periódicos aumentará rápidamente, con un previsto incremento de 7 millones adicionales de toneladas entre 1979 y 1984;
- (k) la relación entre la capacidad de fabricación de pasta y la capacidad de papel y cartón sigue disminuyendo.

Tendencias por productos y regiones

Según la última encuesta, la capacidad mundial de pasta para papel aumentará de 148 millones de toneladas en 1979 a 168,5 millones de toneladas en 1984, y la capacidad de papel y cartón pasará de 192,2 a 221,5 millones de toneladas. En el Cuadro 1 siguiente se explica el crecimiento de la capacidad. Dos puntos merecen ser señalados: mientras que la capacidad de pasta de papel de madera habrá aumentado aproximadamente la mitad en los 15 años comprendidos entre 1969 y 1984, se prevé un ritmo de avance mucho más rápido para pasta de otras fibras, así como para el papel y el cartón. En los próximos 5 años, la capacidad adicional de papel y cartón superará a la de pasta de papel en 9 millones de toneladas. En los anexos 1-6 se dan detalles de la capacidad, por productos principales y regiones, en cada uno de los años 1979-84.

Cuadro 1 - Capacidad mundial de producción de pasta, papel y cartón, 1969-84

	Capacidad total				Incremento anual medio		
	1969	1974	1979	1984	1969-74	1974-79	1979-84
	----- millones de -----				----- porcentaje -----		
	toneladas métricas						
Total de pastas de madera para papel	101,0	123,8	137,0	155,1	4,3	2,0	2,5
Mecánica (a)	26,4	30,0	33,0	38,7	2,6	2,0	3,2
Semiquímica (b)	8,2	10,1	10,5	11,7	4,2	0,9	2,2
Química	66,4	83,7	93,5	104,7	4,7	2,2	2,3
Otra pasta de fibra	7,3	7,9	11,0	13,4	1,6	6,7	4,0
Pasta soluble	5,3	5,9	6,0	6,5	2,2	0,3	1,4
Total papel y cartón	132,9	166,8	192,2	221,5	4,6	2,9	2,9
Papel para periódicos	23,1	24,4	27,2	34,1	1,2	2,2	4,6
Papel de escritura e impresión	26,4	36,9	44,9	53,8	6,9	4,0	3,7
Otros papeles y cartones	83,4	105,5	120,1	133,6	4,8	2,6	2,2

- (a) se incluye la pasta termomecánica  
 (b) se incluye la pasta quimicomecánica

En las encuestas precedentes se han señalado a la atención los índices medios de reducción del crecimiento en los próximos quinquenios. Parece ser ahora que se ha frenado esta tendencia tanto respecto a la pasta de madera como al papel y el cartón, pues los índices son ligeramente más elevados en el período 1979-84. Por ejemplo, el índice de crecimiento previsto para la capacidad de pasta de madera, que fue del 3,4 por ciento en la encuesta 1975-80 y del 3,1, 2,7, 2,4 en encuestas sucesivas, se ha elevado ahora ligeramente al 2,5 por ciento. Se ha invertido la baja ininterrumpida del papel y el cartón desde un 3,3 por ciento a un 2,7 por ciento y actualmente se sitúa a 2,9 por ciento. No obstante, sobre la base de un año para otro la pauta es muy similar; así, en los tres primeros años de la encuesta el índice anual de incremento es más rápido y disminuye posteriormente, cuando los compromisos en firme dan paso a planes provisionales. Para más detalles véase el cuadro que sigue.

Cuadro 2 - Tasa anual de aumento de la capacidad mundial de producción de pasta, papel y cartón, 1979-84

	Incrementos anuales				
	1979-80	1980-81	1981-82	1982-83	1983-84
	porcentaje				
Total de pasta de madera para papel	3,0	2,7	3,5	2,2	1,2
Mecánica (a)	4,1	3,7	4,9	2,7	0,8
Semiquímica (b)	1,1	3,8	1,9	3,0	1,3
Química	2,8	2,2	3,1	2,0	1,3
Otra pasta de fibra	7,3	3,6	3,1	3,2	2,9
Pasta soluble	0,8	2,0	1,5	1,7	1,0
Total de papel y cartón	3,1	3,6	3,5	2,4	1,8
Papel para periódicos	4,4	6,0	5,7	3,9	3,0
Papel de escritura e impresión	4,7	4,4	3,9	3,0	2,5
Otro papel y cartón	2,3	2,7	2,7	1,8	1,3

- (a) se incluye la pasta termomecánica  
 (b) se incluye la pasta quimicomecánica

Total de pasta para fabricación de papel

Se prevé un aumento de 20,5 millones de toneladas en la capacidad de pasta para fabricación de papel entre 1979 y 1984. Se trata de una cantidad modesta en comparación con las últimas diez encuestas, incluso si se tienen en cuenta los cambios registrados en la base de las cifras de Estados Unidos a los que se hizo referencia el año pasado. Dicha cifra es inferior a los 23,4 millones de toneladas obtenidos realmente entre 1969-1974, pero es superior al volumen añadido entre 1974 y 1979. La pasta mecánica representará 5,7 millones de toneladas (incluidos 4,6 millones de toneladas de pasta termomecánica), la pasta semiquímica 1,2 millones de toneladas, la pasta química 11,2 millones y los 2,4 millones restantes corresponderán a pasta de otras fibras. Es pequeño el aumento de la capacidad de pasta soluble, pues asciende únicamente a 0,5 millones de toneladas.

Respecto a la pasta al sulfato blanqueada de especies frondosas, a la que se han añadido más de tres millones de toneladas de nueva producción entre 1974 y 1979, un tercio de la cual correspondió a Brasil, los planes futuros señalan un gran aumento en los próximos cinco años, pero todo de menor volumen que el de las últimas encuestas. Los nuevos proyectos que utilizan especies tropicales no coníferas no han alcanzado todavía su pleno potencial.

Toda la capacidad de pasta para papel, salvo una pequeña parte, se registra en los países desarrollados. A raíz de la ejecución de varios planes en países de desarrollo, no sólo ha aumentado el volumen de la capacidad, sino también la proporción del total mundial correspondiente a estos países. Esta proporción podría llegar a un 8,6 por ciento en 1984, en comparación con el 4,9 por ciento de diez años antes.

Pasta para el mercado

Se ha llamado ya la atención sobre los cambios registrados en las estimaciones canadienses de la pasta destinada al mercado. Estos son de especial importancia, ya que Canadá es el mayor productor mundial de pasta para comercialización, y su producción representa aproximadamente un cuarto del total mundial. En el presente estudio se señala que la capacidad de la pasta destinada al mercado aumentará en 2,5 millones de toneladas en los próximos tres años y que el incremento será mayor en los países desarrollados que en los países en desarrollo. Los países con mayores volúmenes adicionales son Canadá y Brasil. Como los aumentos de papel y cartón podrían superar en unos 9 millones de toneladas a la cantidad prevista de pasta durante los próximos cinco años, es posible que se ejerzan presiones sobre las disponibilidades de la pasta destinada al mercado y el papel de desecho.

Pasta de madera

Se prevé que el volumen de la capacidad adicional de pasta de madera para papel en el mundo entre 1979 y 1984 será de 18,1 millones de toneladas, cantidad considerablemente mayor de la que se obtuvo realmente en los últimos cinco años. Algunos países alcanzaron apenas el nivel de capacidad que habían previsto para 1979 en la encuesta del año anterior. Por ejemplo, Suecia produjo aproximadamente medio millón de toneladas menos del objetivo previsto, pero esto puede, en parte, haberse debido al nuevo método empleado para la estimación de la capacidad. En comparación con la encuesta del año anterior, se prevé actualmente que en Japón, Brasil y la República Federal de Alemania se obtendrá una capacidad menor en los próximos años, pero esta reducción está compensada con previsiones más altas para América del Norte y Escandinavia. En el cuadro 3 se resumen el volumen y la ubicación de la nueva capacidad.

Cuadro 3 - Aumentos de la capacidad total de producción de pasta de madera para papel, 1974-84

	Capacidad			Aumento total		Aumento anual medio	
	1974	1979	1984	1974-79	1979-84	1974-79	1979-84
	millares de toneladas métricas			-		porcentaje	
Total mundial	123 796	137 049	155 127	13 253	18 078	2,1	2,5
Econ. merc. desarrolladas	106 679	114 148	125 344	7 469	11 196	1,4	1,9
América del Norte	62 996	68 012	74 936	5 016	6 924	1,5	2,0
Japón	11 083	12 377	13 519	1 294	1 142	2,2	1,8
Europa occidental	30 051	30 850	33 599	799	2 749	0,5	1,7
Oceania	1 875	2 186	2 415	311	229	3,1	2,0
Otras	674	723	875	49	152	1,4	3,9
Econ. merc. en desarrollo	4 159	6 517	10 003	2 358	3 486	9,4	9,0
Africa	288	377	889	89	512	5,5	18,7
América Latina	2 936	4 934	6 968	1 998	2 034	10,9	7,1
Asia	935	1 206	2 146	271	940	5,2	12,2
Econ. centralmente planif.	12 958	16 384	19 780	3 426	3 396	4,8	3,8
Asia	1 935	2 561	3 164	626	603	5,8	4,3
Europa oriental	2 973	3 773	4 566	800	793	4,9	3,9
U.R.S.S.	8 050	10 050	12 050	2 000	2 000	4,5	3,7

Gracias a la capacidad ya instalada desde 1974, las fábricas ya en construcción y las que se proyectan, los países en desarrollo casi duplicarán su contribución a la capacidad mundial de pasta de madera entre 1974 y 1984, pasando de un 3,4 a un 6,5 por ciento. América Latina, Asia y África han participado en el crecimiento en ese orden por lo que se refiere al volumen de capacidad añadida. Corolario de ello es la proporción descendente en América del Norte, Europa occidental y Japón. Debido principalmente al desarrollo de la industria de la pasta en la U.R.S.S. y en menor medida al registrado en Checoslovaquia, ha aumentado la contribución de los países con economía centralmente planificada a la capacidad mundial de pasta de madera.

#### Pasta mecánica

El índice de expansión de la capacidad de la pasta mecánica se acelerará en los próximos cinco años para alcanzar un 3,2 por ciento, en comparación con el 2 por ciento logrado efectivamente entre 1974 y 1979. Este comprende el desarrollo previsto para la pasta termomecánica y probablemente refleja sobre todo la rápida expansión pronosticada de la capacidad de papel para periódicos, tema éste del que se tratará más adelante. Considerado por regiones, el crecimiento mayor corresponde a América del Norte, que representa poco más de la mitad de la producción total mundial desde 1979-84; siguen después Europa occidental y, a bastante distancia, Japón y América Latina. Para un resumen detallado, véase el Cuadro 4 que sigue.

Cuadro 4 - Aumentos de la capacidad de producción de pasta mecánica\*  
de madera para papel, 1974-84

	Capacidad			Aumento total		Aumento anual medio	
	1974	1979	1984	1974-79	1979-84	1974-79	1979-84
	--- millares de toneladas métricas ---			--- porcentage ---			
Total mundial	29 982	33 027	38 713	3 045	5 686	2,0	3,2
Econ. merc. desarrolladas	25 485	27 888	32 567	2 403	4 679	1,8	3,2
América del Norte	13 046	13 700	16 295	654	2 595	1,0	3,5
Japón	1 669	2 335	2 697	666	362	7,0	2,9
Europa occidental	9 939	10 723	12 138	784	1 415	1,5	2,5
Oceanía	588	869	1 046	281	177	8,1	3,8
Otras	243	261	391	18	130	1,5	8,4
Econ. merc. en desarrollo	785	990	1 499	205	509	4,8	8,7
África	18	27	37	9	10	8,4	6,5
América Latina	450	515	815	65	300	2,7	9,6
Asia	317	448	647	131	199	7,2	7,6
Econ. centralmente planif.	3 712	4 149	4 647	437	498	2,2	2,3
Asia	845	942	1 171	97	229	2,2	4,4
Europa oriental	867	957	976	90	19	2,0	0,4
U.R.S.S.	2 000	2 250	2 500	250	250	2,4	2,1

\*) incluso pasta termomecánica

En el Cuadro 5 se resumen los datos recopilados sobre la pasta termomecánica. Se incluyen también las cifras correspondientes a 1978, por estima ese que serán de interés para seguir la evolución de la capacidad de este tipo de pasta. Haya que hacer notar que no todos los países han estado en condiciones de dar detalles, pero se estima que el tonelaje no comunicado es relativamente pequeño. Más de la mitad del aumento total mundial de 1979 y 1984 corresponderá a América del Norte, pero Escandinavia, Japón y Sudamérica contribuirán también con cantidades importantes. En los Estados Unidos, desde el establecimiento de la primera fábrica PTM en 1975, el crecimiento de la capacidad ha mantenido un ritmo acelerado. Se prevé que entre 1979 y 1982 el incremento será del 35 por ciento, lo que contrasta fuertemente con la carencia virtual de crecimiento de la pasta de molino y otras pastas

Cuadro 5 - Aumento de la capacidad de pasta termomecánica  
1978-1984

	<u>Capacidad</u>			<u>Aumento</u>
	1978	1979	1984	1979-84
	----- millares de toneladas métricas -----			
Total mundial	3 237	3 872	8 462	4 590
Economías de mercado desarroll.	3 237	3 837	7 940	4 103
América del Norte	1 188	1 508	4 010	2 502
Japón	621	807	1 168	361
Escandinavia	1 276	1 285	2 270	985
Otras Europa occidental	112	113	189	76
Oceanía	40	124	303	179
Economías de merc. en desarrollo	-	35	369	334
América Latina	-	-	249	249
Asia	-	35	120	90
Economías centralmente planif.	-	-	153	153
U.R.S.S.	-	-	140	140
Europa oriental	-	-	13	13

mecánicas. En América Latina se instala mucha más capacidad PTM que capacidad de pasta mecánica tradicional. En los datos por países se ofrecen estadísticas más detalladas.

#### Pasta semiquímica

Entre 1979 y 1984, la capacidad mundial de pasta semiquímica y quimiomecánica aumentará de 10,5 a 11,7 millones de toneladas, es decir, en 1,2 millones de toneladas, a un índice anual del 2,2 por ciento. Este aumento es más rápido que el de los cinco años anteriores, pero se debe en parte a las reducciones de capacidad que tuvieron lugar en Japón y Europa occidental durante esos años.

Cuadro 6 - Aumentos de la capacidad de producción de pasta semiquímica para papel, 1974-84

	Capacidad			Aumento total		Aumento anual medio	
	1974	1979	1984	1974-79	1979-84	1974-79	1979-84
	millares de toneladas métricas			--		-- porcentaje --	
Total mundial	10 082	10 523	11 743	441	1 220	0,9	2,2
Econ. de merc. desarrolladas	9 131	8 914	9 518	- 217	604	- 0,5	1,3
América del Norte	4 279	4 647	5 110	368	463	1,7	1,9
Japón	2 318	1 919	1 949	- 399	30	- 3,8	0,3
Europa occidental	2 044	1 793	1 892	- 251	99	- 2,6	1,1
Oceania	329	393	405	64	12	3,6	0,6
Otras	161	162	162	1	-	0,1	-
Econ. de merc. en desarrollo	373	592	900	219	308	9,7	3,7
África	5	10	66	5	56	14,9	46,0
América Latina	305	488	617	183	129	9,9	4,8
Asia	63	94	217	31	123	8,3	18,2
Econ. centralmente planif.	578	1 017	1 325	439	308	12,0	5,4
Asia	-	-	-	-	-	-	-
Europa oriental	188	417	475	229	58	17,3	2,6
U.R.S.S.	390	600	850	210	250	9,0	7,2

Pasta química de madera para papel

La proporción entre la pasta química de madera y el total de pasta para papel se mantiene constante por debajo apenas de dos tercios, incluso después de tener en cuenta el ritmo acelerado de la expansión prevista durante los próximos cinco años. Es probable que durante este período se obtengan más de 11 millones de toneladas adicionales, la mayor parte de las cuales corresponderán a América del Norte. Sin embargo, el próximo establecimiento de instalaciones importantes en Camerún y Nigeria harán que África llegue a ser un productor importante de pasta química de madera.

Continúa la disminución de la capacidad de pasta al sulfito. Por ejemplo, en los Estados Unidos la capacidad de 1979 fue de 1 millón menos respecto al nivel de 1959. También en Escandinavia se han operado reducciones y han previsto otras, pues las fábricas de pasta al sulfito se cierran o se habilitan para otras elaboraciones. En "Información sobre fábricas de pasta y papel proyectadas en el mundo, 1979-1989" (Projected Pulp and Paper Mills in the World 1979-1989) se facilitarán detalles sobre algunos cierres de fábricas, así como sobre las nuevas instalaciones proyectadas en algunos países.

Cuadro 7 - Aumentos de capacidad de pasta química de madera para papel, 1974-84

	Capacidad			Aumento total		Aumento anual medio	
	1974	1979	1984	1974-79	1979-84	1974-79	1979-84
	millares de toneladas			métricas		porcentaje	
Total mundial	83 732	93 499	104 671	9 767	11 172	2,2	2,3
Econ. merc. desarrolladas	72 063	77 346	83 259	5 283	5 913	1,4	1,5
América del Norte	45 671	49 665	53 531	3 994	3 866	1,7	1,5
Japón	7 096	8 123	8 873	1 027	750	2,7	1,8
Europa occidental	18 068	18 334	19 569	266	1 235	0,3	1,3
Oceanía	958	924	964	- 34	40	- 0,7	0,9
Otras	270	300	322	30	22	2,1	1,4
Econ. merc. desarrolladas	3 001	4 935	7 604	1 934	2 669	10,5	9,0
África	265	340	786	75	446	5,1	18,2
América Latina	2 181	3 931	5 536	1 750	1 605	12,5	7,1
Asia	555	664	1 282	109	618	3,7	14,1
Econ. centralmente planif.	8 668	11 218	13 808	2 550	2 590	5,3	4,2
Asia	1 090	1 619	1 993	529	374	8,2	4,2
Europa Oriental	1 918	2 399	3 115	481	716	4,6	5,4
U.R.S.S.	5 660	7 200	8 700	1 540	1 500	4,9	3,9

Otra pasta de fibra

Se prevé que entre 1979 y 1984 la capacidad de pasta de otras fibras para la fabricación de papel, excluido el papel de desecho, aumentará de 11 a 13,4 millones de toneladas, lo que supone una tasa anual media del 4 por ciento.

Cuadro 8 - Aumentos de capacidad de pasta de otra fibra para papel, 1974-84

	Capacidad			Aumento total		Aumento anual medio	
	1974	1979	1984	1974-79	1979-84	1974-79	1979-84
	millares de toneladas			métricas		porcentaje	
Total mundial	7 929	11 005	13 411	3 066	2 406	6,8	4,0
Econ. merc. desarrolladas	1 969	1 753	1 836	- 216	83	- 2,3	0,9
América del Norte	741	715	801	- 26	86	- 0,7	2,3
Japón	4	4	4	-	-	-	-
Europa Occidental	1 161	917	914	- 244	- 3	- 4,6	- 0,1
Oceanía	6	7	7	1	-	3,1	-
Otras	57	110	110	53	-	14,1	-
Econ. merc. en desarrollo	2 303	3 176	4 532	873	1 356	6,6	7,4
África	175	191	238	16	47	1,8	4,7
América Latina	940	1 220	1 885	280	665	5,4	9,1
Asia	1 188	1 765	2 409	577	644	8,2	6,4
Econ. centralmente planif.	3 667	6 076	7 043	2 409	967	10,6	3,0
Asia	3 036	5 318	6 138	2 282	820	11,9	2,9
Europa Oriental	231	258	280	27	22	2,2	1,7
U.R.S.S.	400	500	625	100	125	4,6	4,6

La pasta de otras fibras reviste pequeña importancia en los países desarrollados, pues presenta aproximadamente el 0,5 por ciento de la capacidad total de fibras para papel, y una proporción incluso más pequeña de las necesidades de fibra, si se tiene en cuenta el papel de desecho. Ocurre lo contrario en los países en desarrollo, donde, por ejemplo, en los países asiáticos de economía centralmente planificada alcanza los dos tercios. Según la parte del mundo de que se trata, las fibras actualmente empleadas son el bambú y el bagazo, pero se han utilizado satisfactoriamente otras fibras, aunque en medida más reducida. En el Anexo 11 se ilustra la importancia de la pasta de otras fibras en los países en desarrollo.

### Pasta soluble

La capacidad de pasta soluble se ha permanecido casi estacionaria en 6 millones de toneladas durante los últimos cinco años. Sólo se prevé un crecimiento adicional muy modesto calculado en 0,5 millones de toneladas durante los próximos cinco años.

### Papel y cartón

Si se realizan todos los planes, se añadirán más de 29 millones de toneladas de papel y cartón a la capacidad mundial en 1984 para alcanzarse un total de 222 millones de toneladas. Se trata del mayor incremento registrado desde la encuesta de 1975-80. Revisten particular interés las mayores expectativas en el sector del papel y el cartón en comparación con la pasta de papel, con una diferencia de crecimiento de casi 9 millones de toneladas durante el período de cinco años. No se había previsto una "disparridad" de tal magnitud en ninguna de las últimas diez encuestas, como se puede advertir en el Anexo 9. La satisfacción de esta necesidad adicional de fibras tendrá que cubrirse probablemente con papel de desecho, lo cual supondrá la recogida de aproximadamente 2 millones de toneladas más por año.

Casi los dos tercios de la nueva capacidad corresponderán a países desarrollados, en los que ya se encuentran las tres cuartas de la capacidad mundial. Ahora bien, en los países en desarrollo, el aumento no es sólo más rápido, sino que la capacidad podría verse duplicada entre 1974 y 1984 hasta alcanzar 21 millones de toneladas. En ese caso, el 9,5 por ciento de la capacidad mundial de papel y cartón estará localizada en los países en desarrollo de economía de mercado.

Cuadro 9 - Aumento de la capacidad total de papel y cartón, 1974-84

	Capacidad			Aumento total		Aumento anual medio	
	1974	1979	1984	1974-79	1979-84	1974-79	1979-84
	--- millares de toneladas métricas ---			---		--- porcentaje ---	
Total mundial	166 793	192 174	221 532	25 381	29 358	2,9	2,9
Econ. merc. desarrolladas	137 121	150 701	169 440	13 580	18 739	1,9	2,4
América del Norte	70 148	75 340	83 595	5 192	8 255	1,5	2,1
Japón	18 612	21 453	24 996	2 841	3 543	2,9	3,1
Europa Occidental	45 412	50 353	56 531	4 941	6 178	2,1	2,3
Oceanía	1 942	2 300	2 703	358	403	3,4	3,3
Otras	1 007	1 255	1 615	248	360	4,6	5,2
Econ. merc. en desarrollo	10 235	15 025	20 956	4 740	5 931	7,9	6,9
África	598	720	1 193	122	473	3,8	10,6
América Latina	6 326	8 601	11 615	2 275	3 014	6,3	6,2
Asia	3 361	5 704	8 148	2 343	2 444	11,2	7,4
Econ. centralmente planif.	19 387	26 448	31 136	7 061	4 688	6,4	3,3
Asia	5 619	8 955	10 285	3 336	1 330	9,8	2,8
Europa Oriental	4 768	5 993	6 851	1 225	858	4,7	2,7
U.R.S.S.	9 000	11 500	14 000	2 500	2 500	5,0	4,0

Para esa misma fecha, la capacidad de los países con economías centralmente planificadas representará el 14 por ciento de la capacidad mundial total de papel y cartón.

De un examen de las cifras correspondientes a determinados países en las dos últimas encuestas se desprende que el mayor aumento se prevé actualmente en América del Norte, mientras que se pronostican aumentos pequeños para Japón y Suecia. Continúa la racionalización en la industria de la CIE.

#### Papel para periódicos

La capacidad de papel para periódicos experimenta de nuevo un rápido aumento, con casi 7 millones de toneladas más de las previstas entre 1979 y 1984, lo que equivale a un incremento del 25 por ciento. La mayor parte del tonelaje adicional corresponderá al Canadá y los Estados Unidos, pero el aumento en Finlandia y América Latina es también importante. En los próximos años deberá entrar en funcionamiento una planta importante en Nigeria, la cual, juntamente con otros proyectos de Asia y América Latina, ayudará a atender a la demanda local de papel para periódicos en los países en desarrollo. Los aumentos de capacidad previstos para los países con economías centralmente planificadas se aproximan a la cantidad instalada efectivamente entre 1974 y 1979.

Cuadro 10 - Aumento de la capacidad de papel para periódicos, 1974-84

	<u>Capacidad</u>			<u>Aumento total</u>		<u>Aumento anual medio</u>	
	1974	1979	1984	1974-79	1979-84	1974-79	1979-84
	millares de toneladas métricas			métricas		porcentaje	
Total mundial	24 469	27 215	34 067	2 746	6 852	2,2	4,6
Econ. merc. desarrolladas	21 107	22 725	28 067	1 618	5 342	1,5	4,3
América del Norte	12 326	12 748	15 295	422	2 547	0,7	3,7
Japón	2 299	2 707	3 644	408	937	3,3	6,1
Europa Occidental	5 862	6 491	7 952	629	1 461	2,1	4,1
Oceanía	413	543	725	130	182	5,6	6,0
Otras	207	236	451	29	215	2,7	13,8
Econ. merc. en desarrollo	735	1 372	2 420	637	1 048	13,3	12,0
Africa	13	24	104	11	80	13,0	34,0
América Latina	295	707	1 330	412	623	19,1	13,5
Asia	427	641	986	214	345	8,5	9,0
Econ. centralmente planif.	2 627	3 118	3 580	491	462	3,5	2,8
Asia	320	950	1 152	130	202	3,0	3,9
Europa Oriental	357	468	478	111	10	5,6	0,4
U.R.S.S.	1 450	1 700	1 950	250	250	3,2	2,8

#### Otro papel de escritura e impresión

Aumenta también rápidamente en volúmen el crecimiento futuro del papel de escritura e impresión. Buena parte del aumento se registrará en los Estados Unidos, donde el papel estucado de pasta mecánica aumentará hasta 1982 a la tasa anual sin precedentes de un 8 por ciento; en Europa occidental, donde en Finlandia, por ejemplo, se presta actualmente mayor atención a estos tipos de papel, y asimismo en los países en desarrollo de Africa, América Latina y Asia. En caso de que todos los planes se realicen, los países de economía de mercado en desarrollo producirán casi el 10 por ciento de la capacidad mundial de papel de impresión y escritura para 1984, en comparación con el 6,7 por ciento de diez años antes, lo que reduciría en cierta medida su dependencia de las importaciones de estas calidades de papel.

Cuadro 11 - Aumento de capacidad de otro papel de escritura e impresión  
1974-84

	Capacidad			Aumento total		Aumento anual medio	
	1974	1979	1984	1974-79	1979-84	1974-79	1979-84
	millares de toneladas			métricas		porcentaje	
Total mundial	36 859	44 848	53 807	7 989	8 959	4,0	3,7
Econ. merc. desarrolladas	31 015	36 222	42 649	5 207	6 427	3,2	3,2
América del Norte	13 726	15 662	17 953	1 936	2 291	2,7	2,8
Japón	3 080	4 405	5 911	1 325	1 506	7,4	6,1
Europa Occidental	13 777	15 665	18 244	1 888	2 579	2,6	3,1
Oceanía	261	274	303	13	29	1,0	2,0
Otras	171	216	238	45	22	4,8	2,0
Econ. merc. en desarrollo	2 500	3 626	5 231	1 126	1 605	7,7	7,6
África	173	228	376	55	148	5,7	10,5
América Latina	1 250	1 688	2 309	438	621	6,2	6,5
Asia	1 077	1 710	2 545	633	836	9,7	8,3
Econ. centralmente planif.	3 344	5 000	5 927	1 656	927	8,4	3,5
Asia	1 279	2 417	2 790	1 138	373	13,6	2,9
Europa Oriental	865	1 133	1 437	268	304	5,5	4,9
U.R.S.S.	1 200	1 450	1 700	250	250	3,9	3,2

Proporción entre la capacidad de producción de pasta para papel y la capacidad de producción de papel y cartón

Durante casi 15 años, la relación entre la capacidad de fabricación de pasta y la de papel y cartón ha ido disminuyendo constantemente, lo cual refleja sin duda la mayor utilización de papel de desecho en la fabricación de papel y cartón. Los resultados de la presente encuesta señalan una divergencia todavía mayor entre el crecimiento de producción de pasta y papel, lo cual se deba, en parte, posiblemente a la modificación introducida en la forma de calcular la capacidad de pasta en Suecia, con la consiguiente disminución evidente en la relación pasta/papel. En el cuadro siguiente se presentan las cifras pertinentes.

	<u>Razón pasta/papel</u> <u>por ciento</u>
1965	81,8
1970	80,5
1975	77,8
1979 (a)	77,1
1980 (a)	77,2
1981 (a)	76,6
1982 (a)	76,6
1983 (a)	76,5
1984 (a)	76,1

(a) Pronóstico de la encuesta 1979-84

Comparación con las encuestas anteriores

La tendencia a un futuro crecimiento en continua disminución respecto a la capacidad de producción de pasta y papel, advertido en las últimas cuatro encuestas, ha sido definitivamente frenada. En el cuadro siguiente y en el Anexo 9 se cotejan las encuestas anteriores y se dan también detalles relativos a 1969/74 para indicar la ocasión más reciente en la que la magnitud de la divergencia entre capacidad adicional de pasta y la de papel alcanzó proporciones considerables.

<u>Período de la encuesta</u>	<u>Aumento total en el período</u>	
	<u>Total pasta para papel</u>	<u>Total Papel y Cartón</u>
	- millones de toneladas - métricas	
1969-74	26,1	37,5
1974-79 (a)	26,7	33,3
1975-80	25,4	31,1
1976-81	23,3	28,1
1977-82	21,0	27,4
1978-83 (b)	19,2	26,6
1979-84 (b)	20,5	29,4

- (a) Hechas las enmiendas de nueve países, a saber: Canadá, Estados Unidos, Brasil, Finlandia, Francia, República Federal de Alemania, Suecia, Reino Unido y Japón;
- (b) No comparable con encuestas anteriores al 1978-83.

Se indica a continuación la capacidad adicional total prevista en los períodos comprendidos en las últimas cuatro encuestas para los principales tipos de papel, pasta, papel y cartón. Por los motivos ya explicados en la página 1 del informe del año anterior hay una laguna en la comparabilidad de los datos entre las encuestas de 1977-82 y 1978-83.

	<u>Encuesta</u> 1976-81	<u>Encuesta</u> 1977-82	<u>Encuesta</u> 1978-83	<u>Encuesta</u> 1979-84
	- - - - millares de toneladas métricas - - - -			
Total pasta de madera	21 134	19 147	17 066	18 078
del cual:				
mecánica (a)	4 348	4 097	4 819	5 686
semiquímica (b)	1 477	1 288	1 135	1 220
química	15 309	13 762	11 112	11 172
Otra pasta de fibra	2 147	1 820	2 116	2 406
Total papel y cartón	28 077	27 363	26 590	29 358
del cual:				
papel para periódicos	4 655	4 624	5 552	6 852
otro de escritura e impresión	6 911	6 716	6 751	8 959
otro papel y cartón	16 511	16 023	14 287	13 547
- de envolver y empaquetar	13 161	12 435	10 820	10 785

- (a) incluso pasta termomecánica
- (b) incluso pasta quimiomecánica

En el Anexo 10 se ilustra por productos y regiones la cantidad de producción efectivamente obtenida entre 1974 y 1979 y las adiciones previstas en los cinco años siguientes. La importancia cada vez mayor de la pasta química es evidente en los países desarrollados y en los países en desarrollo de economía de mercado como evidente es la dependencia respecto de la pasta de otras fibras en las economías centralmente planificadas. En cuanto al papel y el cartón, el rápido aumento de la capacidad futura de papel para periódicos en los países desarrollados y en desarrollo no corre parejas con el de los países con economías centralmente planificadas. El papel de impresión y el de escritura constituyen también una característica importante de la expansión industrial de los países en desarrollo.

ANNEXES

CAPACITY FOR 1979		PAPER PULP										PAPER AND PAPERBOARD				
		TOTAL		WOOD PULP			OTHER FIBRE PULP		DISSOLVING PULP	TOTAL	NEWSPRINT	PRINTING WRITING	TOTAL			
		1 + 2	1	MECH.	SEMI-CHEM.	CHEMICAL	2	3					4	4.1	4.2	4.3	4.32
REGION /	CODE			1.1	1.2	1.3										
WORLD TOTAL:		148 054	137 049	29 155	10 523	93 499	11 005	6 023	192 174	27 215	44 848	120 111	88 956			
of which:																
DEVELOPED MARKET ECONOMIES		115 901	114 148	24 051	8 914	77 346	1 753	3 937	150 701	22 725	36 222	91 754	69 213			
of which:																
NORTHERN AMERICA		68 727	68 012	12 192	4 647	49 665	715	1 788	75 340	12 748	15 662	46 930	37 231			
JAPAN		12 381	12 377	1 528	1 919	8 123	4	479	21 453	2 707	4 405	14 341	10 544			
WESTERN EUROPE		31 767	30 850	9 325	1 793	18 334	917	1 353	50 353	6 491	15 665	28 197	19 804			
- E. E. C.		6 789	6 248	3 021	705	2 499	541	407	27 518	1 870	9 515	16 133	9 930			
- NORDIC COUNTRIES		20 040	20 040	5 405	860	12 490	-	655	15 150	3 875	3 820	7 455	6 155			
- REST OF W. E.		4 938	4 562	899	228	3 345	376	291	7 685	746	2 330	4 609	3 719			
OCEANIA		2 192	2 186	745	393	924	7	-	2 300	543	274	1 483	1 323			
OTHERS		833	723	261	162	300	110	317	1 255	236	216	803	311			
DEVELOPING MARKET ECONOMIES		9 692	6 517	955	592	4 925	3 176	230	15 025	1 372	3 626	10 027	8 375			
of which:																
AFRICA		568	377	27	10	340	191	-	720	24	228	468	429			
LATIN AMERICA		6 154	4 924	515	488	3 931	1 220	60	8 601	707	1 688	6 206	4 965			
ASIA		2 971	1 208	413	94	664	1 765	170	5 704	641	1 710	3 353	2 981			
CENT. PLANNED ECONOMIES		22 460	16 384	4 149	1 017	11 218	6 076	1 861	26 448	3 118	5 000	18 230	11 368			
of which:																
ASIA		7 879	2 561	942	-	1 619	5 318	40	8 955	950	2 417	5 588	27			
EASTERN EUROPE		4 031	3 773	957	417	2 399	258	496	5 993	468	1 133	4 392	3 801			
U.S.S.R.		10 550	10 050	2 250	600	7 200	500	1 325	11 500	1 700	1 450	8 350	7 540			

1 000 metric tons

Other paper & paperboards

CAPACITY FOR 1980		PAPER PULP							PAPER AND PAPERBOARD			
REGION / CODE	TOTAL	WOOD PULP			OTHER FIBRE PULP	DISSOLVING PULP	TOTAL	NEWSPRINT	PRINTING WRITING	TOTAL		
	1 + 2	TOTAL	MECH.	SEMI-CHEM						CHEMICAL	4	4.1	4.2	4.3	4.32
		1	1.1	1.2	1.3	2	3	4	4.1	4.2	4.3	4.32
WORLD TOTAL:	152 942	141 130	29 338	10 643	96 105	11 812	6 076	198 216	28 425	46 938	122 853	91 803
of which:												
DEV'ED MARKET ECONOMIES	118 529	116 711	24 119	8 909	78 784	1 818	3 833	154 326	23 634	37 798	92 894	70 160
of which:												
NORTHERN AMERICA	70 506	69 727	12 114	4 624	50 779	779	1 733	77 607	13 383	16 414	47 810	37 909
JAPAN	12 577	12 573	1 529	1 921	8 159	4	479	21 602	2 866	4 736	14 000	10 002
WESTERN EUROPE	32 376	31 458	9 470	1 809	18 590	918	1 296	51 418	6 601	16 137	28 680	20 138
- E. E. C.	7 079	6 541	3 164	721	2 562	538	408	28 271	1 925	9 779	16 567	10 250
- NORDIC COUNTRIES	20 315	20 315	5 395	860	12 655	-	590	15 295	3 925	4 010	7 360	6 060
- REST OF W. E.	4 982	4 602	911	228	3 373	380	298	7 852	751	2 348	4 753	3 828
OCEANIA	2 208	2 201	738	393	934	7	-	2 371	545	289	1 537	1 373
OTHERS	862	752	268	162	322	110	325	1 328	239	222	867	738
DEV'ING MARKET ECONOMIES	10 963	7 236	1 025	646	5 500	3 727	259	16 441	1 593	3 965	10 883	9 104
of which:												
AFRICA	600	388	30	10	348	212	-	747	27	237	483	443
LATIN AMERICA	6 877	5 361	541	519	4 301	1 516	63	9 321	800	1 794	6 727	5 372
ASIA	3 486	1 487	454	117	851	1 999	196	6 373	766	1 934	3 673	3 289
CENT. PLANNED ECONOMIES	23 450	17 183	4 194	1 088	11 821	6 267	1 984	27 449	3 198	5 175	19 076	11 939
of which:												
ASIA	8 154	2 676	983	-	1 693	5 478	40	9 209	980	2 490	5 739	27
EASTERN EUROPE	4 291	4 027	961	438	2 628	264	544	6 240	468	1 185	4 587	3 987
U.S.S.R.	11 005	10 480	2 250	650	7 500	525	1 400	12 000	1 750	1 500	8 750	7 925

1 000 metric tons

Other

CAPACITY FOR 1981		PAPER PULP										DISSOLVING PULP	PAPER AND PAPERBOARD			
		TOTAL		WOOD PULP			OTHER FIBRE PULP		TOTAL	NEWSPRINT	PRINTING WRITING		Other			
		1 + 2	1	MECH.	SEMI-CHEM.	CHEMICAL	2	3					4	4.1	4.2	4.3	4.32
REGION /	CODE			1.1	1.2	1.3										
WORLD TOTAL:		157 186	144 942	29 568	11 047	98 251	12 244	6 200	205 300	30 117	49 006	126 177	93 838			
of which:																
DEVELOPED MARKET ECONOMIES		121 364	119 532	24 283	9 006	80 374	1 832	3 884	159 400	25 108	39 339	94 953	71 808			
of which:																
NORTHERN AMERICA		72 134	71 337	12 142	4 656	51 608	797	1 759	79 973	14 284	16 966	48 723	38 718			
JAPAN		12 781	12 777	1 529	1 935	8 323	4	479	22 601	2 986	5 163	14 452	10 323			
WESTERN EUROPE		33 244	32 330	9 505	1 859	19 187	914	1 301	52 841	6 838	16 690	29 313	20 604			
E. E. C.		7 234	6 702	3 163	731	2 709	532	411	29 017	1 972	10 123	16 922	10 542			
- NORDIC COUNTRIES		20 915	20 915	5 430	900	12 995	-	585	15 755	4 075	4 175	7 505	6 145			
- REST OF W. E.		5 095	4 713	912	228	3 483	382	305	8 069	791	2 392	4 886	3 917			
OCEANIA		2 245	2 238	741	394	934	7	-	2 461	585	292	1 584	1 413			
OTHERS		960	850	366	162	322	110	345	1 524	415	228	881	750			
DEVELOPING MARKET ECONOMIES		11 573	7 617	1 044	877	5 584	3 956	260	17 517	1 731	4 242	11 544	9 658			
of which:																
AFRICA		685	467	30	10	427	218	-	774	27	253	494	451			
LATIN AMERICA		7 105	5 513	547	550	4 416	1 592	64	9 754	859	1 848	7 047	5 596			
ASIA		3 783	1 637	467	317	741	2 146	196	6 989	845	2 141	4 003	3 611			
CENT. PLANNED ECONOMIES		24 249	17 793	4 241	1 164	12 293	6 456	2 056	28 383	3 278	5 425	19 680	12 372			
of which:																
ASIA		8 424	2 786	1 023	-	1 763	5 638	40	9 459	1 010	2 560	5 889	27			
EASTERN EUROPE		4 430	4 162	968	464	2 730	268	541	6 424	468	1 315	4 641	4 035			
U.S.S.R.		11 395	10 845	2 250	700	7 800	550	1 475	12 500	1 800	1 550	9 150	8 310			

1 000 metric tons

CAPACITY FOR 1982		PAPER PULP										PAPER AND PAPERBOARD			
		TOTAL		WOOD PULP			OTHER FIBRE PULP		DISSOLVING PULP	TOTAL	NEWSPRINT	PRINTING WRITING	TOTAL		
		1 + 2	1	MECH.	SEMI-CHEM.	CHEMICAL	2	3					4	4.1	4.2
REGION /	CODE	1 000 metric tons													
WORLD TOTAL:		162 620	149 992	29 928	11 255	101 338	12 628	6 292	212 401	31 827	50 970	129 604	96 448		
of which:															
DEVELOPED MARKET ECONOMIES		124 899	123 065	24 523	9 267	82 099	1 834	3 905	164 265	26 450	40 796	97 019	73 385		
of which:															
NORTHERN AMERICA		74 403	73 604	12 204	4 870	52 739	799	1 769	82 220	14 984	17 321	49 915	39 698		
JAPAN		13 183	13 179	1 529	1 949	8 633	4	479	23 446	3 130	5 501	14 815	10 587		
WESTERN EUROPE		33 949	33 035	9 668	1 882	19 471	914	1 301	54 374	7 170	17 443	29 761	20 893		
- E. E. C.		7 363	6 831	3 186	744	2 802	532	411	29 722	2 124	10 457	17 141	10 666		
- NORDIC COUNTRIES		21 430	21 430	5 570	910	13 125	-	585	16 490	4 235	4 585	7 670	6 275		
- REST OF W. E.		5 156	4 774	912	228	3 544	382	305	8 162	811	2 401	4 950	3 952		
OCEANIA		2 389	2 382	741	404	934	7	-	2 639	725	296	1 618	1 443		
OTHERS		975	865	381	162	322	110	356	1 586	441	235	910	764		
DEVELOPING MARKET ECONOMIES		12 539	8 405	1 063	766	6 391	4 134	261	18 736	1 975	4 579	12 182	10 177		
of which:															
AFRICA		953	730	35	50	645	223	-	925	82	315	528	482		
LATIN AMERICA		7 549	5 911	556	589	4 701	1 638	65	10 350	1 013	1 982	7 355	5 807		
ASIA		4 037	1 764	472	127	1 045	2 273	196	7 461	880	2 282	4 299	3 888		
CENT. PLANNED ECONOMIES		25 182	18 522	4 342	1 222	12 848	6 660	2 126	29 400	3 402	5 595	20 403	12 886		
of which:															
ASIA		8 745	2 932	1 084	-	1 848	5 813	40	9 166	1 079	2 645	6 042	30		
EASTERN EUROPE		4 612	4 340	968	472	2 900	272	536	6 634	473	1 350	4 811	4 161		
U.S.S.R.		11 825	11 250	2 290	750	8 100	575	1 550	13 000	1 850	1 600	9 550	8 695		

CAPACITY FOR 1983			PAPER PULP										PAPER AND PAPERBOARD			
REGION / CODE	TOTAL		WOOD PULP			OTHER FIBRE PULP	DISSOLVING PULP	TOTAL	NEWSPRINT	PRINTING WRITING	TOTAL		WRAPPING			
	1 + 2	1	MECH.	SEMI-CHEM.	CHEMICAL						4	4.1		4.2	4.3	4.3.2
1 000 metric tons																
WORLD TOTAL:	166 367	153 330	30 160	11 590	103 344	13 037	6 399	217 568	33 062	52 510	131 996	98 408				
of which:																
DEVELOPED MARKET ECONOMIES	126 601	124 765	24 632	9 513	82 835	1 836	3 915	167 256	27 259	41 873	98 124	74 273				
of which:																
NORTHERN AMERICA	75 396	74 597	12 285	5 110	53 192	801	1 774	83 157	15 195	17 615	50 347	40 086				
JAPAN	13 523	13 519	1 529	1 949	8 873	4	479	24 294	3 296	5 794	15 204	10 878				
WESTERN EUROPE	34 288	33 374	9 684	1 887	19 499	914	1 306	55 519	7 592	17 927	30 000	21 068				
- E. E. C.	7 374	6 842	3 197	744	2 802	532	411	29 946	2 131	10 587	17 228	10 726				
- NORDIC COUNTRIES	21 750	21 750	5 575	915	13 145	-	590	17 375	4 630	4 935	7 810	6 390				
- REST OF W. E.	5 164	4 782	912	228	3 552	382	305	8 198	831	2 405	4 962	3 952				
OCEANIA	2 407	2 400	743	405	949	7	-	2 677	725	300	1 652	1 473				
OTHERS	985	875	391	162	322	110	356	1 609	451	237	921	768				
DEVELOPING MARKET ECONOMIES	13 665	9 316	1 110	802	7 073	4 349	281	20 005	2 309	4 849	12 847	10 792				
of which:																
AFRICA	1 048	825	36	58	731	223	-	1 095	93	329	673	626				
LATIN AMERICA	8 423	6 607	562	617	5 217	1 816	65	11 085	1 275	2 156	7 654	6 063				
ASIA	4 194	1 884	512	127	1 125	2 310	216	7 825	941	2 364	4 520	4 103				
CENT. PLANNED ECONOMIES	26 101	19 249	4 418	1 275	13 436	6 852	2 203	30 307	3 494	5 788	21 025	13 343				
of which:																
ASIA	9 025	3 049	1 128	-	1 921	5 976	40	10 026	1 116	2 718	6 192	30				
EASTERN EUROPE	4 831	4 555	965	475	3 115	276	538	6 781	478	1 420	4 883	4 233				
U.S.S.R.	12 245	11 645	2 325	800	8 400	600	1 625	13 500	1 900	1 650	9 950	9 080				

CAPACITY FOR 1984		PAPER PULP										PAPER AND PAPERBOARD			
REGION / CODE	TOTAL 1 + 2	WOOD PULP			OTHER FIBRE PULP 2	DISSOLVING PULP 3	TOTAL 4	NEWSPRINT 4.1	PRINTING WRITING 4.2	TOTAL 4.3	WRAPPING 4.32				
		TOTAL 1	MECH. 1.1	SEMI-CHEM 1.2								CHEMICAL 1.3			
WORLD TOTAL:	168 538	155 127	30 251	11 743	13 411	6 466	221 532	34 067	53 807	133 658	99 741				
of which:															
DEV'ED MARKET ECONOMIES	127 180	125 344	24 627	9 518	1 836	3 920	169 440	28 067	42 649	98 724	74 736				
of which:															
NORTHERN AMERICA	75 737	74 936	12 285	5 110	801	1 774	83 595	15 295	17 953	50 347	40 086				
JAPAN	13 523	13 519	1 529	1 949	4	479	24 996	3 644	5 911	15 441	11 056				
WESTERN EUROPE	34 513	33 599	9 679	1 892	914	1 311	56 531	7 952	18 244	30 335	21 331				
- E. E. C.	7 379	6 847	3 202	744	532	411	30 298	2 176	10 704	17 418	10 859				
- NORDIC COUNTRIES	21 970	21 970	5 565	920	-	595	18 035	4 945	5 135	7 955	6 520				
- REST OF W. E.	5 164	4 782	912	228	382	305	8 198	831	2 405	4 962	3 952				
OCEANIA	2 422	2 415	743	405	7	-	2 703	725	303	1 675	1 493				
OTHERS	985	875	391	162	110	356	1 615	451	238	926	770				
DEV'ING MARKET ECONOMIES	14 535	10 003	1 130	900	4 532	281	20 956	2 420	5 231	13 305	11 223				
of which:															
AFRICA	1 127	889	37	66	238	-	1 193	104	376	713	665				
LATIN AMERICA	8 853	6 968	566	617	1 885	65	11 615	1 330	2 309	7 976	6 360				
ASIA	4 555	2 146	527	217	2 409	216	8 148	986	2 546	4 616	4 198				
CENT. PLANNED ECONOMIES	26 823	19 780	4 494	1 325	7 043	2 265	31 136	3 580	5 927	21 629	13 782				
of which:															
ASIA	9 302	3 164	1 171	-	6 138	40	10 285	1 152	2 790	6 343	31				
EASTERN EUROPE	4 846	4 566	963	475	280	525	6 851	478	1 437	4 936	4 286				
U. S. S. R.	12 675	12 050	2 360	850	625	1 700	14 000	1 950	1 700	10 350	9 465				

1 000 metric tons

HARDWOOD PULP CAPACITY  
IN SELECTED COUNTRIES, 1979-84

	Chemi-groundwood and Semi-chemical Hardwood Pulp (Code 1.31)					Bleached and Semi-bleached Sulphate and Soda Hardwood Pulp (Code 1.44.1)						
	1979	1980	1981	1982	1983	1984	1979	1980	1981	1982	1983	1984
Angola							37	37	37	37	37	37
Gabon									60	70	85	95
Morocco										125	150	175
Nigeria							91	95	95	95	95	95
South Africa	162	162	162	162	162	162	63	63	63	63	63	63
Tanzania										7	8	9
Canada							866	873	875	875	875	875
U.S.A.							7 437	7 586	7 636	7 701	7 757	7 824
Argentina	200	215	230	260	285	285	60	60	60	60	60	60
Brazil	147	147	151	151	151	151	1 451	1 652	1 718	2 084	2 118	2 135
Chile		5	11	13	13	13	3	3	20	20	20	20
Colombia		34	34	34	34	34	4	4	4	4	4	46
Peru							15	15	15	15	15	15
Uruguay							12	12	12	12	12	12
India	44	67	75	77	77	77	176	182	193	196	197	197
Iran												
Japan	1 804	1 806	1 819	1 832	1 832	1 832	3 835	3 864	3 931	4 090	4 239	4 239
Korea, Rep of												
Philippines								35	45	50	50	50
Turkey							61	61	61	61	89	206
Vietnam, Soc Rep	28	28	28	28	28	28				15	18	20
Austria	60	60	60	60	60	60						
Belgium							207	207	207	240	240	240
Bulgaria	90	90	90	90	90	90						
Czechoslovakia	127	127	127	127	127	127	4	14	14	109	109	109
Denmark	75	75	75	75	75	75						
Finland	350	350	360	360	360	360						
France	220	250	260	270	270	270	1 175	1 200	1 280	1 340	1 380	1 400
Germany, Fed Rep of	69	69	69	69	69	69	450	470	490	500	500	500
Hungary	63	65	65	65	65	65						
Norway	80	80	80	80	80	80						
Poland	88	107	133	141	144	144	6	52	65	73	73	73
Portugal							542	537	537	557	557	557
Romania							95	95	95	95	95	95
Spain							439	459	479	479	479	479
Sweden	395	395	445	455	460	465	880	880	880	880	880	880
United Kingdom	106	107	107	110	110	110						
Australia	268	268	269	279	280	280	111	111	111	111	116	116
New Zealand	53	53	53	53	53	53	15	15	15	15	15	15
TOTAL OF ABOVE COUNTRIES	4 507	4 604	4 747	4 875	4 917	5 020	18 035	18 582	18 998	20 029	20 412	20 707

MARKET PULP CAPACITY, PAPER GRADES

	Total Pulp, Paper Grades (Code 1 + 2)				Chemical Woodpulp (Code 1.4)			
	1979	1980	1981	1982	1979	1980	1981	1982
Developed Market Economies	22 817	23 339	23 667	24 042	20 521	21 015	21 408	21 608
Canada	6 717	6 864	6 916	7 227	6 452	6 596	6 631	6 767
U.S.A.	4 300	4 393	4 510	4 551	4 207	4 300	4 417	4 458
NORTHERN AMERICA	11 017	11 257	11 426	11 778	10 659	10 896	11 048	11 225
Japan	1 169	1 169	1 169	1 169	1 070	1 070	1 070	1 070
Austria	301	301	301	301	300	300	300	300
Belgium	207	207	207	240	207	207	207	240
Denmark	120	120	120	120	-	-	-	-
Finland	2 170	2 180	2 185	2 165	2 120	2 130	2 135	2 115
France	575	585	655	705	570	585	655	705
Germany, Fed Rep	186	184	185	185	177	175	176	176
Ireland	17	17	17	17	-	-	-	-
Norway	575	650	675	675	110	185	210	210
Portugal	545	678	683	723	545	678	683	723
Spain	561	581	601	601	467	487	507	507
Sweden	4 410	4 450	4 485	4 405	3 765	3 775	3 895	3 815
Switzerland	120	120	120	120	110	110	110	110
United Kingdom	25	25	25	25	25	25	25	25
WESTERN EUROPE	9 812	10 098	10 259	10 282	8 396	8 657	8 903	8 926
Australia	3	4	4	4	3	4	4	4
New Zealand	752	752	755	755	329	329	329	329
OCEANIA	755	756	759	759	332	333	333	333
South Africa	64	59	54	54	64	59	54	54

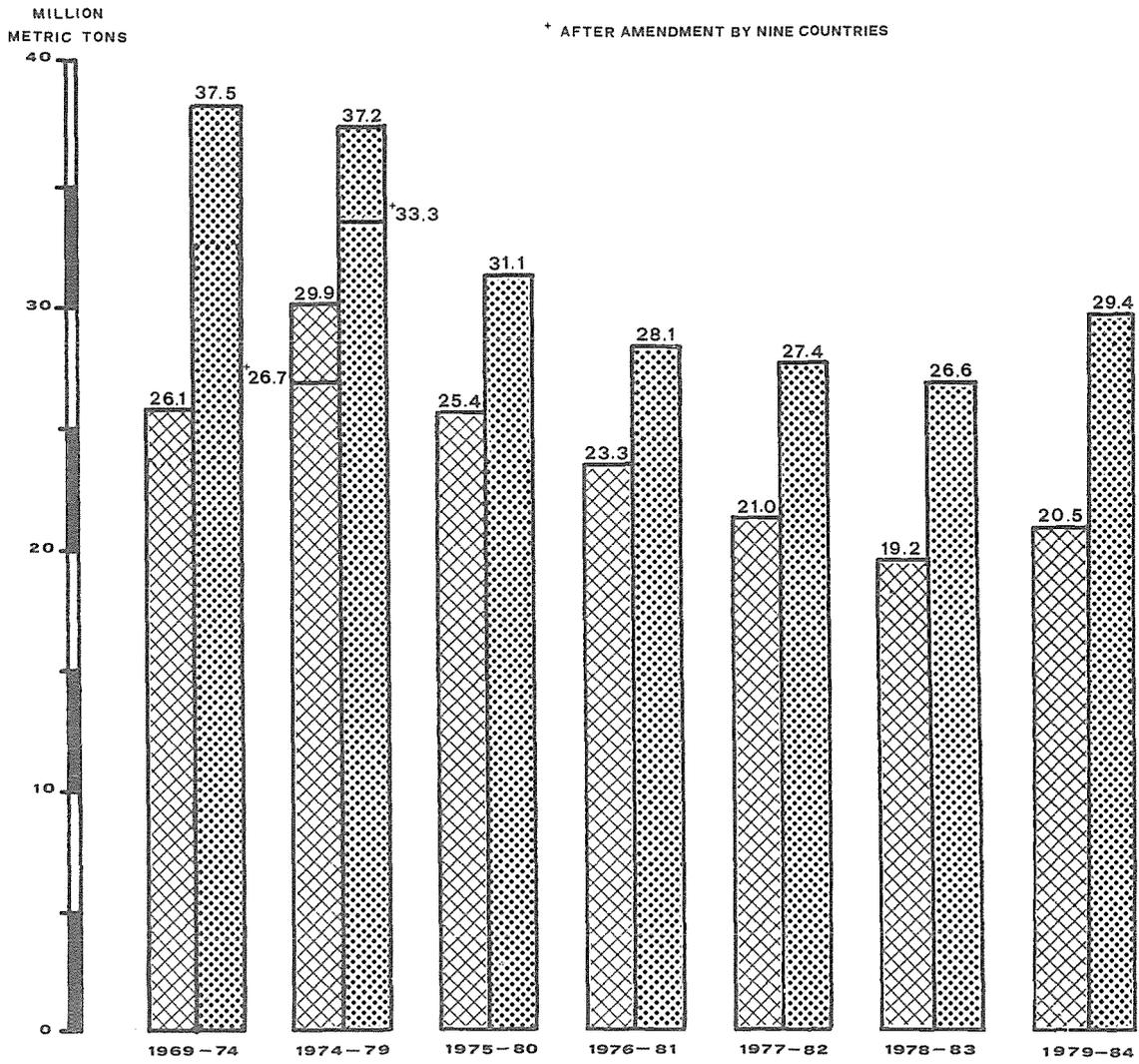
..... '000 metric tons air dry weight .....

## MARKET PULP CAPACITY, PAPER GRADES

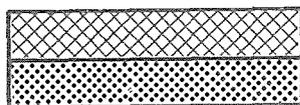
	Total Pulp, Paper Grades (Code 1 + 2)				Chemical Woodpulp (Code 1.4)			
	1979	1980	1981	1982	1979	1980	1981	1982
<u>Developing Market Economies</u>	2 095	2 457	2 550	2 895	1 869	2 160	2 233	2 567
Algeria	44	44	44	44	--	--	--	--
Angola	32	32	32	32	32	32	32	32
Cameroon	--	--	60	70	--	--	60	70
Egypt	18	18	18	18	--	--	--	--
Gabon	--	--	--	125	--	--	--	125
Morocco	91	95	95	95	91	95	95	95
Swaziland	160	164	168	175	160	164	168	175
Tunisia	7	7	7	7	--	--	--	--
	352	360	424	566	283	291	355	497
<u>AFRICA</u>								
Argentina	25	25	30	160	10	10	15	145
Brazil	1 232	1 442	1 591	1 643	1 150	1 289	1 418	1 459
Chile	430	459	299	299	426	455	295	295
Mexico	--	--	--	--	--	--	--	--
Paraguay	--	--	--	--	--	--	--	--
	1 687	1 926	1 920	2 102	1 586	1 754	1 728	1 899
<u>LATIN AMERICA</u>								
Bangladesh	--	--	--	--	--	--	--	--
India	25	25	25	25	--	--	--	--
Korea, Rep of	13	83	103	118	--	70	90	105
Philippines	18	63	78	84	--	45	60	66
	56	171	206	227	--	115	150	171
<u>ASIA</u>								
	2 078	2 229	2 329	2 530	2 001	2 151	2 251	2 452
<u>Centrally Planned Economies</u>								
Bulgaria	123	123	123	123	50	50	50	50
Czechoslovakia	217	267	267	368	214	264	264	365
Hungary	1	2	2	2	--	--	--	--
Romania	37	37	37	37	37	37	37	37
	378	429	429	530	301	351	351	452
<u>EASTERN EUROPE</u>								
U.S.S.R.	1 700	1 800	1 900	2 000	1 700	1 800	1 900	2 000
<u>TOTAL OF COUNTRIES LISTED</u>	26 990	28 025	28 546	29 467	24 391	25 326	25 892	26 627

ANNEX 9

OVERALL INCREASE IN TOTAL PULP FOR PAPERMAKING AND TOTAL  
PAPER AND PAPERBOARD FROM THE FIRST TO THE LAST YEAR OF THE SURVEY



SURVEYS



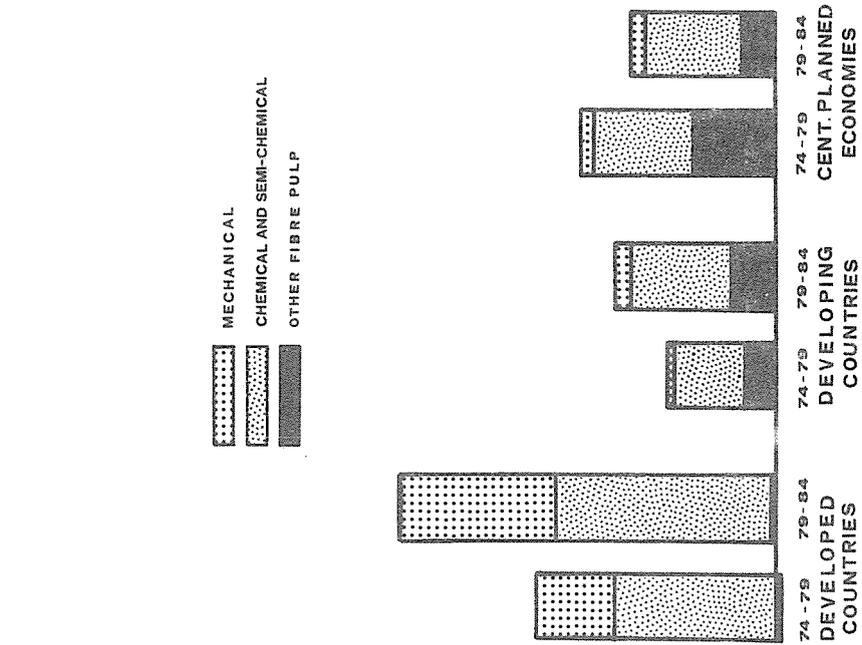
TOTAL PULP FOR PAPERMAKING

TOTAL PAPER AND PAPERBOARD

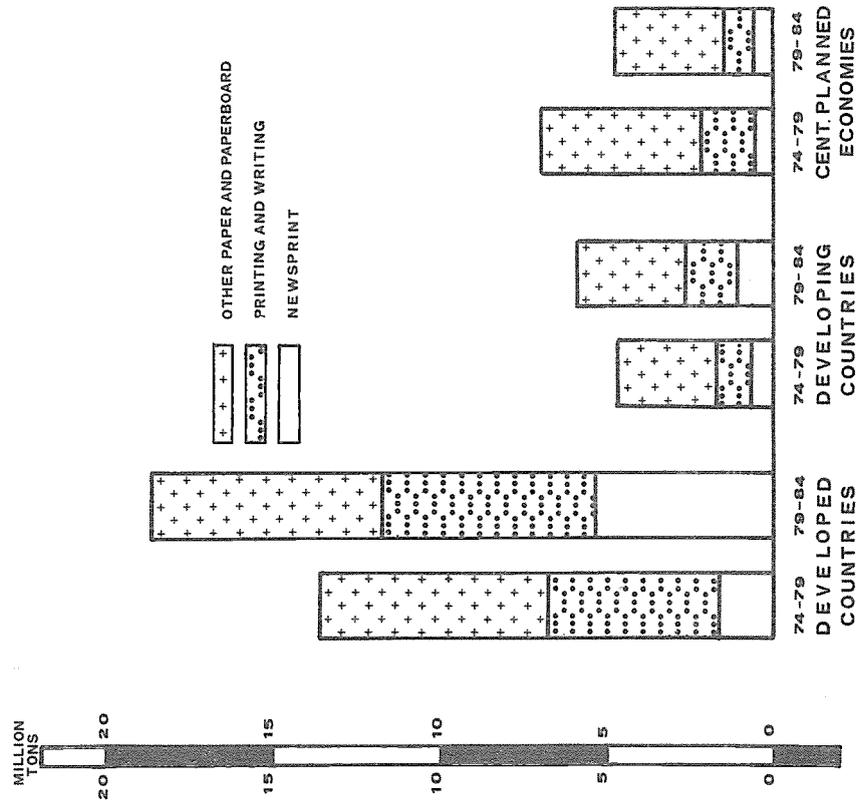
# ADDITIONS TO CAPACITY

ACTUAL INCREASES 1974-79 COMPARED TO ESTIMATED INCREASES 1979-84

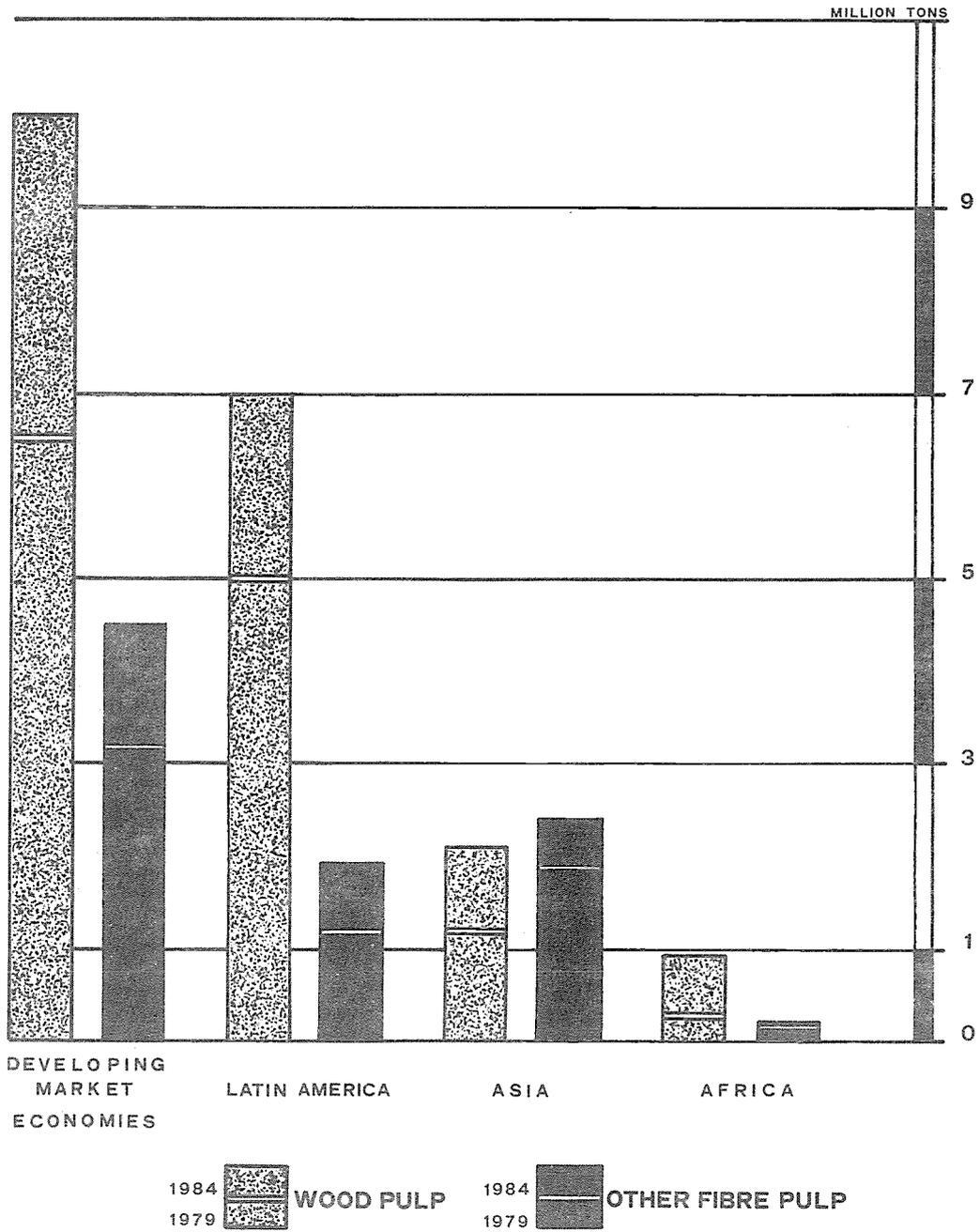
## PULP FOR PAPERMAKING



## PAPER AND PAPERBOARD



### THE IMPORTANCE OF OTHER FIBRE PULP IN DEVELOPING MARKET ECONOMIES



WORLD SURVEYS OF PULP AND PAPER CAPACITY AND PRODUCTION

DEFINITIONS

DEFINITION OF CAPACITY

Practical Maximum Capacity, as defined for the survey, is the tonnage of paper, paperboard or pulp of normal commercial quality that could be produced per year with full use of equipment and adequate supplies of raw materials and labour, and assuming full demand. No allowance is made for losses due to unscheduled shut downs, strikes, temporary lack of power, etc., which cause decreases in actual production, but not in production capacity.

Capacity of paper machines which produce more than one grade is apportioned in accordance with actual production patterns or plans for future operation.

Capacity is reported in metric tons of net finished paper and paperboard, and air-dry (10 % moisture content) pulp.

Changes in Capacity

- i) Increases in capacity for years 1, 2 and 3 of the survey should include committed plans for new machines, i.e. those underway, where ground has been broken, machinery ordered, financing obtained etc., as well as increases to existing machines. For years 4 and 5, include pulp and paper expansions which are under active consideration or seem likely to come on stream.
- ii) Changes in capacity should be included only for the portion of the year in which they are actually effective.
  - a) Additions to capacity.

For new mills and machines, data should reflect the fact that full capacity is only reached after a certain period of operation. For the first 12 months of operation, assume 70 % of capacity, the next 12 months 90 % and thereafter 100 %.
  - b) Reductions in capacity.

Capacity of machinery which has been closed down mainly for economic reasons, with no intention of resuming production, should be excluded.

DEFINITIONS OF PULP

MARKET PULP is pulp for sale in the open market and does not include pulp used in own plant or shipped to wholly owned or associated companies within the country. All pulp moving outside the producing country is considered to be MARKET PULP.

1. Wood Pulp for making Paper and Paperboard

<u>Survey Code</u>	<u>Grade</u>	<u>Definition</u>
1.1	Mechanical	Woodpulp, including reject pulp, obtained by grinding or milling into their fibres, coniferous or non-coniferous rounds, quarters, billets, etc. or through refining coniferous or non-coniferous chips. Called stone groundwood pulp and refiner groundwood pulp. It can be bleached or unbleached.
		<u>Exclude</u> thermo mechanical pulp defibrated, exploded and groundwood pulp for fibre (building) board
1.11	of which: non-coniferous	Mechanical pulp obtained from non-coniferous rounds, quarters, billets, chips, etc.
1.2	Thermo mechanical	Pulp produced by a mechanical process in which wood particles are softened by pre-heating under pressure prior to a pressurized refining stage.
1.21	of which: non-coniferous	Thermo mechanical pulp obtained from non-coniferous wood.
1.3	Chemi-mechanical and semi-chemical	Woodpulp, including reject pulp, obtained by subjecting coniferous or non-coniferous wood to a series of mechanical and chemical treatments, none of which alone is sufficient to make the fibres separate readily. According to the order and importance of the treatment, such pulp is variously named: semi-chemical, chemi-groundwood, chemi-mechanical, etc. These combined processes enable more of the lignin and hemi-cellulose constituents of the wood to be retained in the pulp and thus the proportion of pulp produced to the weight of wood used is often very high. It can be bleached or unbleached.
1.31	of which: non-coniferous	Chemi-mechanical and semi-chemical pulp obtained from non-coniferous wood.

<u>Survey Code</u>	<u>Grade</u>	<u>Definition</u>
	Sulphite pulp	Woodpulp, including rejects, obtained by mechanically reducing coniferous or non-coniferous wood to chips which are subsequently cooked in a pressure vessel in the presence of a bisulphite cooking liquor. Bisulphites such as ammonium, calcium, magnesium and sodium, are commonly used.  <u>Exclude</u> dissolving grades having very high alpha cellulose content (usually 90% or more). These should be included in codes 3 and 3.1.
1.41	Unbleached sulphite	Sulphite pulp which has not been bleached.
1.41.1	of which: non-coniferous	Unbleached sulphite pulp obtained from non-coniferous wood.
1.42	Bleached and semi-bleached sulphite	Sulphite pulp which has been bleached or partly bleached.
1.42.1	of which: non-coniferous	Bleached and semi-bleached sulphite pulp obtained from non-coniferous wood.
	Sulphate and soda pulp	Woodpulp, including rejects, obtained by mechanically reducing coniferous or non-coniferous wood to chips which are subsequently cooked in a pressure vessel in the presence of sodium hydroxide cooking liquor (soda pulp) or a mixture of sodium hydroxide and sodium sulphide cooking liquor (sulphate pulp).  <u>Exclude</u> dissolving grades having very high alpha cellulose content (usually 90% or more). These should be included in codes 3 and 3.1.
1.43	Unbleached sulphate and soda	Sulphate and soda pulp which has not been bleached.
1.43.1	of which: non-coniferous	Unbleached sulphate and soda pulp obtained from non-coniferous wood.
1.44	Bleached and semi-bleached sulphate and soda	Sulphate and soda pulp which has been bleached or partly bleached.
1.44.1	of which: non-coniferous	Bleached sulphate and soda pulp obtained from non-coniferous wood.

2. Other Fibre Pulp for making Paper and Paperboard

<u>Survey Code</u>	<u>Grade</u>	<u>Definition</u>
2.1	Straw	Pulp obtained from straw by any method. It may be bleached.
2.2	Bagasse	Pulp obtained from residue from processing sugar cane by any method. It may be bleached.
2.3	Bamboo	Pulp obtained from bamboo by any method. It may be bleached.
2.4	Other (reeds, esparto, rags, etc.)	Includes pulp obtained by any method from such materials as esparto and other reeds or grass, cotton linters, flax, hemp, rags, other textile wastes. It may be bleached.  <u>Exclude</u> dissolving grades. These should be included in code 3.  pulp made from waste paper

3. Dissolving Pulp (Wood and other fibrous raw materials)

3.	Dissolving pulp (wood and other fibrous raw materials)	Highly bleached chemical pulp (sulphate, soda or sulphite) from coniferous or non-coniferous wood, rags, cotton linters, etc., of special quality, with a very high alpha cellulose content (usually 90% and over) readily adaptable for uses other than papermaking.  They are used principally as a source of cellulose in the manufacture of products such as man-made fibres, cellulosic plastic materials, lacquers, explosives, etc.
3.1	of which: non-coniferous	Dissolving pulp made from non-coniferous wood.

DEFINITIONS OF PAPER AND PAPERBOARD

The products included under this heading are in rolls, strips or sheets. The rolls and strips exceed 15 cm in width and the sheets have no side less than 36 cm.

Exclude paper and paperboard cut to any shape other than rectangular.

4. Paper and Paperboard

<u>Survey Code</u>	<u>Grade</u>	<u>Definition</u>
4.1	Newsprint	Uncoated paper, unsized (or only slightly sized), containing at least 65 % mechanical or thermo mechanical wood pulp (percent of fibrous content), of the type used mainly for the printing of newspapers, usually weighing not less than 40 g/m <sup>2</sup> and generally not more than 57 g/m <sup>2</sup> .  <u>Include</u> rotonews
4.2	Other printing and writing paper	Paper, except newsprint, suitable for printing, writing or other graphic purposes, made from a variety of pulp blends and with various finishes. It may be uncoated and have been subjected to sizing, calendering, supercalendering, glazing, water-marking or similar simple finishing processes, or it may be coated on one or both sides with coating material such as barium sulphate, clay (beneficiated kaolin), gypsum or zinc oxide, often supplemented with supercalendering, etc.  <u>Include</u> such papers as:  bank note bible or imitation bible book and magazine box lining and covering bristols calculator papers computer paper duplicating envelope stock folder stock label lithograph manifold offset onionskin photographic base paper poster stationery tablet or block tabulating card stock typewriter

<u>Survey Code</u>	<u>Grade</u>	<u>Definition</u>
4.21	Coated	Printing and writing papers, except newsprint, which have been coated on one or both sides with coating materials such as clay (beneficiated kaolin), barium sulphate, gypsum or zinc oxide, often supplemented with supercalendering, etc.  <u>Include</u> coated paper produced at the paper mill from base paper manufactured for own use or purchased, together with all paper made and coated in a single operation on the papermaking machine.
	of which:	
4.21.1	Wood containing	Coated printing and writing papers, containing 10 % or more mechanical wood pulp.
4.21.2	Woodfree	Coated printing and writing papers, containing less than 10 % mechanical wood pulp.
4.22	Uncoated	Printing and writing papers, except newsprint, which have been subjected to sizing, calendering, supercalendering, glazing, water marking or similar simple finishing processes, but not to coating.  <u>Exclude</u> coating base paper for own use or for sale to other paper mills.
	of which:	
4.22.1	Wood containing	Uncoated printing and writing papers, except newsprint, containing 10 % or more mechanical woodpulp.
4.22.2	Woodfree	Uncoated printing and writing papers, except newsprint, containing less than 10 % mechanical woodpulp.
4.31	Household and sanitary paper	Absorbent paper, creped or uncreped, sometimes embossed, made from bleached or unbleached pulps, waste paper or combination of these. This type of paper should be sufficiently strong to avoid disintegration or tearing in use. Other important characteristics are high absorptive capacity, retention of absorbed fluids, softness, freedom from lint and unpleasant odours. It is made in white and a variety of colours and in single, double or more plies.  <u>Include</u> types of creped and uncreped papers such as: disposable tissues facial tissue napkin sanitary wadding toilet tissue towelling wiper stock

<u>Survey Code</u>	<u>Grade</u>	<u>Definition</u>
4.32	Wrapping and packaging paper and paperboard	Paper and paperboard designed for wrapping and packaging purposes made from pulps, waste paper and any combination of these.
4.32.1	Linerboard	Paperboard made either from sulphate pulp (unbleached or bleached) or principally from waste paper used as facing material on corrugated or solid paper or paperboard boxes and containers.
4.32.11	Kraft liner	Linerboard made wholly or principally of bleached or unbleached sulphate pulp
4.32.11.1	Unbleached	Kraft liner made wholly or principally of unbleached sulphate pulp. <u>Include</u> mottled kraft liner
4.32.11.2	Bleached	Kraft liner made wholly or principally of bleached sulphate pulp. <u>Include</u> white lined Kraft liner
4.32.12	Other linerboard	Linerboard other than Kraft liner
4.32.2	Fluting medium	Paper or paperboard used mainly as a corrugating medium in the production of corrugated board. It may be produced wholly or principally from semi-chemical wood pulp or from other materials.
4.32.21	Semi-chemical	Fluting medium made wholly or principally of semi-chemical woodpulp
4.32.22	Other fluting medium	Fluting medium other than semi-chemical
4.32.3	Kraft wrapping and packaging paper	All other papers made wholly or principally from bleached and unbleached sulphate pulp used in the manufacture of single or multi-wall sacks or for other wrapping and packaging purposes.
4.32.31	Sack kraft	Bleached and unbleached kraft wrapping and packaging paper used in the manufacture of single or multi-wall sacks.
4.32.32	Other kraft wrapping and packaging paper	Bleached and unbleached kraft wrapping and packaging papers, other than sack kraft.

<u>Survey Code</u>	<u>Grade</u>	<u>Definition</u>
4.32.4	Folding boxboard	<p>Paperboard with good stiffness, scoring and folding characteristics. These paperboards are made from pulp, waste paper or any combination of these. They may be plain or coloured throughout the mass, solid, single or multi-ply, coated or uncoated. They include folding, milk carton and food service boxboard.</p> <p><u>Include</u> such folding boxboard as:</p> <ul style="list-style-type: none"><li>white or coloured lined duplex and triplex</li><li>solid bleached board</li><li>chipboard (plain or coloured)</li><li>folding unbleached kraft board</li></ul> <p><u>Exclude</u> non-folding board for shipping cases, which is included in code 4.32.52</p>
4.32.41	Pulp based	<p>These folding boxboards are made wholly from chemical pulp or from a combination of chemical and mechanical and/or thermo mechanical pulps.</p>
4.32.41.1	Bleached chemical pulp based	<p>These folding boxboards may be either single-ply boards of bleached chemical pulp or multi-ply boards with bleached chemical pulp on both sides.</p>
4.32.41.2	Other pulp based	<p>These folding boxboards are either single-ply, made from an unbleached pulp furnish, or multi-ply, made from a combination of chemical and mechanical and/or thermo mechanical pulps.</p> <p><u>Exclude</u> multi-ply boards with bleached chemical pulp on both sides which are included in code 4.32.41.1</p>
4.32.42	Waste paper based	<p>Folding boxboard manufactured from waste paper or a combination of waste paper and pulp.</p>
4.32.5	Other wrapping and packaging paper and paperboard	<p>Paper and paperboard designed for wrapping and packaging purposes, not included elsewhere.</p>
4.32.51	Other Wrapping paper	<p>Papers such as:</p> <ul style="list-style-type: none"><li>i) vegetable parchment, greaseproof and glassine</li></ul> <p>Papers made from chemical pulps or from mixtures of chemical woodpulp, cotton fibre pulp treated (e.g. highly hydrated or hard beaten) to render the resulting paper resistant to oil, grease and water. The papers are used primarily for packaging of frozen, moist or greasy materials like butter, margarine, meat or fish, as pan liners, release paper, sterilising bags, parchmentising stock and imitations of parchment.</p> <p><u>Exclude</u> papers that have been rendered greaseproof or waterproof by coating, impregnating or similar processes after manufacture of the paper.</p>

<u>Survey Code</u>	<u>Grade</u>	<u>Definition</u>
4.32.51	cont.	ii) wrapping and packaging papers not included under i) or under code 4.32.32
4.32.52	Other packaging Paperboard	Packaging paperboard not included under codes 4.32.11, 4.32.12, 4.32.41 and 4.32.42  <u>Include</u> straw paperboard non-folding board for shipping cases, set-up boxes, etc. board used in the manufacture of cores, tubes, cans and drums.  <u>Exclude</u> corrugated board which is considered as converted paperboard straw paper and paperboard used for corrugated boxes (which is included in 4.32.12 and 4.32.22)
4.33	Other paper and paperboard, not elsewhere specified	Paper and paperboard not used for packaging purposes manufactured principally from furnishes other than sulphate pulp and not included elsewhere
4.33.1	Paper	Papers such as:  i) special thin paper  These papers are made for special purposes, their common characteristics being their relative thinness. The papers included may be made from mechanical or chemical pulps, bleached or unbleached. The principal characteristics of some of these papers are uniformity of surface and caliper, freedom from pinholes, strength, close formation, opacity, low permeability and chemical purity, all related to special uses.  <u>Include</u> such special thin papers as: carbonising tissue condenser and capacitor paper electrical paper and tissue cigarette paper lens tissue stencil tissue pattern tissue tea bag paper  <u>Exclude</u> thin printing and writing papers such as: bible and imitation bible manifold onionskin airmail stationery stock

<u>Survey Code</u>	<u>Grade</u>	<u>Definition</u>
4.33.1	cont.	<p>ii) kraft paper used for waxing, asphaltting, water-proofing, laminating, impregnating, spinning or twisting, gumming, etc.</p> <p><u>Exclude</u> folding kraft board which is included in code 4.32.41.1</p> <p>iii) all other grades of paper not included under earlier headings</p> <p><u>Include</u> cable paper blotting paper filter paper rope and jute paper wallpaper base stock</p>
4.33.2	Paperboard	<p>Paperboards not included elsewhere, such as:</p> <p>i) construction paper and paperboard</p> <p>Papers, paper felts and paperboards used in the construction of buildings and other structures for insulation, vapour seal, roofing and flooring underlay etc. They are made from fully refined material such as woodpulp, waste paper, other vegetable pulp and mineral fibre. Low thermal conductivity, moisture resistance, fire resistance, permanency, insect and vermin resistance are desirable characteristics of these materials.</p> <p><u>Exclude</u> a) papers, paper felts or boards impregnated, saturated, laminated or further manufactured in any way (i.e. converted).</p> <p>b) fibreboard (fibre building board) in the form of insulating board, medium hardboard and hardboard.</p> <p>ii) all other grades of paperboard not included under earlier headings</p> <p><u>Include</u> beer mat board gasket board index pressboard matrix board panel board (automotive) press textile board shoe board transformer board trunk and suitcase board</p>

## DEFINITIONS

### DEFINITION DE CAPACITE

Aux fins de l'enquête, la capacité maximum pratique est égale au tonnage de papier, carton ou pâte de qualité commerciale normale que l'on peut produire annuellement en utilisant pleinement le matériel, en disposant de matières premières et de la main-d'oeuvre en quantité suffisante, étant admis qu'il existe une pleine demande. On ne tient pas compte des pertes dues à des fermetures imprévues, au grèves, à un manque temporaire de source d'énergie, etc., qui font baisser la production réelle mais non la capacité de production.

La capacité des machines à papier produisant plusieurs qualités est calculée en fonction des régimes de production réelle ou des prévisions concernant le fonctionnement futur.

La capacité est exprimée en tonnes de papier et carton finis nets et de pâte séchée à l'air (10% d'humidité).

### Changements de Capacité

- i) Augmentations de capacité pour les années 1, 2 et 3 de l'enquête doivent inclure projets définitifs pour l'installation de nouvelles machines, c'est-à-dire, des projets qui sont déjà en cours, dont les fondations ont été jetées, pour lesquels l'équipement a été commandé, ou pour lesquels les fonds ont été assurés etc. Inclure aussi les augmentations des machines existantes. Pour les années 4 et 5, à inclure des expansions de pâte et papier qui sont objets de considération active ou dont l'entrée en fonction est probable.
- ii) Les changements de capacité ne doivent figurer que pour la partie de l'année où il se produisent effectivement.
  - a) Additions

En ce qui concerne les nouvelles usines, les données doivent tenir compte du fait que la pleine capacité n'est atteinte qu'après un certain temps de fonctionnement. Pour les premiers 12 mois de marche, on comptera 70% de la capacité, pour les 12 mois suivants 90% et ensuite 100%.

- b) Réductions

Ne pas déclarer la capacité des machines qui ont été arrêtées pour des raisons essentiellement économiques, sans qu'on ait l'intention de reprendre la production.

DEFINITIONS DES PATES

La pâte marchande comprend la pâte destinée à être mise en vente sur le marché et ne comprend pas la pâte utilisée directement dans une usine intégrée ou destinée à des sociétés filiales ou associées à l'intérieur du pays. Toute pâte exportée en dehors du pays est considérée comme marchande.

1. Pâtes de bois pour la fabrication des papiers et cartons

<u>No. Code</u> <u>enquête</u>	<u>Produit</u>	<u>Définition</u>
1.1	Mécaniques	Pâtes (et pâtes de déchets) obtenues par le broyage ou le râpage (défibrage) de bois de conifères ou de non-conifères en rondins, morceaux, billes, etc. ou par le raffinage de copeaux de bois de conifères ou de non-conifères. Elles sont dites "pâtes de bois de râperie" et "Pâte mécanique de copeaux". Elles peuvent être blanchies ou non.  <u>Cette rubrique ne comprend pas</u>  la pâte thermo-mécanique les pâtes éclatées et défibrées entrant dans la fabrication des panneaux de fibres
1.11	dont: de bois de non-conifères	Pâtes mécaniques obtenues de bois de non-conifères
1.2	Thermo-mécaniques	Pâtes obtenues par un procédé mécanique dans lequel les particules sont amollies par un pré-chauffage sous pression avant le stade du raffinage sous pression
1.21	dont: de bois de non-conifères	Pâtes <b>thermo-mécaniques obtenues de bois non-conifères</b>
1.3	Chimico-mécaniques et mi-chimiques	Pâtes (et pâtes de déchets) obtenues en soumettant des bois de conifères ou de non-conifères à une série de traitements mécaniques et chimiques dont aucun n'est suffisant seul pour que les fibres se séparent aisément. Suivant l'ordre et l'importance des traitements, les pâtes sont dites mi-chimiques, mécanico-chimiques, chimico-mécaniques, etc. Ces procédés permettent de retenir dans la pâte une plus grande quantité de la lignine et de l'hémicellulose contenues dans le bois, de sorte que le rapport entre le poids de la pâte produite et le poids du bois utilisé est souvent très élevé. Elle peuvent être blanchies ou non.
1.31	dont: de bois de non-conifères	Pâtes chimico-mécaniques et mi-chimiques obtenues de bois de non-conifères.

<u>No. Code</u> <u>Enquête</u>	<u>Produit</u>	<u>Définition</u>
	au Bisulfite	Pâtes (et déchets de pâtes) obtenues en réduisant mécaniquement des bois de conifères ou de non-conifères en copeaux et en les cuisant ensuite sous pression avec une lessive de cuisson au bisulfite. Les bisulfites les plus communément utilisés sont ceux d'ammonium, de calcium, de magnésium et de sodium.  <u>Cette rubrique ne comprend pas</u>  les pâtes à dissoudre qui ont une très forte teneur en alpha-cellulose (en général 90% ou plus). Elles sont classées sous les rubriques 3 et 3.1.
1.41	au Bisulfite écru	Pâtes au bisulfite qui ne sont pas blanchies.
1.41.1	dont: de bois de non-conifères	Pâtes au bisulfite écru obtenues de bois de non-conifères.
1.42	au Bisulfite blanchies et mi-blanchies	Pâtes au bisulfite qui sont blanchies ou mi-blanchies.
1.42.1	dont: de bois de non-conifères	Pâtes au bisulfite blanchies ou mi-blanchies obtenues de bois de non-conifères.
	au Sulfate et à la soude	Pâtes (et déchets de pâtes) obtenues en réduisant mécaniquement des bois de conifères ou de non-conifères en copeaux et en les cuisant ensuite sous pression avec une lessive de cuisson à base de soude caustique (pour les pâtes à la soude) ou d'un mélange de soude caustique et de sulfate de sodium (pour les pâtes au sulfate).  <u>Cette rubrique ne comprend pas</u>  les pâtes à dissoudre qui ont une très forte teneur en alpha-cellulose (en général 90% ou plus). Elles sont classées sous les rubriques 3 et 3.1.
1.43	au Sulfate et à la soude écru	Pâtes au sulfate et à la soude qui ne sont pas blanchies.
1.43.1	dont: de bois de non-conifères	Pâtes au sulfate et à la soude écru obtenues de bois de non-conifères.
1.44	au Sulfate et à la soude blanchies ou mi-blanchies	Pâtes au sulfate et à la soude qui sont blanchies ou mi-blanchies.
1.44.1	dont: de bois de non-conifères	Pâtes au sulfate et à la soude blanchies ou mi-blanchies obtenues de bois de non-conifères.

2. Pâtes de matériaux végétaux fibreux autres que le bois pour la fabrication des papiers et cartons

<u>No. Code</u> <u>Enquête</u>	<u>Produit</u>	<u>Définition</u>
2.1	de Paille	Pâtes obtenues à partir de paille par n'importe quel procédé. Ces pâtes peuvent être blanchies.
2.2	de Bagasse	Pâtes obtenues à partir de résidus du traitement de la canne à sucre, par n'importe quel procédé. Ces pâtes peuvent être blanchies.
2.3	de Bambou	Pâtes obtenues à partir de bambou par n'importe quel procédé. Ces pâtes peuvent être blanchies.
2.4	Autres (roseaux, alfa, chiffons, etc.)	Pâtes obtenues par n'importe quel procédé à partir des matériaux tels que l'alfa, les roseaux et diverses autres matériaux herbacées, des linters de coton, le lin, le chanvre, les chiffons et autres déchets textiles. Ces pâtes peuvent être blanchies.

Cette rubrique ne comprend pas

les pâtes à dissoudre. Elles sont classées sous la rubrique 3.

Les pâtes obtenues de vieux papiers

3. Pâtes à dissoudre (de bois et d'autre matériaux végétaux)

3.	à Dissoudre (de bois et d'autres matériaux végétaux)	<p>Pâtes chimiques hautement blanchies (au sulfate, à la soude ou au bisulfite) de bois de conifères ou de non-conifères, de chiffons, de linters de coton, etc., de qualité spéciale, ayant une très forte teneur en alpha-cellulose (en général 90% ou plus) et se prêtant à des utilisations autres que la fabrication du papier.</p> <p>Elles sont principalement utilisées comme matière première cellulosique dans la fabrication de produits tels que les fibres artificielles, les matières plastiques cellulosiques, les laques, les explosifs, etc.</p>
3.1	dont: de bois de non-conifères	Pâtes à dissoudre obtenues de bois de non-conifères.

DEFINITIONS DES PAPIERS ET CARTONS

Dans ce groupe entrent les matériaux en feuilles, bandes ou rouleaux; les bandes ou rouleaux ont une largeur de plus de 15 cm et les feuilles ont plus de 36 cm de côté.

Ne pas déclarer les papiers et cartons de forme autre que rectangulaire.

<u>No. Code</u> <u>Enquête</u>	<u>Produit</u>	<u>Définition</u>
4.1	Papier journal	Papier non couché, non collé ou très légèrement, contenant au moins 65 % de pâte de bois mécanique ou thermo-mécanique (pourcentage en matière fibreuse), utilisé principalement pour l'impression des journaux, dont le grammage n'est généralement ni inférieur à 40 g/m <sup>2</sup> ni supérieur à 57 g/m <sup>2</sup> .

Cette rubrique comprend

papier pour impressions sur rotative

4.2	Autres papiers d'impression et d'écriture	Papiers autres que le papier journal, utilisés pour l'impression, l'écriture ou d'autres usages graphiques, faits avec divers mélanges de pâtes et soumis à divers procédés de finissage. Ces papiers peuvent être non couchés et collés, calandrés, super-calandrés, glacé ou filigranés ou soumis à des procédés similaires simples de finissages, ou peuvent être couchés sur une face ou deux faces au moyen de produits tels que sulfate de baryum, kaolin, gypse ou oxyde de zinc et souvent supercalandrés, etc.
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Cette rubrique comprend

les papiers tels que:

papier pour billets de banque  
papier bible véritable ou imitation  
papier pour livres et revues  
papier pour garnissage et habillage de boîtes  
bristol  
papier pour machines à additionner  
papier pour ordinateurs  
papier pour reproduction au duplicateur  
papier pour chemises  
papier pour enveloppes  
papier pour étiquettes  
papier pour lithographie  
papier pour manifolds  
papier pour offset  
papier pelure surglacé  
papier pour photographie  
papier pour affiches  
papier à lettre  
papier pour bloc-notes  
papier pour cartes mécanographiques  
papier machine

<u>No. Code</u> <u>Enquête</u>	<u>Produit</u>	<u>Définition</u>
4.21	dont: Couchés	Papiers d'impression et d'écriture, autres que le papier journal, couchés sur une face ou deux faces au moyen de produits tels que kaolin, sulfate de baryum, gypse ou oxyde de zinc et souvent super-calandrés, etc.
		<u>Cette rubrique comprend</u> les papiers couchés fabriqués dans l'usine à papier à partir d'un support soit fabriqué dans la même usine, soit acheté, et toutes sortes de papiers couchés sur la machine à papier.
4.21.1	dont: avec bois	Papiers couchés d'impression et d'écriture contenant au moins 10 % de pâte de bois mécanique.
4.21.2	dont: sans bois	Papiers couchés d'impression et d'écriture contenant moins de 10 % de pâte de bois mécanique.
4.22	Non couchés	Papiers d'impression et d'écriture, autres que le papier journal, qui ont pu être collés, calandrés, supercalandrés, glacés ou filigranés ou soumis à des procédés similaires simples de finissage, mais non couchés.
		<u>Cette rubrique ne comprend pas</u> les supports pour papiers couchés, qu'ils soient utilisés sur place ou vendus en l'état à d'autres usines.
4.22.1	dont: avec bois	Papiers non couchés d'impression et d'écriture, autres que le papier journal, contenant au moins 10 % de pâte de bois mécanique.
4.22.2	dont: sans bois	Papiers non couchés d'impression et d'écriture, autres que le papier journal, contenant moins de 10 % de pâte de bois mécanique.
4.31	Papiers à usage domestique et hygiénique	Papier absorbant, crépé ou non, parfois gaufré, fait avec des pâtes blanchies ou écruées, ou des pâtes de vieux papiers ou avec un mélange de ces types de pâtes. Ce papier doit avoir une force suffisante pour résister à l'usage sans désagrégation ou déchirure. Ses autres caractéristiques importantes sont la capacité d'absorption, la possibilité de retenir des liquides, la douceur au toucher, l'absence de charpie et d'odeur désagréable. Il est fait en blanc et en diverses teintes, en une, deux ou plusieurs couches.
		<u>Cette rubrique comprend</u> les papiers, crépés ou non, tels que: papier-serviette (essuie-mains etc.) papier pour serviettes hygiéniques papier à démaquiller papier hygiénique ouates de cellulose articles en papier à jeter papier d'essuyage

<u>No. Code</u> <u>Enquête</u>	<u>Produit</u>	<u>Définition</u>
4.32	Papier et cartons d'emballage et d'emballage	Papiers et cartons destinés à l'emballage et l'emballage, fabriqués à partir de pâtes, de vieux papiers ou de n'importe quel combinaison de ces deux types de matières.
4.32.1	Carton de couverture	Carton fabriqué à partir de pâte au sulfate (blanchie ou non) ou essentiellement à partir de vieux papiers, employé pour couvrir des cartons ondulés ou des papiers ou carton compacts utilisés pour faire des boîtes ou récipients.
4.32.11	Couverture kraft pour carton ondulé	Cartons de couverture faits uniquement ou principalement de pâte au sulfate, blanchie ou écrue.
4.32.11.1	Ecrue	Couverture kraft pour carton ondulé faite uniquement ou principalement de pâte au sulfate écrue. <u>Cette rubrique comprend</u> les papiers de couverture kraft marbrés
4.32.11.2	Blanchie	Couverture kraft pour carton ondulé faite uniquement ou principalement de pâte au sulfate blanchie. <u>Cette rubrique comprend</u> les papiers de couverture kraft doublés de blanc
4.32.12	Autres cartons de couverture	Cartons de couverture autres que les cartons de couverture kraft
4.32.2	Cannelures	Papiers et cartons utilisés essentiellement pour faire l'âme cannelée des cartons ondulés. Ils peuvent être faits uniquement ou principalement avec de la pâte mi-chimique ou avec d'autres matériaux.
4.32.21	Mi-chimique	Cannelures faites uniquement ou principalement de pâte de bois mi-chimique.
4.32.22	Autres cannelures	Cannelures ne contenant pas de pâte mi-chimique.
4.32.3	Papier kraft d'emballage et d'emballage	Tous les autres papiers faits uniquement ou principalement avec de la pâte au sulfate, blanchie ou écrue, utilisés sous forme de sacs d'emballage à une ou plusieurs épaisseurs ou sous d'autres formes pour l'emballage et l'emballage.
4.32.31	Papier kraft pour grands sacs	Papiers kraft d'emballage et d'emballage blanchis et écrus utilisés dans la fabrication des sacs d'emballage à une ou plusieurs épaisseurs.

<u>No. Code</u> <u>Enquête</u>	<u>Produit</u>	<u>Définition</u>
4.32.32	Autres papiers kraft d'emballage et d'empaquetage	Papiers kraft d'emballage et d'empaquetage blanchis et écrus autres que les papiers pour grands sacs.
4.32.4	Cartons pour boîtes pliantes	<p>Cartons résistants possèdent de bonne caractéristiques de rainage et de pliage. Ils sont faits avec des pâtes de bois, des vieux papiers ou un mélange des deux. Ils peuvent être à l'état naturel ou colorés dans la masse, compacts, doublés une ou deux faces, couchés ou non couchés. Les cartons de ce groupe comprennent les cartons pour boîtes pliantes, les cartons à lait et les cartons pour boîtes destinées aux produits alimentaires.</p> <p><u>Cette rubrique comprend</u></p> <ul style="list-style-type: none"><li>des cartons pour boîtes pliantes tels que:<ul style="list-style-type: none"><li>carton duplex ou triplex blanc ou coloré doublé</li><li>cartons compacts blanchis</li><li>cartons gris à l'état naturel ou colorés</li><li>cartons écru kraft pliables, pas blanchis</li></ul></li></ul> <p><u>Cette rubrique ne comprend pas</u></p> <ul style="list-style-type: none"><li>le carton kraft pour boîtes d'emballage. Il est classé sous la rubrique 4.32.52</li></ul>
4.32.41	A base de pâte	Ces cartons pour boîtes pliantes sont faits entièrement de pâte chimique pure ou d'un mélange de pâte chimique et de pâte mécanique et/ou thermo-mécanique.
4.32.41.1	A base de pâte chimique blanchie	Ces cartons pour boîtes pliantes peuvent être des cartons compacts de pâte chimique blanchie ou des cartons doublés à deux faces avec de la pâte chimique blanchie.
4.32.41.2	A base d'autres pâtes	Ces cartons pour boîtes pliantes sont compacts ou doublés deux faces et sont faits soit d'une fourniture homogène de pâte écru, soit d'un mélange de pâte chimique et de pâte mécanique et/ou thermo-mécanique.
		<p><u>Cette rubrique ne comprend pas</u></p> <ul style="list-style-type: none"><li>les cartons doublés sur les deux faces avec de la pâte chimique blanchie, qui sont compris dans la rubrique 4.32.41.1</li></ul>
4.32.42	A base de vieux papiers	Cartons pour boîtes pliantes, obtenus de vieux papiers ou d'un mélange de vieux papiers et de pâte.

<u>No. Code</u> <u>Enquête</u>	<u>Produit</u>	<u>Définition</u>
4.32.5	Autres papiers et cartons d'emballage et d'emballage	Papiers et cartons destinés à l'emballage et l'emballage, non désignés ailleurs.
4.32.51	Autres papiers d'emballage	<p>Papiers tels que:</p> <p>i) papier sulfurisé, simili-sulfuré et papier cristal</p> <p>Papiers faits avec des pâtes de bois chimiques pures ou mélangées ou de pâtes de fibres de coton, traitées (c'est-à-dire fortement hydratées ou soumises à un raffinage poussé) pour que le papier obtenu soit résistant à l'huile, à la graisse et à l'eau. Ces papiers sont utilisés principalement pour l'emballage de produits alimentaires congelés, humides ou gras (beurre, margarine, viande, poisson, etc.) comme moules à pâtisserie, anti-adhésifs, sachets de stérilisation, parchemins ou imitations de parohemin.</p> <p><u>Cette rubrique ne comprend pas</u></p> <p>les papiers qui, après fabrication, ont été rendus ingraissables ou imperméables par couchage, imprégnation ou autres procédés similaires.</p> <p>ii) papiers d'emballage et d'emballage ne figurant dans la rubrique i) ci-dessus ni sous la code 4.32.32</p>
4.32.52	Autres cartons d'emballage	<p>Cartons d'emballage ne figurant pas dans les rubriques 4.32.11, 4.32.12, 4.32.41 et 4.32.42</p> <p><u>Cette rubrique comprend</u></p> <p>des cartons tels que:</p> <p>carton paille carton non pliable pour boîte d'emballage, caisse rigides, etc. carton destiné à la fabrication de mandrins, tubes et boîtes cylindriques, etc.</p> <p><u>Cette rubrique ne comprend pas</u></p> <p>le carton ondulé qui est considéré comme un carton travaillé les papiers et carton paille utilisés pour les boîtes en carton ondulé (qui figurent sous 4.32.12 et 4.32.22 ci-dessus)</p>

<u>No. Code</u> <u>Enquête</u>	<u>Produit</u>	<u>Définition</u>
4.33	Autres papiers et cartons, non décrits ailleurs	Papiers et cartons non destinés à l'emballage et faits principalement avec des matières premières autres que la pâte au sulfate et non décrits ailleurs.
4.33.1	Papiers	<p>Papiers tels que:</p> <p>i) papiers minces spéciaux</p> <p>Les papiers de cette catégorie sont destinés à usages particuliers et sont tous relativement fins. Ils sont faits parfois avec des pâtes mécaniques ou chimiques blanchies ou écrues, mais souvent avec des pâtes contenant du lin, du chanvre ou de la fibre de coton. Leurs principales caractéristiques sont l'uniformité de la surface et du calibre, l'absence de perforations, la résistance, la texture serrée, l'opacité, une faible perméabilité, la pureté chimique - toutes ces caractéristiques étant liées à des utilisations spéciales.</p> <p><u>Cette rubrique comprend</u></p> <p>des papiers minces spéciaux tels que:</p> <p>papier pelure pour carbone papier pour condensateurs papiers à cigarettes papiers mousseline pour essuyage de lentilles optiques papier pour stencils papier pour patrons papier pour sachets de thé papiers électriques</p> <p><u>Cette rubrique ne comprend pas</u></p> <p>les papiers minces d'impression et d'écriture tels que:</p> <p>papier bible ou imitation papier pour reproduction au duplicateur papier pour manifolds papier pelure surglacé papier à lettre avion</p> <p>ii) papiers kraft destinés à être paraffinés, asphaltés, imperméabilisés, laminés, imprégnés, filés ou tordus, gommés, etc.</p> <p><u>Cette rubrique ne comprend pas</u></p> <p>les cartons kraft pliables. Ils sont classés sous les rubriques 4.32.4 et 4.32.42</p>

Code No.  
Enquête

Produit

Définition

iii) autres papiers ne figurant pas dans les précédents rubriques

Cette rubrique comprend

des papiers tels que:

papier isolant  
papier de chanvre et de jute  
papier buvard  
papier filtre  
les supports de tenture (papier) peints

4.33.2

Cartons

Cartons non décrits ailleurs, tels que:

i) papiers et cartons de construction

Papiers, feutres et cartons utilisés dans la construction comme isolants, joints d'étanchéité au gaz, sous-couches de plafonds ou de planchers, etc. Ils sont faits avec des matières complètement raffinées telles que pâtes de bois, vieux papiers, autres pâtes végétales et fibres minérales. La faible conductivité thermique, la résistance à l'humidité, au feu, à la vermine et aux insectes et la durabilité sont des caractéristiques souhaitables pour ces matières.

Cette rubrique ne comprend pas

- a) les papiers, feutres et cartons imprégnés, imprégnés à coeur, à plusieurs épaisseurs ou traités de toute autre manière (c'est-à-dire travaillés).
- b) les panneaux de fibres durs, mi-durs et isolants.

ii) autres cartons non décrits ailleurs.

Cette rubrique comprend

des cartons tels que:

cartons pour l'industrie et la chaussure  
cartons pour joints  
cartons pour transformateurs  
cartons pour apprêts textiles  
cartons pour classeurs  
cartons pour carrosserie automobile  
cartons pour dessous de bocks  
cartons pour valises et malles  
cartons pour flans de clicherie.

## DEFINICIONES

### DEFINICION DE CAPACIDAD

Capacidad máxima práctica, para los efectos de la encuesta, es el número de toneladas de papel, cartón y pasta, de la calidad comercial corriente, que se podrían producir al año, aprovechando el equipo al máximo y contando con suficiente materia prima y mano de obra, suponiendo que la demanda es capaz de absorber toda la producción. No se toman en cuenta las diferencias que se puedan producir a causa de paros imprevistos, huelgas, interrupciones de la energía eléctrica, etc., todo lo cual se traduce efectivamente en una disminución de la producción aunque no de la capacidad.

Cuando las máquinas producen papeles de varios tipos, se indica la capacidad proporcional que corresponde a cada uno, tanto en la producción actual como en los planes futuros.

La capacidad se expresa en toneladas métricas netas de papel o cartón acabado y de pasta seca al aire (10% de humedad).

### Cambios de capacidad

- i) Los aumentos de la capacidad para los años 1, 2 y 3 de la encuesta deberían incluir planes ya comprometidos para nuevas máquinas, ej.: aquellos comenzados, aquellos donde la tierra ha sido abierta, la maquinaria ordenada, la financiación obtenida, etc., así como incrementos de la maquinaria existente. Para los años 4 y 5, incluir expansiones para pulpa y papel que estén siendo consideradas o que probablemente sean llevadas a cabo.
- ii) Los cambios de capacidad deben aplicarse solamente a la parte del año en que surtan efecto.
  - a) Aumentos de capacidad.

Tratándose de fábricas y máquinas nuevas, debe tenerse presente que sólo llegan a producir a plena capacidad después de estar en funcionamiento por un cierto tiempo. En los primeros 12 meses de funcionamiento, supóngase un 70% de capacidad, 90% en los 12 meses siguientes y 100% después.

- b) Reducciones de capacidad.

No se debe tomar en cuenta la capacidad de aquella maquinaria que se haya parado, por motivos económicos, sin intenciones de volverla a poner en marcha.

## DEFINICIONES DE PASTA

Con el término "pasta para comercialización" se indica la pasta destinada a la venta en el mercado libre, excluyendo la pasta utilizada en la propia fábrica o enviada a compañías asociadas o afiliadas dentro del país. Se considera pasta para comercialización toda pasta enviada fuera del país de producción.

### 1. Pasta de madera para papel y cartón

<u>Código de la encuesta</u>	<u>Tipo</u>	<u>Definición</u>
1.1	Mecánica	Pasta de madera, incluida la pasta de desecho, obtenida moliendo o desfibrando troncos, cuarterones, rollizos, etc., o refinando astillas de coníferas o no coníferas. Suele denominarse también pasta mecánica de trituradora y pasta mecánica de refinador. Puede ser blanqueada o no.  <u>Exclúyanse</u> la pasta termomecánica pasta desfibrada, pasta obtenida según el proceso masonite, y pasta mecánica para cartón de fibra (para construcción).
1.11	de la cual: de especies no coníferas	Pasta mecánica obtenida de troncos, cuarterones, rollizos, astillas, etc., de especies no coníferas.
1.2	Termomecánica	Pasta producida por un proceso mecánico en que se ablandan partículas de madera mediante precalentamiento bajo presión antes de una fase de refinación presionizada.
1.21	de la cual: de especies no coníferas	Pasta termomecánica obtenida de maderas no coníferas.
1.3	Quimiomecánica y semiquímica	Pasta de madera, incluida la pasta de desecho, obtenida sometiendo la madera, de coníferas o no, a una serie de tratamientos mecánicos y químicos, ninguno de los cuales sea suficiente por sí solo para hacer que las fibras se separen con facilidad. Según el orden y la importancia de los tratamientos, esta pasta recibe diversas denominaciones, a saber: semiquímica, quimiomecánica, etc. Con estos procesos combinados es posible conservar en la pasta una mayor cantidad de los componentes de lignina y hemicelulosa de la madera; por consiguiente, la proporción de pasta producida respecto al peso de la madera empleada es frecuentemente muy alta. Puede ser blanqueada o no.
1.31	de la cual: de especies no coníferas	Pasta quimiomecánica y semiquímica obtenida de especies no coníferas.

<u>Código de la encuesta</u>	<u>Tipo</u>	<u>Definición</u>
	Al sulfito	Pasta de madera, incluidos los desechos, obtenida reduciendo mecánicamente a partículas madera de coníferas o frondosas cociéndolas después en autoclave en presencia de licor de cocción al bisulfito. Suelen emplearse bisulfitos tales como los de amonio, calcio, magnesio y sodio.  <u>Exclúyanse</u> los tipos solubles con un alto contenido de alfa-celulosa (generalmente 90% o más). Inclúyanse los en los códigos 3 y 3.1.
1.41	Al sulfito, sin blanquear	Pasta al sulfito que no se ha blanqueado.
1.41.1	de la cual: de especies no coníferas	Pasta al sulfito sin blanquear hecha de madera de especies no coníferas.
1.42	Al sulfito, semi-blanqueada y blanqueada	Pasta al sulfito que se ha blanqueado en todo o en parte.
1.42.1	de la cual: de especies no coníferas	Pasta al sulfito blanqueada o semiblanqueada hecha de madera de especies no coníferas.
	Al sulfato y a sosa	Pasta de madera, incluidos los desechos, obtenida reduciendo mecánicamente a partículas madera de coníferas o frondosas y cociéndolas después en autoclave en presencia de licor de cocción al hidróxido de sodio (pasta a la sosa) o de un licor de cocción consistente en una mezcla de hidróxido de sodio y sulfuro de sodio (pasta al sulfato).  <u>Exclúyanse</u> los tipos solubles con un alto contenido de alfa-celulosa (generalmente 90% o más). Inclúyanse éstos en los códigos 3 y 3.1.
1.43	Al sulfato sin blanquear y a la sosa	Pasta al sulfato y a la sosa que no se ha blanqueado.
1.43.1	de la cual: de especies no coníferas	Pasta al sulfato y a la sosa sin blanquear hecha de madera de especies no coníferas.
1.44	Al sulfato semi-blanqueada y blanqueada y a la sosa	Pasta al sulfato y a la sosa que se ha blanqueado en todo o en parte.
1.44.1	de la cual: de especies no coníferas	Pasta al sulfato y a la sosa blanqueada hecha de madera de especies no coníferas.

2. Otras pastas fibrosas para papel y cartón

<u>Código de la encuesta</u>	<u>Tipo</u>	<u>Definición</u>
2.1	(De) paja	Pasta hecha de paja con cualquier método. Puede ser blanqueada.
2.2	(De) bagazo	Pasta hecha de los residuos del beneficiado de la caña de azúcar con cualquier método. Puede ser blanqueada.
2.3	(De) bambú	Pasta hecha de bambú con cualquier método. Puede ser blanqueada.
2.4	(De) otras materias (carrizos, esparto, trapos, etc.)	Se incluye toda pasta hecha con cualquier método de materias como esparto y otros carrizos y hierbas, borra de algodón, lino, cáñamo, trapos, y otros residuos textiles. Puede ser blanqueada.  <u>Exclúyanse</u> los tipos solubles; inclúyaselos en el código 3.  Pasta hecha de papeles viejos.
3. <u>Pasta soluble (de madera y otras materias fibrosas)</u>		
3.	Soluble (de madera y otras materias fibrosas)	Pastas químicas muy blanqueadas (al sulfato, a la sosa o al sulfito) de madera de coníferas o frondosas, trapos, borra de algodón, etc., de calidad especial con un contenido muy alto de alfa-celulosa (90% o más) fácilmente adaptables a aplicaciones ajenas a la fabricación de papel.  Se emplean principalmente como fuente de celulosa en la fabricación de productos tales como fibras artificiales, materiales plásticos celulósicos, lacas, explosivos, etc.
3.1	de la cual: de especies no coníferas	Pasta soluble hecha de madera de especies no coníferas.

DEFINICIONES DE PAPEL Y CARTON

Los productos comprendidos en esta sección se presentan en rollos, tiras u hojas; los rollos y tiras tienen una anchura superior a 15 cm y las hojas no tienen menos de 36 cm de lado.

Exclúyase el papel y cartón cortado en otra forma que la rectangular.

4. Papel y cartón

<u>Código de la encuesta</u>	<u>Tipo</u>	<u>Definición</u>
4.1	Papel para periódicos (papel prensa)	Papel sin estuco, sin apresto (o con muy poco apresto) que contiene por lo menos 65 por ciento de pasta mecánica de madera o de pasta de madera termomecánica (porcentaje de fibras) del tipo empleado principalmente para la impresión de diarios, que suele pesar no menos de 40 g/m <sup>2</sup> y por lo general no más de 57 g/m <sup>2</sup> .  <u>Inclúyase</u> el papel de rotativa
4.2	Otros papeles de escritura e impresión	Papeles, excepto el papel para periódicos, idóneos para la impresión, la escritura y otros usos gráficos, hechos con diversas mezclas de pastas y diversos acabados. Se puede presentar sin estuco y aprestado, calandrado, supercalandrado, satinado, filigranado, o sometido a procesos sencillos de acabamiento análogo, o se puede estucar por una o ambas caras con materiales de estuco como sulfato de bario, tiza, yeso y óxido de cinc, frecuentemente completado con supercalandratura, etc  <u>Inclúyanse</u> los papeles como: Papel moneda Papel biblia o imitación biblia papel para libros y revistas forro de cajas interior y exterior bristol papel de calculadora papel de computadora papel para copias múltiples papel de sobre papel de escritura etiquetas papel litográfico papel para copias múltiples offset papel cebolla papel para fotografía papel para carteles papel de escritorio papel para bloques papel de tarjetas de tabulación papel para máquina de escribir

<u>Código de la encuesta</u>	<u>Tipo</u>	<u>Definición</u>
	de la cual:	
4.21	estucado	Papeles de impresión y escritura, salvo el papel para periódicos, que hayan sido estucados por uno o ambos lados con materiales para estucar como tiza (caolín beneficiado), sulfato de bario, yeso u óxido de cinc, suplementado a veces con supercalandradura, etc.  <u>Inclúyase</u> el papel estucado producido en la fábrica de papel a partir de papel soporte fabricado para uso propio o comprado y todo el papel hecho y estucado en una sola operación en la máquina de papel.
	de la cual:	
4.21.1	con pasta mecánica	Papeles estucados de escritura e impresión que contienen un 10 % o más de pasta mecánica.
4.21.2	sin pasta mecánica	Papeles estucados de escritura e impresión que contienen menos de un 10 % de pasta mecánica.
4.22	sin estucar	Papeles de impresión y escritura, salvo el papel para periódicos, que han sido sometidos a encolado, calandradura, supercalandradura, satinado, afiligranado u otros procesos sencillos de acabado, pero no al estucado.  <u>Exclúyase</u> el papel soporte para estucar para uso propio o para la venta a otras papeleras.
	de la cual:	
4.22.1	con pasta mecánica	Papeles sin estucar de escritura e impresión que contienen un 10 % o más de pasta mecánica.
4.22.2	sin pasta mecánica	Papeles sin estucar de escritura e impresión que contienen menos de un 10 % de pasta mecánica.
4.31	Papel de uso doméstico y sanitario	Papel absorbente, crepé o no, a veces gofrado, hecho de pasta, blanqueada o no, papel viejo o una mezcla de estos. Este tipo de papel se presenta suficientemente robusto para evitar disgregación o laceración en el uso. Otras características importantes son alta capacidad absorbente, retención de los líquidos absorbidos, morbidez, ausencia de pelillos y olores desagradables. Se hace blanco o en diversos colores y en una, dos o más capas.  <u>Inclúyanse</u> toallas papel facial servilletas guata sanitaria papel higiénico papeles sanitarios material limpiador

<u>Código de la encuesta</u>	<u>Tipo</u>	<u>Definición</u>
4.32	Papel y cartón de envolver y empaquetar	Papel y cartón para envolver y empaquetar, hecho de pastas, recortes y cualquier combinación de ambos.
4.32.1	Cartón de capa	Cartón hecho de pasta al sulfato, blanqueado o no, o principalmente de recortes utilizados como material facial sobre cartón acanalado o sólido o sobre cajas y recipientes de cartón.
4.32.11	Papel kraft para forros	Cartón de capa o cara hecho en todo o principalmente de pasta al sulfato blanqueado o no.
4.32.11.1	sin blanquear	Papel kraft para forros hecho total o principalmente de pasta al sulfato sin blanquear. <u>Inclúyase</u> el papel kraft veteadado para forros.
4.32.11.2	blanqueado	Papel kraft para forros hecho total o principalmente de pasta al sulfato blanqueada. <u>Inclúyase</u> el papel kraft de superficie blanca.
4.32.12	Otros cartones de capa	Cartones de capa que no sean kraft para forros.
4.32.2	Medio para acanalar	Papel o cartón empleado como medio para ondular en la producción de cartón acanalado. Se puede fabricar en todo o principalmente de pasta de madera semiquímica o de otros materiales.
4.32.21	Semiquímico	Medio para acanalar hecho total o principalmente de pasta semiquímica para madera.
4.32.22	Otros medios para acanalar	Medios para acanalar que no sean semiquímicos.
4.32.3	Papel kraft de envolver y empaquetar	Todos los demás tipos de papel hechos totalmente o principalmente de pasta al sulfato blanqueada y sin blanquear que se utilizan en la fabricación de sacos simples o de varias capas o para otras clases de envolturas y empaquetados.
4.32.31	Papel kraft para sacos	Papel kraft de envolver y empaquetar, blanqueado o no, que se emplea en la fabricación de sacos, simples o de varias capas.
4.32.32	Otros tipos de papel kraft de envolver y empaquetar	Papeles kraft de envolver y empaquetar, blanqueado o no, que no sean el papel kraft para sacos.

<u>Código de la encuesta</u>	<u>Tipo</u>	<u>Definición</u>
4.32.4	Cartones sólidos para cajas plegables	<p>Cartón con buenas características de consistencia, marcatura y plegadura. Estos cartones se hacen de pasta de madera, papel viejo o mezclas de los dos. Se presentan naturales o coloreados, sólidos, con forro simple o múltiple, con o sin estuco. Comprenden cajas de cartón plegables, para leche y para el servicio de alimentos.</p> <p><u>Inclúyanse</u> cartones sólidos para cajas plegables como: duplex y triplex con forro blanco o de color cartón sólido blanqueado cartón de astillas (natural o coloreado) cartón kraft plegable no blanqueado</p> <p><u>Exclúyase</u> el cartón no plegable para caja de embarque, comprendido en el código 4.32.52</p>
4.32.41	Cartones a base de pasta	<p>Estos cartones para cajas plegables se hacen completamente de pasta química o de una mezcla de pastas químicas y mecánicas y/o termomecánicas.</p>
4.32.41.1	Cartones a base de pasta química blanqueada	<p>Estos cartones para cajas plegables pueden ser cartones con forro simple de pasta química blanqueada o cartones con forro múltiple y pasta química blanqueada en ambos lados.</p>
4.32.41.2	Otros cartones a base de pasta	<p>Estos cartones para cajas plegables son de forro simple, hecho de pasta no blanqueada, o múltiple, hecho con una mezcla de pasta química y mecánica y/o termomecánica.</p> <p><u>Exclúyanse</u> los cartones con forros múltiples y pasta química blanqueada en ambos lados comprendidos en el código 4.32.41.1</p>
4.32.42	Cartones a base de papel viejo	<p>Cartones para cajas plegables manufacturados a base de papel viejo o de una mezcla de papel viejo y pasta.</p>
4.32.5	Otros papeles y cartones de envolver y empaquetar	<p>Papeles y cartones de envolver y empaquetar no incluidos en otros párrafos.</p>
4.32.51	Otros papeles de envolver	<p>Papeles como los siguientes:</p> <p>i) Pergamino vegetal, papel impermeable a las grasas y papel glaseado (papel cristal). Papeles hechos de pasta de madera química pura o de mezclas de pasta de madera química, de pasta de fibras de algodón tratadas (o sea, altamente hidratadas o bataneadas enérgicamente) para que el papel obtenido resista al aceite la grasa y el agua. Se emplean principalmente para envasar productos congelados, húmedos o grasosos, como la</p>

<u>Código de la encuesta</u>	<u>Tipo</u>	<u>Definición</u>
4.32.51	Otros papeles de envolver	<p>Papeles como los siguientes:</p> <p>i) Pergamino vegetal, papel impermeable a las grasas y papel glaseado (papel cristal). Papeles hechos de pasta de madera química pura o de mezclas de pasta de madera química, de pasta de fibras de algodón tratadas (o sea, altamente hidratadas o bateneadas enérgicamente) para que el papel obtenido resista al aceite, la grasa y el agua. Se emplean principalmente para envasar productos congelados, húmedos o grasosos, como la mantequilla, la margarina, la carne y el pescado, como forros para cazuelas, papel anti-adhesivo, sacos esterilizadores, pergamino o imitaciones de pergamino.</p> <p><u>Exclúyanse</u> los papeles impermeabilizados a las grasas o el agua con procesos de estuco, impregnación o similares después de su fabricación.</p> <p>ii) papel de envolver y empaquetar no especificado en el anterior párrafo i) o en el 4.32.32</p>
4.32.52	Otros cartones de empaquetar	<p>Cartón de envolver y empaquetar no incluido en los párrafos 4.32.11, 4.32.12, 4.32.41 y 4.32.42.</p> <p><u>Inclúyanse</u> cartón de paja cartón no plegable para cajas de embarque, cajas de cartón no desmontable, cartón utilizado en la manufactura de soportes, tubos, bolsas y contenedores.</p> <p><u>Exclúyase</u> el cartón acanalado que se considera cartón de conversión el papel y cartón de paja utilizado para cajas acanaladas (que se incluyen en los párrafos 4.32.12 y 4.32.22)</p>
4.33	Otros papeles y cartones no incluidos en otro lugar	<p>Papel y cartón que no se utiliza para empaquetar, fabricado principalmente de materiales que no sean pasta de sulfato y no incluidos en otro lugar</p>
4.33.1	Papel	<p>Papeles como los siguientes:</p> <p>i) papel especial fino</p> <p>Aquellos papeles hechos para fines especiales cuyas características comunes están en relación con su delgadez. Pueden ser de pastas mecánicas o químicas, blanqueadas o no. Las</p>

<u>Código de la encuesta</u>	<u>Tipo</u>	<u>Definición</u>
4.33.1	Papel	<p>Papeles como los siguientes:</p> <p>i) papel especial fino</p> <p>Aquellos papeles hechos para fines especiales cuyas características comunes están en relación con su delgadez. Pueden ser de pastas mecánicas o químicas, blanquadas o no. Las principales características de algunos de estos papeles son la uniformidad de su superficie y espesor, la ausencia de poro, su resistencia, su densidad, opacidad, escasa permeabilidad y pureza química, todas relacionadas con aplicaciones especiales.</p> <p><u>Inclúyanse</u> papeles especiales finos como:</p> <ul style="list-style-type: none"><li>para papel carbón</li><li>papel de condensador y capacitor</li><li>papel eléctrico</li><li>papel de cigarrillos</li><li>papel para limpiar lentes</li><li>papel para estarcidos</li><li>papel para patrones</li><li>papel para bolsitas de té</li></ul> <p><u>Exclúyanse</u> papeles de escritura e impresión finos como:</p> <ul style="list-style-type: none"><li>papel biblia o imitación biblia</li><li>papel de copia para máquina de reproducir</li><li>papel cebolla</li><li>papel de carta para correo aéreo</li></ul> <p>ii) papel kraft empleado para encerar, asfaltar, impermeabilizar, laminar, impregnar, hilar o torcer, engomar, etc.</p> <p><u>Exclúyanse</u> los cartones sólidos para cajas plegables que están comprendidos en los códigos 4.32.4 y 4.32.42</p> <p>iii) todos los demás tipos de papel no especificados anteriormente.</p> <p><u>Inclúyanse</u> papel aislante papel secante papel filtro papel de cordeles base de papel mural</p>

<u>Código de la encuesta</u>	<u>Tipo</u>	<u>Definición</u>
4.33.2	Cartón	<p>Cartones no especificados anteriormente, como:</p> <p>i) papeles y cartones para la construcción</p> <p>Papeles, fieltros de papel y cartones empleados en la construcción de edificios y otras estructuras para aislar, evitar emanaciones, colonar debajo de los techos y pisos, etc. Se hacen de material totalmente refinado como, por ejemplo, pasta de madera, papel viejo, pasta de otros vegetales y fibra mineral. Las características convenientes en estos materiales son su poca conductividad térmica, su resistencia a la humedad, su resistencia al fuego, su permanencia y su resistencia a los insectos y alimañas.</p> <p><u>Exclúyanse</u> a) los papeles, fieltros y cartones impregnados, saturados, laminados o elaborados ulteriormente de cualquier manera.</p> <p>b) los tableros de fibra (tabletos para construcción) o sea, tableros aislantes, tableros semiduros y tableros duros.</p> <p>ii) todos los demás tipos de cartón no especificados anteriormente</p> <p><u>Inclúyanse</u> cartón de zapato cartón de guarniciones cartón de transformador cartón prensado textil cartón prensado para índices cartón panel (automóviles) cartón para posavasos de cerveza cartón de baúles y maletas cartón de matrices, etc.</p>

COUNTRY DATA

CHIFFRES PAR PAYS

DATOS RELATIVOS A LOS PAISES

LIST OF COUNTRIES

AFRICA

- \* 1. Algeria
- \* 2. Angola
- \* 3. Cameroon
- \* 4. Egypt
- \* 5. Ethiopia
- \* 6. Gabon
- \* 7. Kenya
- \* 8. Libya
- \* 9. Madagascar
- \* 10. Morocco
- \* 11. Mozambique
- \* 12. Nigeria
- \* 13. Rhodesia
- ‡ 14. South Africa
- \* 15. Sudan
- \* 16. Swaziland
- \* 17. Tanzania
- \* 18. Tunisia
- \* 19. Uganda
- \* 20. Zaire

NORTH AND CENTRAL AMERICA

- ‡ 21. Canada
- \* 22. Costa Rica
- \* 23. Cuba
- \* 24. Dominican Republic
- \* 25. El Salvador
- \* 26. Guatemala
- \* 27. Honduras
- \* 28. Jamaica
- \* 29. Mexico
- \* 30. Panama
- ‡ 31. United States

SOUTH AMERICA

- \* 32. Argentina
- \* 33. Bolivia
- \* 34. Brazil
- \* 35. Chile
- \* 36. Colombia
- \* 37. Ecuador
- \* 38. Paraguay
- \* 39. Peru
- \* 40. Uruguay
- \* 41. Venezuela

LISTE DE PAYS

AFRIQUE

- Algérie
- Angola
- Cameroun
- Egypte
- Ethiopie
- Gabon
- Kenya
- Libye
- Madagascar
- Moroc
- Mozambique
- Nigéria
- Rhodésie
- Afrique du Sud
- Soudan
- Swaziland
- Tanzanie
- Tunisie
- Ouganda
- Zaire

AMERIQUE DU NORD ET CENTRALE

- Canada
- Costa Rica
- Cuba
- République Dominicaine
- El Salvador
- Guatemala
- Honduras
- Jamaïque
- Mexique
- Panama
- Etats-Unis

AMERIQUE DU SUD

- Argentine
- Bolivie
- Brésil
- Chili
- Colombie
- Equateur
- Paraguay
- Pérou
- Uruguay
- Venezuela

LISTA DE LOS PAISES

AFRICA

- Algeria
- Angola
- Camerun
- Egipto
- Etiopia
- Gabon
- Kenia
- Libia
- Madagascar
- Marruecos
- Mozambique
- Nigeria
- Rhodesia
- Sudáfrica
- Sudán
- Swazilandia
- Tanzania
- Tunéz
- Uganda
- Zaire

AMERICA DEL NORTE

- Canadá
- Costa Rica
- Cuba
- Republica Dominicana
- El Salvador
- Guatemala
- Honduras
- Jamaica
- México
- Panamá
- Estados Unidos

AMERICA LATINA

- Argentina
- Bolivia
- Brasil
- Chile
- Colombia
- Ecuador
- Paraguay
- Perú
- Uruguay
- Venezuela

ASIA

- \* 42. Bangladesh
- \* 43. Burma
- 44. China
- \* 45. Cyprus
- \* 46. Hong Kong
- \* 47. India
- \* 48. Indonesia
- \* 49. Iran
- \* 50. Iraq
- ‡ 51. Israel
- ‡ 52. Japan
- \* 53. Jordan
- 54. Kampuchea, Democratic
- 55. Korea, Dem. People's Rep.
- \* 56. Korea, Republic of
- \* 57. Lebanon
- \* 58. Malaysia
- 59. Mongolia
- \* 60. Nepal
- \* 61. Pakistan
- \* 62. Philippines
- \* 63. Singapore
- \* 64. Sri Lanka
- \* 65. Syria
- \* 66. Thailand
- \* 67. Turkey
- 68. Viet-Nam, Socialist Republic

EUROPE

- 69. Albania
- ‡ 70. Austria
- ‡ 71. Belgium/Luxembourg
- 72. Bulgaria
- 73. Czechoslovakia
- ‡ 74. Denmark
- ‡ 75. Finland
- ‡ 76. France
- 77. German Democratic Republic
- ‡ 78. Germany, Federal Republic of
- ‡ 79. Greece
- 80. Hungary
- ‡ 81. Ireland
- ‡ 82. Italy
- ‡ 83. Netherlands
- ‡ 84. Norway
- 85. Poland
- ‡ 86. Portugal
- 87. Romania
- ‡ 88. Spain
- ‡ 89. Sweden
- ‡ 90. Switzerland
- ‡ 91. United Kingdom
- ‡ 92. Yugoslavia

OCEANIA

- ‡ 93. Australia
- ‡ 94. New Zealand
- 95. U.S.S.R.

ASIE

- Bangladesh
- Birmanie
- Chine
- Chypre
- Hong Kong
- Inde
- Indonésie
- Iran
- Irak
- Israël
- Japon
- Jordanie
- Kampuchea, Démocratique
- Corée, Rép. Pop. Dém.
- Corée, République de
- Liban
- Malaisie
- Mongolie
- Népal
- Pakistan
- Philippines
- Singapour
- Sri Lanka
- Syrie
- Thaïlande
- Turquie
- Viet-Nam, Rép. Soc.

EUROPE

- Albanie
- Autriche
- Bélgique/Luxembourg
- Bulgarie
- Tchécoslovaquie
- Danemark
- Finlande
- France
- Allemagne, République Dém.
- Allemagne, République féd. de
- Grèce
- Hongrie
- Irlande
- Italie
- Pays-Bas
- Norvège
- Pologne
- Portugal
- Roumanie
- Espagne
- Suède
- Suisse
- Royaume-Uni
- Yougoslavie

OCEANIE

- Australie
- Nouvelle Zélande
- U.R.S.S.

ASIA

- Bangladesh
- Birmania
- China
- Chipre
- Hong Kong
- India
- Indonesia
- Iran
- Irak
- Israel
- Japon
- Jordania
- Kampuchea, Democratica
- Corea, Rep. Pop. Dem.
- Corea, Republica de
- Libano
- Malasia
- Mongolia
- Nepal
- Paquistán
- Filipinas
- Singapur
- Sri Lanka
- Siria
- Tailandia
- Turquia
- Viet-Nam, Rep. Soc.

EUROPA

- Albania
- Austria
- Bélgica-Luxemburgo
- Bulgaria
- Checoslovaquia
- Dinamarca
- Finlandia
- Francia
- Alemania, República Dem.
- Alemania, República Fed.
- Grecia
- Hungría
- Irlanda
- Italia
- Países Bajos
- Noruega
- Polonia
- Portugal
- Rumania
- España
- Suecia
- Suiza
- Reino Unido
- Yugoslavia

OCEANIA

- Australia
- Nueva Zelandia
- U.R.S.S.

DEVELOPED MARKET ECONOMIES

‡ PAYS DEVELOPPES A ECONOMIES DE MARCHE  
ECONOMIAS DE MERCADO DESARROLLADAS

DEVELOPING MARKET ECONOMIES

\* PAYS EN DEVELOPPEMENT A ECONOMIES DE MARCHE  
ECONOMIAS DE MERCADO EN DESARROLLO

CENTRALLY PLANNED ECONOMIES

■ PAYS A ECONOMIES CENTRALEMENT PLANIFIEES  
ECONOMIAS DE PLANIFICACION CENTRALIZADA

WESTERN EUROPE:

E.E.C.:

Belgium/Luxembourg  
Denmark  
France  
Germany Fed. Rep.  
Ireland  
Italy  
Netherlands  
United Kingdom

NORDIC COUNTRIES:

Finland  
Norway  
Sweden

REST OF WESTERN EUROPE:

Austria  
Greece  
Portugal  
Spain  
Switzerland  
Yugoslavia

EUROPE OCCIDENTALE:

C.E.E.:

Bélgique/Luxembourg  
Danemark  
France  
Allemagne Rép. féd.  
Irlande  
Italie  
Pays-Bas  
Royaume-Uni

PAYS NORDIQUES:

Finlande  
Norvège  
Suède

AUTRES PAYS DE L'EUROPE  
OCCIDENTALE:

Autriche  
Grèce  
Portugal  
Espagne  
Suisse  
Yougoslavie

EUROPA OCCIDENTAL:

C.E.E.:

Bélgica-Luxemburgo  
Dinamarca  
Francia  
Alemania Rep. fed.  
Irlanda  
Italia  
Países Bajos  
Reino Unido

PAISES NORDICOS:

Finlandia  
Noruega  
Suecia

OTROS PAISES DE  
L'EUROPA OCCIDENTAL:

Austria  
Grecia  
Portugal  
España  
Suiza  
Yugoslavia

PULP TERMINOLOGY

TERMINOLOGIE DE LA PATE

TERMINOLOGIA DE LA PASTA

1.	Wood pulp for making paper and paperboard	Total des pâtes de bois pour la fabrication des papiers et cartons	Total de pastas de madera para papel y cartón
1.1	Mechanical	Pâtes mécaniques	Mecánica
1.11	of which non-coniferous	dont: de bois de non-conifères	de la cual: no coníferas
1.12	coniferous	conifères	coníferas
1.2	Thermo-mechanical	Pâtes thermo-mécaniques	Termomecánica
1.21	of which non-coniferous	dont: de bois de non-conifères	de la cual: de especies no coníferas
1.22	coniferous	conifères	coníferas
1.3	Semi-chemical	Pâtes mi-chimiques	Quimio mecánica y semi química
1.31	of which: non-coniferous	dont: de bois de non-conifères	de la cual: non coníferas
1.32	coniferous	conifères	coníferas
1.4	Chemical, total:	Total pâtes chimiques:	Total de química
1.41	Unbleached sulphite	Pâtes au bisulfite écru	Al sulfito sin blanquear
1.41.1	of which non-coniferous	dont: de bois de non-conifères	de la cual: de especies no coníferas
1.41.2	coniferous	conifères	coníferas
1.42	Bleached and semi-bleached sulphite	Pâtes au bisulfite blanchies ou mi-blanchies	Al sulfito semi-blanqueada y blanqueada
1.42.1	of which non-coniferous	dont: de bois de non-conifères	de la cual: de especies no coníferas
1.42.2	coniferous	conifères	coníferas
1.43	Unbleached sulphate and soda	Pâtes au sulfate et à la soude écru	Al sulfato sin blanquear y a la sosa
1.43.1	of which non-coniferous	dont: non-conifères	de la cual: no coníferas
1.43.2	coniferous	conifères	coníferas
1.44	Bleached and semi-bleached sulphate and soda	Pâtes au sulfate et à la soude blanchies ou mi-blanchies	Al sulfato semi-blanqueada y blanqueada y a la sosa
1.44.1	of which non-coniferous	dont: de bois de non-conifères	de la cual: de especies no coníferas
1.44.2	coniferous	conifères	coníferas
2.	Other fibre pulp for making paper and paperboard, total:	Total des pâtes de matériaux végétaux fibreux autres que le bois pour la fabrication des papiers et cartons:	Total de otras pastas fibrosas para papel y cartón:
2.1	Straw	Pâtes de paille	De paja
2.2	Bagasse	Pâtes de bagasse	De bagazo
2.3	Bamboo	Pâtes de bambou	De bambú
2.4	Other (reeds, esparto, rags, etc.)	Autres (roseaux, alfa, chiffons, etc.)	De otras materias (carrizos, esparto, trapos, etc.)
3.	Dissolving pulp (of wood and other raw materials)	Pâtes à dissoudre (de bois et d'autres matériaux végétaux)	Pasta soluble (de madera y otras materias fibrosas)
3.1	of which non-coniferous	dont: de bois de non-conifères	de la cual: de especies no coníferas
3.2	coniferous	conifères	coníferas

<u>PAPER AND PAPERBOARD TERMINOLOGY</u>	<u>TERMINOLOGIE DU PAPIER ET DU CARTON</u>	<u>TERMINOLOGIA DE PAPEL Y CARTON</u>
4. Paper and paperboard, total:	Total papiers et cartons:	Total de papeles y cartones:
4.1 Newsprint	Papier journal	Papel para periodicos (papel prensa)
4.2 Other printing and writing paper total:	Total autres papiers d'impression et d'écriture:	Total de otros papeles de escritura y impresión:
4.21 Coated :	Couchés :	Estucados :
4.21.1 Wood containing	Avec bois	Con pasta mecánica
4.21.2 Wood free	Sans bois	Sin pasta mecánica
4.22 Uncoated :	Non couchés :	Sin estucar:
4.22.1 Wood containing	Avec bois	Con pasta mecanica
4.22.2 Wood free	Sans bois	Sin pasta mecánica
4.3 Other paper and paperboard, total:	Total autres papiers et cartons:	Total de otros papeles y cartones:
4.31 Household and sanitary paper	Papiers à usage domestique et hygiénique	Papel de uso doméstico y sanitario
4.32 Wrapping and packaging paper and paperboard, total:	Papiers et cartons d'emballage et d'emballage:	Papel y cartón de envolver y empaquetar:
4.32.1 Linerboard:	Carton de couverture:	Cartón de capa:
4.32.11 Kraft liner	Couverture kraft pour carton ondulé	Papel kraft para forros
4.32.11.1 Unbleached	Ecrue	Sin blanquear
4.32.11.2 Bleached	Blanchie	Blanqueado
4.32.12 Other linerboard	Autres cartons de couverture	Otros cartones de capa
4.32.2 Fluting medium	Cannelures	Medio para acanalar
4.32.21 Semi-chemical	Mi-chimique	Semi-químico
4.32.22 Other fluting medium	Autres cannelures	Otros medios para acanalar
4.32.3 Kraft wrapping and packaging paper	Papiers kraft d'emballage et d'emballage	Papel kraft de envolver y empaquetar:
4.32.31 Sack kraft	Papier kraft pour grands sacs	Papel kraft para sacos
4.32.32 Other kraft wrapping and packaging paper	Autres papiers kraft d'emballage et d'emballage	Otros tipos de papel kraft de envolver y empaquetar
4.32.4 Folding boxboard:	Cartons pour boites pliantes:	Cartones solidos para cajas plegables:
4.32.41 Pulp based	A base de pâte	Cartones a base de pasta
4.32.41.1 Bleached chemical	A base de pâte chimique blanchie	Cartones a base de pasta quimica blanqueada
4.32.41.2 Other pulp based	A base d'autres pâtes	Otros cartones a base de pasta
4.32.42 Waste paper based	A base de vieux papiers	Cartones a base de papel viejo
4.32.5 Other wrapping and packaging paper and paperboard, n. e. s.	Autres papiers d'emballage et d'emballage n. d. a.	Otros papeles de envolver y empaquetar n. e. a.
4.32.51 Wrapping paper	Autres papiers d'emballage	Otros papeles de envolver
4.32.52 Packaging paperboard	Autres cartons d'emballage	Otros cartones de empaquetar
4.33 Other paper and paperboard, n. e. s., total	Total autres papiers et cartons, non décrits ailleurs:	Total de otros papeles y cartones, no especificado anteriormente:
4.33.1 Paper, n. e. s.	Papiers, n. d. a.	Papeles, n. e. a.
4.33.2 Paperboard, n. e. s.	Cartons, n. d. a.	Cartones, n. e. a.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

1 Country: ALGERIA

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	-	-	-	-	-	-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-	-	-	-	-
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	-	-	-	-	-	-	-	-	-	-
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	-	-	-	-
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-

2. Other fibre pulp*, total	112	44	112	44	112	44	112	44	112	112
2.1 Straw	27	-	27	-	27	-	27	-	27	27
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	85	44	85	44	85	44	85	44	85	85

3. Dissolving pulp <sup>ø</sup>	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

ø of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

1 Country: ALGERIA

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	157	157	157	157	256	273
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing + writing, total	58	58	58	58	58	58
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	58	58	58	58	58	58
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	58	58	58	58	58	58
4.3 Other paper + paperboard, total	99	99	99	99	198	215
4.31 Household + sanitary	5	5	5	5	5	5
4.32 Wrapping + packaging, total	94	94	94	94	193	210
4.32.1 Linerboard	11	11	11	11	47	53
4.32.11 Kraft liner	11	11	11	11	47	53
4.32.11.1 Unbleached	11	11	11	11	47	53
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium	11	11	11	11	38	43
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	11	11	11	11	38	43
4.32.3 Kraft wrapping + packaging	25	25	25	25	61	67
4.32.31 Sack kraft	14	14	14	14	50	56
4.32.32 Other kraft wrapping + packaging	11	11	11	11	11	11
4.32.4 Folding boxboard	24	24	24	24	24	24
4.32.41 Pulp based	..	..	..	..	..	..
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	..	..	..	..	..	..
4.32.42 Waste paper based	..	..	..	..	..	..
4.32.5 Other wrapping + packaging n.e.s.	23	23	23	23	23	23
4.32.51 Wrapping paper	..	..	..	..	..	..
4.32.52 Packaging paperboard	..	..	..	..	..	..
4.33 Other paper + board, n.e.s. total	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

2 Country: ANGOLA

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	44	32	44	32	44	32	44	32	44	44
1.1 Mechanical	-	-	-	-	-	-	-	-	-	-
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	44	32	44	32	44	32	44	32	44	44
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	7	-	7	-	7	-	7	-	7	7
1.43.1 of which non-coniferous	7	-	7	-	7	-	7	-	7	7
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	37	32	37	32	37	32	37	32	37	37
1.44.1 of which non-coniferous	37	32	37	32	37	32	37	32	37	37
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-
2. Other fibre pulp*, total	-	-	-	-	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-
3. Dissolving pulp †	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

† of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

2 Country: ANGOLA

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	19	19	19	19	19	19
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing + writing, total	5	5	5	5	5	5
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	5	5	5	5	5	5
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	5	5	5	5	5	5
4.3 Other paper + paperboard, total	14	14	14	14	14	14
4.31 Household + sanitary	1	1	1	1	1	1
4.32 Wrapping + packaging, total	13	13	13	13	13	13
4.32.1 Linerboard	-	-	-	-	-	-
4.32.11 Kraft liner	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.4 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium	-	-	-	-	-	-
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	-	-	-	-	-	-
4.32.3 Kraft wrapping + packaging	2	2	2	2	2	2
4.32.31 Sack kraft	1	1	1	1	1	1
4.32.32 Other kraft wrapping + packaging	1	1	1	1	1	1
4.32.4 Folding boxboard	2	2	2	2	2	2
4.32.41 Pulp based	2	2	2	2	2	2
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	2	2	2	2	2	2
4.32.42 Waste paper based	-	-	-	-	-	-
4.32.5 Other wrapping + packaging n. e. s.	9	9	9	9	9	9
4.32.51 Wrapping paper	5	5	5	5	5	5
4.32.52 Packaging paperboard	4	4	4	4	4	4
4.33 Other paper + board, n. e. s. total	-	-	-	-	-	-
4.33.1 Paper, n. e. s.	-	-	-	-	-	-
4.33.2 Paperboard, n. e. s.	-	-	-	-	-	-

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

3 Country: CAMEROON

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	-	-	-	-	60	60	70	70	85	95
1.1 Mechanical	-	-	-	-	-	-	-	-	-	-
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	-	-	-	-	60	60	70	70	85	95
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	-	-	-	-	60	60	70	70	85	95
1.44.1 of which non-coniferous	-	-	-	-	60	60	70	70	85	95
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-
2. Other fibre pulp*, total	-	-	-	-	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-
3. Dissolving pulp <sup>ø</sup>	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

ø of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

3 Country: CAMEROON

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	5	5	5	5	5	5
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing + writing, total	-	-	-	-	-	-
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	-	-	-	-	-	-
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	-	-	-	-	-	-
4.3 Other paper + paperboard, total	5	5	5	5	5	5
4.31 Household + sanitary	-	-	-	-	-	-
4.32 Wrapping + packaging, total	5	5	5	5	5	5
4.32.1 Linerboard	-	-	-	-	-	-
4.32.11 Kraft liner	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.4 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium	-	-	-	-	-	-
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	-	-	-	-	-	-
4.32.3 Kraft wrapping + packaging	-	-	-	-	-	-
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping + packaging	-	-	-	-	-	-
4.32.4 Folding boxboard	-	-	-	-	-	-
4.32.41 Pulp based	-	-	-	-	-	-
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	-	-	-	-	-	-
4.32.42 Waste paper based	-	-	-	-	-	-
4.32.5 Other wrapping + packaging n.e.s.	5	5	5	5	5	5
4.32.51 Wrapping paper	3	3	3	3	3	3
4.32.52 Packaging paperboard	2	2	2	2	2	2
4.33 Other paper + board, n.e.s. total	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

4 Country: EGYPT

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	-	-	-	-	-	-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-	-	-	-	-
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	-	-	-	-	-	-	-	-	-	-
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite *	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda *	-	-	-	-	-	-	-	-	-	-
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-

2. Other fibre pulp*, total	53	18	74	18	80	18	85	18	85	100
2.1 Straw	35	-	56	-	62	-	67	-	67	67
2.2 Bagasse	18	18	18	18	18	18	18	18	18	33
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-

3. Dissolving pulp <sup>ø</sup>	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

<sup>ø</sup> of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

4 Country: EGYPT

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	156	167	176	197	202	241
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing + writing, total	62	65	73	75	77	112
4.21 Coated	-	-	-	6	8	10
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	6	8	10
4.22 Uncoated	62	65	73	69	69	102
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	62	65	73	69	69	102
4.3 Other paper + paperboard, total	94	102	103	122	125	129
4.31 Household + sanitary	-	-	-	3	4	5
4.32 Wrapping + packaging, total	66	74	75	91	93	96
4.32.1 Linerboard	6	6	6	10	10	10
4.32.11 Kraft liner	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.1.1 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	6	6	6	10	10	10
4.32.2 Fluting medium	3	3	4	5	5	5
4.32.21 Semi-chemical	3	3	4	5	5	5
4.32.22 Other fluting medium	-	-	-	-	-	-
4.32.3 Kraft wrapping + packaging	6	8	8	8	8	8
4.32.31 Sack kraft	3	4	4	4	4	4
4.32.32 Other kraft wrapping + packaging	3	4	4	4	4	4
4.32.4 Folding boxboard	14	14	14	22	24	27
4.32.41 Pulp based	-	-	-	-	-	-
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	-	-	-	-	-	-
4.32.42 Waste paper based	14	14	14	22	24	27
4.32.5 Other wrapping + packaging n.e.s.	37	43	43	46	46	46
4.32.51 Wrapping paper	25	30	30	33	33	33
4.32.52 Packaging paperboard	12	13	13	13	13	13
4.33 Other paper + board, n.e.s. total	28	28	28	28	28	28
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	28	28	28	28	28	28

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

5 Country: ETHIOPIA

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	-	-	-	-	-	-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-	-	-	-	-
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	-	-	-	-	-	-	-	-	-	-
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	-	-	-	-
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-
2. Other fibre pulp*, total	-	-	-	-	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-
3. Dissolving pulp $\phi$	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

$\phi$  of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

5 Country: ETHIOPIA

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	10	10	10	10	10	10
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing + writing, total	4	4	4	4	4	4
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	4	4	4	4	4	4
4.22.1 Wood containing	2	2	2	2	2	2
4.22.2 Wood free	2	2	2	2	2	2
4.3 Other paper + paperboard, total	6	6	6	6	6	6
4.31 Household + sanitary	-	-	-	-	-	-
4.32 Wrapping + packaging, total	6	6	6	6	6	6
4.32.1 Linerboard	1	1	1	1	1	1
4.32.11 Kraft liner	1	1	1	1	1	1
4.32.11.1 Unbleached	1	1	1	1	1	1
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium	1	1	1	1	1	1
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	1	1	1	1	1	1
4.32.3 Kraft wrapping + packaging	1	1	1	1	1	1
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping + packaging	1	1	1	1	1	1
4.32.4 Folding boxboard	-	-	-	-	-	-
4.32.41 Pulp based	-	-	-	-	-	-
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	-	-	-	-	-	-
4.32.42 Waste paper based	-	-	-	-	-	-
4.32.5 Other wrapping + packaging n.e.s.	3	3	3	3	3	3
4.32.51 Wrapping paper	2	2	2	2	2	2
4.32.52 Packaging paperboard	1	1	1	1	1	1
4.33 Other paper + board, n.e.s. total	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

6 Country: GABON

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	-	-	-	-	-	-	125	125	150	175
1.1 Mechanical	-	-	-	-	-	-	-	-	-	-
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	-	-	-	-	-	-	125	125	150	175
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	125	125	150	175
1.44.1 of which non-coniferous	-	-	-	-	-	-	125	125	150	175
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-

2. Other fibre pulp*, total	-	-	-	-	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-

3. Dissolving pulp <sup>ø</sup>	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

ø of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

6 Country: GABON

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	--	--	--	--	--	--
4.1 Newsprint	--	--	--	--	--	--
4.2 Other printing + writing, total	--	--	--	--	--	--
4.21 Coated	--	--	--	--	--	--
4.21.1 Wood containing	--	--	--	--	--	--
4.21.2 Wood free	--	--	--	--	--	--
4.22 Uncoated	--	--	--	--	--	--
4.22.1 Wood containing	--	--	--	--	--	--
4.22.2 Wood free	--	--	--	--	--	--
4.3 Other paper + paperboard, total	--	--	--	--	--	--
4.31 Household + sanitary	--	--	--	--	--	--
4.32 Wrapping + packaging, total	--	--	--	--	--	--
4.32.1 Linerboard	--	--	--	--	--	--
4.32.11 Kraft liner	--	--	--	--	--	--
4.32.11.1 Unbleached	--	--	--	--	--	--
4.32.11.2 Bleached	--	--	--	--	--	--
4.32.12 Other linerboard	--	--	--	--	--	--
4.32.2 Fluting medium	--	--	--	--	--	--
4.32.21 Semi-chemical	--	--	--	--	--	--
4.32.22 Other fluting medium	--	--	--	--	--	--
4.32.3 Kraft wrapping + packaging	--	--	--	--	--	--
4.32.31 Sack kraft	--	--	--	--	--	--
4.32.32 Other kraft wrapping + packaging	--	--	--	--	--	--
4.32.4 Folding boxboard	--	--	--	--	--	--
4.32.41 Pulp based	--	--	--	--	--	--
4.32.41.1 Bleached chemical	--	--	--	--	--	--
4.32.41.2 Other pulp based	--	--	--	--	--	--
4.32.42 Waste paper based	--	--	--	--	--	--
4.32.5 Other wrapping + packaging n.e.s.	--	--	--	--	--	--
4.32.51 Wrapping paper	--	--	--	--	--	--
4.32.52 Packaging paperboard	--	--	--	--	--	--
4.33 Other paper + board, n.e.s. total	--	--	--	--	--	--
4.33.1 Paper, n.e.s.	--	--	--	--	--	--
4.33.2 Paperboard, n.e.s.	--	--	--	--	--	--

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

7 Country: KENYA

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	45	-	45	-	60	-	60	-	60	60
1.1 Mechanical	-	-	-	-	-	-	-	-	-	-
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	45	-	45	-	60	-	60	-	60	60
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	23	-	23	-	30	-	30	-	30	30
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	23	-	23	-	30	-	30	-	30	30
1.44 Bl. sulphate+soda x	22	-	22	-	30	-	30	-	30	30
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	22	-	22	-	30	-	30	-	30	30

2. Other fibre pulp*, total	-	-	-	-	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-

3. Dissolving pulp $\phi$	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

 $\phi$  of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

7 Country: KENYA

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	51	51	69	69	79	89
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing + writing, total	22	22	30	30	30	30
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	22	22	30	30	30	30
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	22	22	30	30	30	30
4.3 Other paper + paperboard, total	29	29	39	39	49	59
4.31 Household + sanitary	-	-	3	3	3	3
4.32 Wrapping + packaging, total	29	29	36	36	46	56
4.32.1 Linerboard	11	11	11	11	11	11
4.32.11 Kraft liner	11	11	11	11	11	11
4.32.11.1 Unbleached	11	11	11	11	11	11
4.32.11.4 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium	5	5	5	5	5	5
4.32.21 Semi-chemical	5	5	5	5	5	5
4.32.22 Other fluting medium	-	-	-	-	-	-
4.32.3 Kraft wrapping + packaging	7	7	14	14	14	14
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping + packaging	7	7	14	14	14	14
4.32.4 Folding boxboard	-	-	-	-	-	-
4.32.41 Pulp based	-	-	-	-	-	-
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	-	-	-	-	-	-
4.32.42 Waste paper based	-	-	-	-	-	-
4.32.5 Other wrapping + packaging n.e.s.	6	6	6	6	16	26
4.32.51 Wrapping paper	3	3	3	3	13	23
4.32.52 Packaging paperboard	3	3	3	3	3	3
4.33 Other paper + board, n.e.s. total	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

8 Country: LIBYA

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	-	-	-	-	-	-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-	-	-	-	-
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	-	-	-	-	-	-	-	-	-	-
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	-	-	-	-
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-
2. Other fibre pulp*, total	-	-	-	-	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-
3. Dissolving pulp †	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

† of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

8 Country: LIBYA

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	5	5	5	5	5	5
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing + writing, total	-	-	-	-	-	-
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	-	-	-	-	-	-
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	-	-	-	-	-	-
4.3 Other paper + paperboard, total	5	5	5	5	5	5
4.31 Household + sanitary	-	-	-	-	-	-
4.32 Wrapping + packaging, total	5	5	5	5	5	5
4.32.1 Linerboard	-	-	-	-	-	-
4.32.11 Kraft liner	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.1.1 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium	-	-	-	-	-	-
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	-	-	-	-	-	-
4.32.3 Kraft wrapping + packaging	1	1	1	1	1	1
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping + packaging	1	1	1	1	1	1
4.32.4 Folding boxboard	2	2	2	2	2	2
4.32.41 Pulp based	-	-	-	-	-	-
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	-	-	-	-	-	-
4.32.42 Waste paper based	2	2	2	2	2	2
4.32.5 Other wrapping + packaging n.e.s.	2	2	2	2	2	2
4.32.51 Wrapping paper	2	2	2	2	2	2
4.32.52 Packaging paperboard	-	-	-	-	-	-
4.33 Other paper + board, n.e.s. total	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

9 Country: MADAGASCAR

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	5	-	5	-	5	-	5	-	5	5
1.1 Mechanical	3	-	3	-	3	-	3	-	3	3
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	3	-	3	-	3	-	3	-	3	3
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	2	-	2	-	2	-	2	-	2	2
1.31 of which non-coniferous	2	-	2	-	2	-	2	-	2	2
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	-	-	-	-	-	-	-	-	-	-
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	-	-	-	-
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-

2. Other fibre pulp*, total	-	-	-	-	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-

3. Dissolving pulp <sup>ø</sup>	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

<sup>ø</sup> of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

9 Country: MADAGASCAR

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	12	12	12	12	12	12
4.1 Newsprint	1	1	1	1	1	1
4.2 Other printing + writing, total	5	5	5	5	5	5
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	5	5	5	5	5	5
4.22.1 Wood containing	5	5	5	5	5	5
4.22.2 Wood free	-	-	-	-	-	-
4.3 Other paper + paperboard, total	6	6	6	6	6	6
4.31 Household + sanitary	-	-	-	-	-	-
4.32 Wrapping + packaging, total	6	6	6	6	6	6
4.32.1 Linerboard	1	1	1	1	1	1
4.32.11 Kraft liner	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	1	1	1	1	1	1
4.32.2 Fluting medium	1	1	1	1	1	1
4.32.21 Semi-chemical	1	1	1	1	1	1
4.32.22 Other fluting medium	-	-	-	-	-	-
4.32.3 Kraft wrapping + packaging	1	1	1	1	1	1
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping + packaging	1	1	1	1	1	1
4.32.4 Folding boxboard	1	1	1	1	1	1
4.32.41 Pulp based	-	-	-	-	-	-
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	-	-	-	-	-	-
4.32.42 Waste paper based	1	1	1	1	1	1
4.32.5 Other wrapping + packaging n.e.s.	2	2	2	2	2	2
4.32.51 Wrapping paper	1	1	1	1	1	1
4.32.52 Packaging paperboard	1	1	1	1	1	1
4.33 Other paper + board, n.e.s. total	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

10 Country: MOROCCO

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	91	91	95	95	95	95	95	95	95	95
1.1 Mechanical	-	-	-	-	-	-	-	-	-	-
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	91	91	95	95	95	95	95	95	95	95
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	91	91	95	95	95	95	95	95	95	95
1.44.1 of which non-coniferous	91	91	95	95	95	95	95	95	95	95
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-
2. Other fibre pulp*, total	-	-	-	-	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-
3. Dissolving pulp ø	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

ø of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

10 Country: MOROCCO

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	152	159	159	159	159	159
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing + writing, total	27	28	28	28	28	28
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	27	28	28	28	28	28
4.22.1 Wood containing	4	4	4	4	4	4
4.22.2 Wood free	23	24	24	24	24	24
4.3 Other paper + paperboard, total	125	131	131	131	131	131
4.31 Household + sanitary	5	6	6	6	6	6
4.32 Wrapping + packaging, total	120	125	125	125	125	125
4.32.1 Linerboard	25	27	27	27	27	27
4.32.11 Kraft liner	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.4 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	25	27	27	27	27	27
4.32.2 Fluting medium	11	12	12	12	12	12
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	11	12	12	12	12	12
4.32.3 Kraft wrapping + packaging	15	15	15	15	15	15
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping + packaging	15	15	15	15	15	15
4.32.4 Folding boxboard	29	29	29	29	29	29
4.32.41 Pulp based	10	10	10	10	10	10
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	10	10	10	10	10	10
4.32.42 Waste paper based	19	19	19	19	19	19
4.32.5 Other wrapping + packaging n.e.s.	40	42	42	42	42	42
4.32.51 Wrapping paper	..	..	..	..	..	..
4.32.52 Packaging paperboard	..	..	..	..	..	..
4.33 Other paper + board, n.e.s. total	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

1.1 Country: MOZAMBIQUE

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	-	-	-	-	-	-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-	-	-	-	-
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	-	-	-	-	-	-	-	-	-	-
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	-	-	-	-
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-
2. Other fibre pulp*, total	-	-	-	-	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-
3. Dissolving pulp $\phi$	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

$\phi$  of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

11 Country: MOZAMBIQUE

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	11	11	11	11	11	11
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing + writing, total	-	-	-	-	-	-
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	-	-	-	-	-	-
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	-	-	-	-	-	-
4.3 Other paper + paperboard, total	11	11	11	11	11	11
4.31 Household + sanitary	-	-	-	-	-	-
4.32 Wrapping + packaging, total	11	11	11	11	11	11
4.32.1 Linerboard	-	-	-	-	-	-
4.32.11 Kraft liner	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.4 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium	-	-	-	-	-	-
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	-	-	-	-	-	-
4.32.3 Kraft wrapping + packaging	-	-	-	-	-	-
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping + packaging	-	-	-	-	-	-
4.32.4 Folding boxboard	-	-	-	-	-	-
4.32.41 Pulp based	-	-	-	-	-	-
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	-	-	-	-	-	-
4.32.42 Waste paper based	-	-	-	-	-	-
4.32.5 Other wrapping + packaging n.e.s.	11	11	11	11	11	11
4.32.51 Wrapping paper	..	..	..	..	..	..
4.32.52 Packaging paperboard	..	..	..	..	..	..
4.33 Other paper + board, n.e.s. total	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

12 Country: NIGERIA

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	-	-	-	-	-	-	90	-	138	162
1.1 Mechanical	-	-	-	-	-	-	-	-	-	-
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical (a)	-	-	-	-	-	-	40	-	48	56
1.31 of which non-coniferous	-	-	-	-	-	-	40	-	48	56
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	-	-	-	-	-	-	50	-	90	106
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	30	36
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	30	36
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	50	-	60	70
1.44.1 of which non-coniferous	-	-	-	-	-	-	50	-	60	70
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-
2. Other fibre pulp*, total	-	-	-	-	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-
3. Dissolving pulp $\phi$	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

$\phi$  of wood + other raw materials.

(a) Including Chemi-mechanical

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

12 Country: NIGERIA

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	13	13	13	113	163	189
4.1 Newsprint	-	-	-	50	60	70
4.2 Other printing + writing, total	3	3	3	53	63	73
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	3	3	3	53	63	73
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	3	3	3	53	63	73
4.3 Other paper + paperboard, total	10	10	10	10	40	46
4.31 Household + sanitary	-	-	-	-	-	-
4.32 Wrapping + packaging, total	10	10	10	10	40	46
4.32.1 Linerboard	2	2	2	2	17	20
4.32.11 Kraft liner	2	2	2	2	17	20
4.32.11.1 Unbleached	2	2	2	2	17	20
4.32.11.4 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium	2	2	2	2	2	2
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	2	2	2	2	2	2
4.32.3 Kraft wrapping + packaging	1	1	1	1	16	19
4.32.31 Sack kraft	1	1	1	1	16	19
4.32.32 Other kraft wrapping + packaging	-	-	-	-	-	-
4.32.4 Folding boxboard	3	3	3	3	3	3
4.32.41 Pulp based	-	-	-	-	-	-
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	-	-	-	-	-	-
4.32.42 Waste paper based	3	3	3	3	3	3
4.32.5 Other wrapping + packaging n. e. s.	2	2	2	2	2	2
4.32.51 Wrapping paper	2	2	2	2	2	2
4.32.52 Packaging paperboard	-	-	-	-	-	-
4.33 Other paper + board, n. e. s. total	-	-	-	-	-	-
4.33.1 Paper, n. e. s.	-	-	-	-	-	-
4.33.2 Paperboard, n. e. s.	-	-	-	-	-	-

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

13 Country: RHODESIA

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	32	-	35	-	35	-	35	-	35	35
1.1 Mechanical	24	-	27	-	27	-	27	-	27	27
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	24	-	27	-	27	-	27	-	27	27
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	8	-	8	-	8	-	8	-	8	8
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	8	-	8	-	8	-	8	-	8	8
1.4 Chemical, total	-	-	-	-	-	-	-	-	-	-
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	-	-	-	-
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-
2. Other fibre pulp*, total	-	-	-	-	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-
3. Dissolving pulp $\phi$	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

 $\phi$  of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

13 Country: RHODESIA

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	85	93	93	93	93	93
4.1 Newsprint	23	26	26	26	26	26
4.2 Other printing + writing, total	11	16	16	16	16	16
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	11	16	16	16	16	16
4.22.1 Wood containing	11	16	16	16	16	16
4.22.2 Wood free	-	-	-	-	-	-
4.3 Other paper + paperboard, total	51	51	51	51	51	51
4.31 Household + sanitary	-	-	-	-	-	-
4.32 Wrapping + packaging, total	51	51	51	51	51	51
4.32.1 Linerboard	8	8	8	8	8	8
4.32.11 Kraft liner	8	8	8	8	8	8
4.32.11.1 Unbleached	8	8	8	8	8	8
4.32.11.1 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium	14	14	14	14	14	14
4.32.21 Semi-chemical	14	14	14	14	14	14
4.32.22 Other fluting medium	-	-	-	-	-	-
4.32.3 Kraft wrapping + packaging	14	14	14	14	14	14
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping + packaging	14	14	14	14	14	14
4.32.4 Folding boxboard	6	6	6	6	6	6
4.32.41 Pulp based	-	-	-	-	-	-
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	-	-	-	-	-	-
4.32.42 Waste paper based	6	6	6	6	6	6
4.32.5 Other wrapping + packaging n.e.s.	9	9	9	9	9	9
4.32.51 Wrapping paper	3	3	3	3	3	3
4.32.52 Packaging paperboard	6	6	6	6	6	6
4.33 Other paper + board, n.e.s. total	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

14 Country: SOUTH AFRICA

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	723	64	752	59	850	54	865	54	875	875
1.1 Mechanical	261	-	268	-	366	-	381	-	391	391
1.11 of which non-coniferous	1	-	1	-	2	-	2	-	2	2
1.12 coniferous	260	-	267	-	364	-	379	-	389	389
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	162	-	162	-	162	-	162	-	162	162
1.31 of which non-coniferous	162	-	162	-	162	-	162	-	162	162
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	300	64	322	59	322	54	322	54	322	322
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	154	5	176	5	176	5	176	5	176	176
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	154	5	176	5	176	5	176	5	176	176
1.44 Bl. sulphate+soda x	146	59	146	54	146	49	146	49	146	146
1.44.1 of which non-coniferous	63	23	63	20	63	17	63	17	63	63
1.44.2 coniferous	83	36	83	34	83	32	83	32	83	83
2. Other fibre pulp*, total	110	-	110	-	110	-	110	-	110	110
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	110	-	110	-	110	-	110	-	110	110
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-
3. Dissolving pulp $\phi$	317	317	325	325	345	345	356	356	356	356
3.1 of which non-coniferous	317	317	325	325	345	345	356	356	356	356
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

 $\phi$  of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

14 Country: SOUTH AFRICA

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	1,125	1,194	1,384	1,409	1,419	1,419
4.1 Newsprint	218	221	396	421	431	431
4.2 Other printing + writing, total	172	177	182	182	182	182
4.21 Coated	32	32	32	32	32	32
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	32	32	32	32	32	32
4.22 Uncoated	140	145	150	150	150	150
4.22.1 Wood containing	95	100	105	105	105	105
4.22.2 Wood free	45	45	45	45	45	45
4.3 Other paper + paperboard, total	735	796	806	806	806	806
4.31 Household + sanitary	81	81	81	81	81	81
4.32 Wrapping + packaging, total	626	687	697	697	697	697
4.32.1 Linerboard	219	233	240	240	240	240
4.32.11 Kraft liner	154	165	172	172	172	172
4.32.11.1 Unbleached	151	162	169	169	169	169
4.32.11.4 Bleached	3	3	3	3	3	3
4.32.12 Other linerboard	65	68	68	68	68	68
4.32.2 Fluting medium	184	183	185	185	185	185
4.32.21 Semi-chemical	150	148	149	149	149	149
4.32.22 Other fluting medium	34	35	36	36	36	36
4.32.3 Kraft wrapping + packaging	95	102	103	103	103	103
4.32.31 Sack kraft	77	79	78	78	78	78
4.32.32 Other kraft wrapping + packaging	18	23	25	25	25	25
4.32.4 Folding boxboard	123	164	164	164	164	164
4.32.41 Pulp based	-	-	-	-	-	-
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	-	-	-	-	-	-
4.32.42 Waste paper based	123	164	164	164	164	164
4.32.5 Other wrapping + packaging n.e.s.	5	5	5	5	5	5
4.32.51 Wrapping paper	5	5	5	5	5	5
4.32.52 Packaging paperboard	-	-	-	-	-	-
4.33 Other paper + board, n.e.s. total	28	28	28	28	28	28
4.33.1 Paper, n.e.s.	18	18	18	18	18	18
4.33.2 Paperboard, n.e.s.	10	10	10	10	10	10

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

15 Country: SUDAN

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	-	-	-	-	-	-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-	-	-	-	-
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	-	-	-	-	-	-	-	-	-	-
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	-	-	-	-
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-
2. Other fibre pulp*, total	-	-	-	-	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-
3. Dissolving pulp $\phi$	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

$\phi$  of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

1.5 Country: SUDAN

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	8	8	8	8	8	8
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing + writing, total	-	-	-	-	-	-
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	-	-	-	-	-	-
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	-	-	-	-	-	-
4.3 Other paper + paperboard, total	8	8	8	8	8	8
4.31 Household + sanitary	-	-	-	-	-	-
4.32 Wrapping + packaging, total	8	8	8	8	8	8
4.32.1 Linerboard	-	-	-	-	-	-
4.32.11 Kraft liner	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.4 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium	-	-	-	-	-	-
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	-	-	-	-	-	-
4.32.3 Kraft wrapping + packaging	-	-	-	-	-	-
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping + packaging	-	-	-	-	-	-
4.32.4 Folding boxboard	-	-	-	-	-	-
4.32.41 Pulp based	-	-	-	-	-	-
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	-	-	-	-	-	-
4.32.42 Waste paper based	-	-	-	-	-	-
4.32.5 Other wrapping + packaging n.e.s.	8	8	8	8	8	8
4.32.51 Wrapping paper	6	6	6	6	6	6
4.32.52 Packaging paperboard	2	2	2	2	2	2
4.33 Other paper + board, n.e.s. total	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

16 Country: SWAZILAND

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	160	160	164	164	168	168	175	175	175	175
1.1 Mechanical	-	-	-	-	-	-	-	-	-	-
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	160	160	164	164	168	168	175	175	175	175
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	160	160	164	164	168	168	175	175	175	175
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	160	160	164	164	168	168	175	175	175	175
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	-	-	-	-
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-
2. Other fibre pulp*, total	-	-	-	-	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-
3. Dissolving pulp $\phi$	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

 $\phi$  of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

16 Country: SWAZILAND

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	-	-	-	-	-	-
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing + writing, total	-	-	-	-	-	-
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	-	-	-	-	-	-
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	-	-	-	-	-	-
4.3 Other paper + paperboard, total	-	-	-	-	-	-
4.31 Household + sanitary	-	-	-	-	-	-
4.32 Wrapping + packaging, total	-	-	-	-	-	-
4.32.1 Linerboard	-	-	-	-	-	-
4.32.11 Kraft liner	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium	-	-	-	-	-	-
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	-	-	-	-	-	-
4.32.3 Kraft wrapping + packaging	-	-	-	-	-	-
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping + packaging	-	-	-	-	-	-
4.32.4 Folding boxboard	-	-	-	-	-	-
4.32.41 Pulp based	-	-	-	-	-	-
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	-	-	-	-	-	-
4.32.42 Waste paper based	-	-	-	-	-	-
4.32.5 Other wrapping + packaging n.e.s.	-	-	-	-	-	-
4.32.51 Wrapping paper	-	-	-	-	-	-
4.32.52 Packaging paperboard	-	-	-	-	-	-
4.33 Other paper + board, n.e.s. total	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

17 Country: TANZANIA

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	-	-	-	-	-	-	31	-	38	43
1.1 Mechanical	-	-	-	-	-	-	5	-	6	7
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	-	-	-	-	-	-	5	-	6	7
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	-	-	-	-	-	-	26	-	32	36
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	13	-	16	18
1.43.1 of which non-coniferous	-	-	-	-	-	-	7	-	8	9
1.43.2 coniferous	-	-	-	-	-	-	6	-	8	9
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	13	-	16	18
1.44.1 of which non-coniferous	-	-	-	-	-	-	7	-	8	9
1.44.2 coniferous	-	-	-	-	-	-	6	-	8	9

2. Other fibre pulp*, total	-	-	-	-	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-

3. Dissolving pulp $\phi$	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

$\phi$  of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

17 Country: TANZANIA

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	2	3	3	33	39	45
4.1 Newsprint	-	-	-	5	6	7
4.2 Other printing + writing, total	-	-	-	10	12	14
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	-	-	-	10	12	14
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	-	-	-	10	12	14
4.3 Other paper + paperboard, total	2	3	3	18	21	24
4.31 Household + sanitary	-	-	-	-	-	-
4.32 Wrapping + packaging, total	2	3	3	18	21	24
4.32.1 Linerboard	1	2	2	2	2	2
4.32.11 Kraft liner	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	1	2	2	2	2	2
4.32.2 Fluting medium	1	1	1	1	1	1
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	1	1	1	1	1	1
4.32.3 Kraft wrapping + packaging	-	-	-	-	-	-
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping + packaging	-	-	-	-	-	-
4.32.4 Folding boxboard	-	-	-	-	-	-
4.32.41 Pulp based	-	-	-	-	-	-
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	-	-	-	-	-	-
4.32.42 Waste paper based	-	-	-	-	-	-
4.32.5 Other wrapping + packaging n. e. s.	-	-	-	15	18	21
4.32.51 Wrapping paper	-	-	-	10	12	14
4.32.52 Packaging paperboard	-	-	-	5	6	7
4.33 Other paper + board, n. e. s. total	-	-	-	-	-	-
4.33.1 Paper, n. e. s.	-	-	-	-	-	-
4.33.2 Paperboard, n. e. s.	-	-	-	-	-	-

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

18 Country: TUNISIA

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	-	-	-	-	-	-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-	-	-	-	-
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	-	-	-	-	-	-	-	-	-	-
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	-	-	-	-
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-

2. Other fibre pulp*, total	26	7	26	7	26	7	26	7	26	26
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	26	7	26	7	26	7	26	7	26	26

3. Dissolving pulp †	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

† of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

18 Country: TUNISIA

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	25	25	25	25	25	25
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing + writing, total	25	25	25	25	25	25
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	25	25	25	25	25	25
4.22.1 Wood containing	12	12	12	12	12	12
4.22.2 Wood free	13	13	13	13	13	13
4.3 Other paper + paperboard, total	-	-	-	-	-	-
4.31 Household + sanitary	-	-	-	-	-	-
4.32 Wrapping + packaging, total	-	-	-	-	-	-
4.32.1 Linerboard	-	-	-	-	-	-
4.32.11 Kraft liner	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.4 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium	-	-	-	-	-	-
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	-	-	-	-	-	-
4.32.3 Kraft wrapping + packaging	-	-	-	-	-	-
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping + packaging	-	-	-	-	-	-
4.32.4 Folding boxboard	-	-	-	-	-	-
4.32.41 Pulp based	-	-	-	-	-	-
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	-	-	-	-	-	-
4.32.42 Waste paper based	-	-	-	-	-	-
4.32.5 Other wrapping + packaging n.e.s.	-	-	-	-	-	-
4.32.51 Wrapping paper	-	-	-	-	-	-
4.32.52 Packaging paperboard	-	-	-	-	-	-
4.33 Other paper + board, n.e.s. total	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

19 Country: UGANDA

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	-	-	-	-	-	-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-	-	-	-	-
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	-	-	-	-	-	-	-	-	-	-
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	-	-	-	-
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-
2. Other fibre pulp*, total	-	-	-	-	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-
3. Dissolving pulp ø	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

ø of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

19 Country: UGANDA

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	7	7	7	7	7	7
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing + writing, total	6	6	6	6	6	6
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	6	6	6	6	6	6
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	6	6	6	6	6	6
4.3 Other paper + paperboard, total	1	1	1	1	1	1
4.31 Household + sanitary	-	-	-	-	-	-
4.32 Wrapping + packaging, total	1	1	1	1	1	1
4.32.1 Linerboard	-	-	-	-	-	-
4.32.11 Kraft liner	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium	1	1	1	1	1	1
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	1	1	1	1	1	1
4.32.3 Kraft wrapping + packaging	-	-	-	-	-	-
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping + packaging	-	-	-	-	-	-
4.32.4 Folding boxboard	-	-	-	-	-	-
4.32.41 Pulp based	-	-	-	-	-	-
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	-	-	-	-	-	-
4.32.42 Waste paper based	-	-	-	-	-	-
4.32.5 Other wrapping + packaging n. e. s.	-	-	-	-	-	-
4.32.51 Wrapping paper	-	-	-	-	-	-
4.32.52 Packaging paperboard	-	-	-	-	-	-
4.33 Other paper + board, n. e. s. total	-	-	-	-	-	-
4.33.1 Paper, n. e. s.	-	-	-	-	-	-
4.33.2 Paperboard, n. e. s.	-	-	-	-	-	-

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

20 Country: ZAIRE

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	-	-	-	-	-	-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-	-	-	-	-
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	-	-	-	-	-	-	-	-	-	-
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	-	-	-	-
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-
2. Other fibre pulp*, total	-	-	-	-	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-
3. Dissolving pulp #	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

# of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

20 Country: ZAIRE

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	2	2	2	2	2	2
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing + writing, total	-	-	-	-	-	-
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	-	-	-	-	-	-
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	-	-	-	-	-	-
4.3 Other paper + paperboard, total	2	2	2	2	2	2
4.31 Household + sanitary	-	-	-	-	-	-
4.32 Wrapping + packaging, total	2	2	2	2	2	2
4.32.1 Linerboard	-	-	-	-	-	-
4.32.11 Kraft liner	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium	-	-	-	-	-	-
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	-	-	-	-	-	-
4.32.3 Kraft wrapping + packaging	-	-	-	-	-	-
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping + packaging	-	-	-	-	-	-
4.32.4 Folding boxboard	-	-	-	-	-	-
4.32.41 Pulp based	-	-	-	-	-	-
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	-	-	-	-	-	-
4.32.42 Waste paper based	-	-	-	-	-	-
4.32.5 Other wrapping + packaging n.e.s.	2	2	2	2	2	2
4.32.51 Wrapping paper	-	-	-	-	-	-
4.32.52 Packaging paperboard	2	2	2	2	2	2
4.33 Other paper + board, n.e.s. total	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

21 Country: CANADA

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	22,126	6,717	22,403	6,864	22,689	6,916	23,539	7,227	23,767	23,767
1.1 Mechanical	8,293	265	8,189	268	8,143	285	8,143	285	8,143	8,143
1.11 of which non-coniferous	..	..	..	..	..	..	..	..	..	..
1.12 coniferous	..	..	..	..	..	..	..	..	..	..
1.2 Thermo-mechanical	717	-	943	-	1,230	-	1,830	175	1,998	1,998
1.21 of which non-coniferous	..	-	..	-	..	-	..	..	..	..
1.22 coniferous	..	-	..	-	..	-	..	..	..	..
1.3 Semi-chemical	459	-	465	-	474	-	474	-	474	474
1.31 of which non-coniferous	..	-	..	-	..	-	..	-	..	..
1.32 coniferous	..	-	..	-	..	-	..	-	..	..
1.4 Chemical, total	12,657	6,452	12,806	6,596	12,842	6,631	13,092	6,767	13,152	13,152
1.41 Unbleached sulphite	2,100	106	2,061	106	2,033	105	2,033	101	2,033	2,033
1.41.1 of which non-coniferous	..	..	..	..	..	..	..	..	..	..
1.41.2 coniferous	..	..	..	..	..	..	..	..	..	..
1.42 Bleached sulphite x	512	257	442	260	460	260	460	260	460	460
1.42.1 of which non-coniferous	..	..	..	..	..	..	..	..	..	..
1.42.2 coniferous	..	..	..	..	..	..	..	..	..	..
1.43 Unbl. sulphate+soda	1,807	253	1,794	243	1,776	237	1,776	235	1,776	1,776
1.43.1 of which non-coniferous	..	..	..	..	..	..	..	..	..	..
1.43.2 coniferous	..	..	..	..	..	..	..	..	..	..
1.44 Bl. sulphate+soda x	8,238	5,836	8,509	5,987	8,573	6,029	8,823	6,171	8,883	8,883
1.44.1 of which non-coniferous	866	579	873	601	875	612	875	615	875	875
1.44.2 coniferous	7,372	5,257	7,636	5,386	7,698	5,417	7,948	5,556	8,008	8,008
2. Other fibre pulp*, total	-	-	-	-	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-
3. Dissolving pulp $\phi$	395	395	340	340	365	365	375	375	380	380
3.1 of which non-coniferous	..	..	..	..	..	..	..	..	..	..
3.2 coniferous	..	..	..	..	..	..	..	..	..	..

\* for making paper + paperboard

x including semi-bleached

 $\phi$  of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

21 Country: CANADA

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	14,532	14,904	15,391	15,879	16,074	16,174
4.1 Newsprint	9,020	9,260	9,640	10,055	10,250	10,350
4.2 Other printing + writing, total	1,581	1,702	1,748	1,785	1,785	1,785
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	1,581	1,702	1,748	1,785	1,785	1,785
4.22.1 Wood containing	637	710	747	780	780	780
4.22.2 Wood free	944	992	1,001	1,005	1,005	1,005
4.3 Other paper + paperboard, total	3,931	3,942	4,003	4,039	4,039	4,039
4.31 Household + sanitary	364	376	396	411	411	411
4.32 Wrapping + packaging, total	3,290	3,285	3,324	3,345	3,345	3,345
4.32.1 Linerboard	1,216	1,232	1,241	1,248	1,248	1,248
4.32.11 Kraft liner	974	983	984	984	984	984
4.32.11.1 Unbleached	..	..	..	..	..	..
4.32.11.2 Bleached	..	..	..	..	..	..
4.32.12 Other linerboard	242	249	257	264	264	264
4.32.2 Fluting medium	576	585	598	604	604	604
4.32.21 Semi-chemical	472	478	491	497	497	497
4.32.22 Other fluting medium	104	107	107	107	107	107
4.32.3 Kraft wrapping + packaging	618	574	576	576	576	576
4.32.31 Sack kraft	297	289	290	290	290	290
4.32.32 Other kraft wrapping + packaging	321	285	286	286	286	286
4.32.4 Folding boxboard	428	439	450	456	456	456
4.32.41 Pulp based	428	439	450	456	456	456
4.32.41.1 Bleached chemical	107	109	110	110	110	110
4.32.41.2 Other pulp based	321	330	340	346	346	346
4.32.42 Waste paper based	-	-	-	-	-	-
4.32.5 Other wrapping + packaging n.e.s.	452	452	459	461	461	461
4.32.51 Wrapping paper	19	19	19	19	19	19
4.32.52 Packaging paperboard	433	436	440	442	442	442
4.33 Other paper + board, n.e.s. total	277	281	283	283	283	283
4.33.1 Paper, n.e.s.	21	21	21	21	21	21
4.33.2 Paperboard, n.e.s.	256	260	262	262	262	262

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

22 Country: COSTA RICA

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	-	-	2	-	3	-	4	-	5	5
1.1 Mechanical	-	-	2	-	3	-	4	-	5	5
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	-	-	2	-	3	-	4	-	5	5
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	-	-	-	-	-	-	-	-	-	-
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	-	-	-	-
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-
2. Other fibre pulp*, total	-	-	-	-	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-
3. Dissolving pulp $\phi$	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

 $\phi$  of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

22 Country: COSTA RICA

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	9	16	19	23	26	26
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing + writing, total	-	-	-	-	-	-
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	-	-	-	-	-	-
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	-	-	-	-	-	-
4.3 Other paper + paperboard, total	9	16	19	23	26	26
4.31 Household + sanitary	9	13	15	17	19	19
4.32 Wrapping + packaging, total	-	3	4	6	7	7
4.32.1 Linerboard	-	-	-	-	-	-
4.32.11 Kraft liner	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.4 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium	-	-	-	-	-	-
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	-	-	-	-	-	-
4.32.3 Kraft wrapping + packaging	-	3	4	6	7	7
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping + packaging	-	3	4	6	7	7
4.32.4 Folding boxboard	-	-	-	-	-	-
4.32.41 Pulp based	-	-	-	-	-	-
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	-	-	-	-	-	-
4.32.42 Waste paper based	-	-	-	-	-	-
4.32.5 Other wrapping + packaging n.e.s.	-	-	-	-	-	-
4.32.51 Wrapping paper	-	-	-	-	-	-
4.32.52 Packaging paperboard	-	-	-	-	-	-
4.33 Other paper + board, n.e.s. total	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

23 Country: CUBA

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	-	-	-	-	-	-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-	-	-	-	-
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	-	-	-	-	-	-	-	-	-	-
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	-	-	-	-
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-
2. Other fibre pulp*, total	57	-	61	-	67	-	68	-	68	88
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	57	-	61	-	67	-	68	-	68	88
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-
3. Dissolving pulp $\phi$	-	-	1	-	1	-	1	-	1	1
3.1 of which non-coniferous	-	-	1	-	1	-	1	-	1	1
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

 $\phi$  of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

23 Country: CUBA

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	163	167	173	175	178	201
4.1 Newsprint	-	4	10	12	12	12
4.2 Other printing + writing, total	35	35	35	35	35	55
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	35	35	35	35	35	55
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	35	35	35	35	35	55
4.3 Other paper + paperboard, total	128	128	128	128	131	134
4.31 Household + sanitary	6	6	6	6	9	12
4.32 Wrapping + packaging, total	98	98	98	98	98	98
4.32.1 Linerboard	40	40	40	40	40	40
4.32.11 Kraft liner	10	10	10	10	10	10
4.32.11.1 Unbleached	..	..	..	..	..	..
4.32.11.4 Bleached	..	..	..	..	..	..
4.32.12 Other linerboard	30	30	30	30	30	30
4.32.2 Fluting medium	16	16	16	16	16	16
4.32.21 Semi-chemical	..	..	..	..	..	..
4.32.22 Other fluting medium	..	..	..	..	..	..
4.32.3 Kraft wrapping + packaging	12	12	12	12	12	12
4.32.31 Sack kraft	6	6	6	6	6	6
4.32.32 Other kraft wrapping + packaging	6	6	6	6	6	6
4.32.4 Folding boxboard	24	24	24	24	24	24
4.32.41 Pulp based	13	13	13	13	13	13
4.32.41.1 Bleached chemical	2	2	2	2	2	2
4.32.41.2 Other pulp based	11	11	11	11	11	11
4.32.42 Waste paper based	11	11	11	11	11	11
4.32.5 Other wrapping + packaging n.e.s.	6	6	6	6	6	6
4.32.51 Wrapping paper	-	-	-	-	-	-
4.32.52 Packaging paperboard	6	6	6	6	6	6
4.33 Other paper + board, n.e.s. total	24	24	24	24	24	24
4.33.1 Paper, n.e.s.	20	20	20	20	20	20
4.33.2 Paperboard, n.e.s.	4	4	4	4	4	4

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

24 Country: DOMINICAN REPUBLIC

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	-	-	-	-	-	-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-	-	-	-	-
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	-	-	-	-	-	-	-	-	-	-
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	-	-	-	-
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-
2. Other fibre pulp*, total	-	-	-	-	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-
3. Dissolving pulp †	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

† of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

24 Country: DOMINICAN REPUBLIC

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	51	58	60	61	63	64
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing + writing, total	5	5	5	5	5	5
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	5	5	5	5	5	5
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	5	5	5	5	5	5
4.3 Other paper + paperboard, total	46	53	55	56	58	59
4.31 Household + sanitary	-	-	-	-	-	-
4.32 Wrapping + packaging, total	42	49	51	52	54	55
4.32.1 Linerboard	20	20	20	20	20	20
4.32.11 Kraft liner	..	..	..	..	..	..
4.32.11.1 Unbleached	..	..	..	..	..	..
4.32.11.4 Bleached	..	..	..	..	..	..
4.32.12 Other linerboard	..	..	..	..	..	..
4.32.2 Fluting medium	18	18	18	18	18	18
4.32.21 Semi-chemical	..	..	..	..	..	..
4.32.22 Other fluting medium	..	..	..	..	..	..
4.32.3 Kraft wrapping + packaging	4	4	4	4	4	4
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping + packaging	4	4	4	4	4	4
4.32.4 Folding boxboard	-	7	9	10	12	13
4.32.41 Pulp based	-	..	..	..	..	..
4.32.41.1 Bleached chemical	-	..	..	..	..	..
4.32.41.2 Other pulp based	-	..	..	..	..	..
4.32.42 Waste paper based	-	..	..	..	..	..
4.32.5 Other wrapping + packaging n. e. s.	-	-	-	-	-	-
4.32.51 Wrapping paper	-	-	-	-	-	-
4.32.52 Packaging paperboard	-	-	-	-	-	-
4.33 Other paper + board, n. e. s. total	4	4	4	4	4	4
4.33.1 Paper, n. e. s.	2	2	2	2	2	2
4.33.2 Paperboard, n. e. s.	2	2	2	2	2	2

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

25 Country: EL SALVADOR

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	-	-	-	-	-	-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-	-	-	-	-
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	-	-	-	-	-	-	-	-	-	-
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite *	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda *	-	-	-	-	-	-	-	-	-	-
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-
2. Other fibre pulp*, total	-	-	-	-	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-
3. Dissolving pulp <sup>φ</sup>	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

<sup>φ</sup> of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

25 Country: EL SALVADOR

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	16	16	16	16	16	16
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing + writing, total	-	-	-	-	-	-
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	-	-	-	-	-	-
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	-	-	-	-	-	-
4.3 Other paper + paperboard, total	16	16	16	16	16	16
4.31 Household + sanitary	6	6	6	6	6	6
4.32 Wrapping + packaging, total	10	10	10	10	10	10
4.32.1 Linerboard	-	-	-	-	-	-
4.32.11 Kraft liner	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.1 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium	-	-	-	-	-	-
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	-	-	-	-	-	-
4.32.3 Kraft wrapping + packaging	-	-	-	-	-	-
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping + packaging	-	-	-	-	-	-
4.32.4 Folding boxboard	2	2	2	2	2	2
4.32.41 Pulp based	-	-	-	-	-	-
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	-	-	-	-	-	-
4.32.42 Waste paper based	2	2	2	2	2	2
4.32.5 Other wrapping + packaging n.e.s.	8	8	8	8	8	8
4.32.51 Wrapping paper	-	-	-	-	-	-
4.32.52 Packaging paperboard	8	8	8	8	8	8
4.33 Other paper + board, n.e.s. total	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

26 Country: GUATEMALA

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	-	-	-	-	-	-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-	-	-	-	-
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	-	-	-	-	-	-	-	-	-	-
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	-	-	-	-
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-
2. Other fibre pulp*, total	-	-	-	-	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-
3. Dissolving pulp $\phi$	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

$\phi$  of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

26 Country: GUATEMALA

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	46	46	46	46	46	46
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing + writing, total	16	16	16	16	16	16
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	16	16	16	16	16	16
4.22.1 Wood containing	..	..	..	..	..	..
4.22.2 Wood free	..	..	..	..	..	..
4.3 Other paper + paperboard, total	30	30	30	30	30	30
4.31 Household + sanitary	4	4	4	4	4	4
4.32 Wrapping + packaging, total	18	18	18	18	18	18
4.32.1 Linerboard	-	-	-	-	-	-
4.32.11 Kraft liner	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium	-	-	-	-	-	-
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	-	-	-	-	-	-
4.32.3 Kraft wrapping + packaging	13	13	13	13	13	13
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping + packaging	13	13	13	13	13	13
4.32.4 Folding boxboard	5	5	5	5	5	5
4.32.41 Pulp based	-	-	-	-	-	-
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	-	-	-	-	-	-
4.32.42 Waste paper based	5	5	5	5	5	5
4.32.5 Other wrapping + packaging n.e.s.	-	-	-	-	-	-
4.32.51 Wrapping paper	-	-	-	-	-	-
4.32.52 Packaging paperboard	-	-	-	-	-	-
4.33 Other paper + board, n.e.s. total	8	8	8	8	8	8
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	8	8	8	8	8	8

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

27 Country: HONDURAS

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	-	-	-	-	-	-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-	-	-	-	-
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	-	-	-	-	-	-	-	-	-	-
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	-	-	-	-
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-
2. Other fibre pulp*, total	-	-	-	-	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-
3. Dissolving pulp †	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

† of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

27 Country: HONDURAS

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	-	3	9	12	14	14
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing + writing, total	-	-	3	4	5	5
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	-	-	3	4	5	5
4.22.1 Wood containing	-	-	3	4	5	5
4.22.2 Wood free	-	-	-	-	-	-
4.3 Other paper + paperboard, total	-	3	6	8	9	9
4.31 Household + sanitary	-	-	2	3	4	4
4.32 Wrapping + packaging, total	-	3	4	5	5	5
4.32.1 Linerboard	-	-	-	-	-	-
4.32.11 Kraft liner	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.1.1 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium	-	3	4	5	5	5
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	-	3	4	5	5	5
4.32.3 Kraft wrapping + packaging	-	-	-	-	-	-
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping + packaging	-	-	-	-	-	-
4.32.4 Folding boxboard	-	-	-	-	-	-
4.32.41 Pulp based	-	-	-	-	-	-
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	-	-	-	-	-	-
4.32.42 Waste paper based	-	-	-	-	-	-
4.32.5 Other wrapping + packaging n.e.s.	-	-	-	-	-	-
4.32.51 Wrapping paper	-	-	-	-	-	-
4.32.52 Packaging paperboard	-	-	-	-	-	-
4.33 Other paper + board, n.e.s. total	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

28 Country: JAMAICA

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	-	-	-	-	-	-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-	-	-	-	-
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	-	-	-	-	-	-	-	-	-	-
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	-	-	-	-
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-
2. Other fibre pulp*, total	-	-	-	-	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-
3. Dissolving pulp $\phi$	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

 $\phi$  of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

28 Country: JAMAICA

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	10	10	10	10	10	10
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing + writing, total	-	-	-	-	-	-
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	-	-	-	-	-	-
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	-	-	-	-	-	-
4.3 Other paper + paperboard, total	10	10	10	10	10	10
4.31 Household + sanitary	10	10	10	10	10	10
4.32 Wrapping + packaging, total	-	-	-	-	-	-
4.32.1 Linerboard	-	-	-	-	-	-
4.32.11 Kraft liner	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.4 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium	-	-	-	-	-	-
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	-	-	-	-	-	-
4.32.3 Kraft wrapping + packaging	-	-	-	-	-	-
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping + packaging	-	-	-	-	-	-
4.32.4 Folding boxboard	-	-	-	-	-	-
4.32.41 Pulp based	-	-	-	-	-	-
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	-	-	-	-	-	-
4.32.42 Waste paper based	-	-	-	-	-	-
4.32.5 Other wrapping + packaging n.e.s.	-	-	-	-	-	-
4.32.51 Wrapping paper	-	-	-	-	-	-
4.32.52 Packaging paperboard	-	-	-	-	-	-
4.33 Other paper + board, n.e.s. total	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

29 Country: MEXICO

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	565	..	622	..	622	..	622	..	722	722
1.1 Mechanical	79	-	79	-	79	-	79	-	79	79
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	79	-	79	-	79	-	79	-	79	79
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	486	..	543	..	543	..	543	..	643	643
1.41 Unbleached sulphite (a)	21	-	21	-	21	-	21	-	21	21
1.41.1 of which non-coniferous	..	-	..	-	..	-	..	-	..	..
1.41.2 coniferous	..	-	..	-	..	-	..	-	..	..
1.42 Bleached sulphite x	..	-	..	-	..	-	..	-	..	..
1.42.1 of which non-coniferous	..	-	..	-	..	-	..	-	..	..
1.42.2 coniferous	..	-	..	-	..	-	..	-	..	..
1.43 Unbl. sulphate+soda (a)	465	..	522	..	522	..	522	..	622	622
1.43.1 of which non-coniferous	..	..	..	..	..	..	..	..	..	..
1.43.2 coniferous	..	..	..	..	..	..	..	..	..	..
1.44 Bl. sulphate+soda x	..	..	..	..	..	..	..	..	..	..
1.44.1 of which non-coniferous	..	..	..	..	..	..	..	..	..	..
1.44.2 coniferous	..	..	..	..	..	..	..	..	..	..
2. Other fibre pulp*, total	378	-	478	-	478	-	478	-	478	478
2.1 Straw	19	-	19	-	19	-	19	-	19	19
2.2 Bagasse	341	-	441	-	441	-	441	-	441	441
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	18	-	18	-	18	-	18	-	18	18
3. Dissolving pulp $\phi$	7	-	7	-	7	-	7	-	7	7
3.1 of which non-coniferous	..	-	..	-	..	-	..	-	..	..
3.2 coniferous	..	-	..	-	..	-	..	-	..	..

\* for making paper + paperboard

x including semi-bleached

 $\phi$  of wood + other raw materials.

(a) Including bleached &amp; semi-bleached

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

29 Country: MEXICO

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	2,107	2,304	2,519	2,774	2,914	2,914
4.1 Newsprint	234	275	232	398	439	439
4.2 Other printing + writing, total	330	374	388	392	392	392
4.21 Coated	..	..	..	..	..	..
4.21.1 Wood containing	..	..	..	..	..	..
4.21.2 Wood free	..	..	..	..	..	..
4.22 Uncoated	..	..	..	..	..	..
4.22.1 Wood containing	..	..	..	..	..	..
4.22.2 Wood free	..	..	..	..	..	..
4.3 Other paper + paperboard, total	1,543	1,655	1,808	1,984	2,083	2,083
4.31 Household + sanitary	170	195	220	260	275	275
4.32 Wrapping + packaging, total	1,311	1,391	1,486	1,612	1,696	1,696
4.32.1 Linerboard	..	..	..	..	..	..
4.32.11 Kraft liner	..	..	..	..	..	..
4.32.11.1 Unbleached	..	..	..	..	..	..
4.32.11.2 Bleached	..	..	..	..	..	..
4.32.12 Other linerboard	..	..	..	..	..	..
4.32.2 Fluting medium	..	..	..	..	..	..
4.32.21 Semi-chemical	..	..	..	..	..	..
4.32.22 Other fluting medium	..	..	..	..	..	..
4.32.3 Kraft wrapping + packaging	..	..	..	..	..	..
4.32.31 Sack kraft	..	..	..	..	..	..
4.32.32 Other kraft wrapping + packaging	..	..	..	..	..	..
4.32.4 Folding boxboard	..	..	..	..	..	..
4.32.41 Pulp based	..	..	..	..	..	..
4.32.41.1 Bleached chemical	..	..	..	..	..	..
4.32.41.2 Other pulp based	..	..	..	..	..	..
4.32.42 Waste paper based	..	..	..	..	..	..
4.32.5 Other wrapping + packaging n.e.s.	..	..	..	..	..	..
4.32.51 Wrapping paper	..	..	..	..	..	..
4.32.52 Packaging paperboard	..	..	..	..	..	..
4.33 Other paper + board, n.e.s. total	62	69	102	112	112	112
4.33.1 Paper, n.e.s.	..	..	..	..	..	..
4.33.2 Paperboard, n.e.s.	..	..	..	..	..	..

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

30 Country: PANAMA

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	-	-	-	-	-	-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-	-	-	-	-
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	-	-	-	-	-	-	-	-	-	-
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	-	-	-	-
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-
2. Other fibre pulp*, total	-	-	-	-	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-
3. Dissolving pulp †	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

† of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

30 Country: PANAMA

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	41	42	43	43	43	43
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing + writing, total	5	5	5	5	5	5
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	5	5	5	5	5	5
4.22.1 Wood containing	5	5	5	5	5	5
4.22.2 Wood free	-	-	-	-	-	-
4.3 Other paper + paperboard, total	36	37	38	38	38	38
4.31 Household + sanitary	11	12	13	13	13	13
4.32 Wrapping + packaging, total	25	25	25	25	25	25
4.32.1 Linerboard	-	-	-	-	-	-
4.32.11 Kraft liner	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.4 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium	6	6	6	6	6	6
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	6	6	6	6	6	6
4.32.3 Kraft wrapping + packaging	17	17	17	17	17	17
4.32.31 Sack kraft	17	17	17	17	17	17
4.32.32 Other kraft wrapping + packaging	-	-	-	-	-	-
4.32.4 Folding boxboard	-	-	-	-	-	-
4.32.41 Pulp based	-	-	-	-	-	-
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	-	-	-	-	-	-
4.32.42 Waste paper based	-	-	-	-	-	-
4.32.5 Other wrapping + packaging n.e.s.	2	2	2	2	2	2
4.32.51 Wrapping paper	2	2	2	2	2	2
4.32.52 Packaging paperboard	-	-	-	-	-	-
4.33 Other paper + board, n.e.s. total	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

31 Country: U.S.A.

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	45,886	4,300	47,324	4,393	48,648	4,510	50,065	4,551	50,830	51,169
1.1 Mechanical	3,899	16	3,925	16	3,999	16	4,061	16	4,142	4,142
1.11 of which non-coniferous	..	..	..	..	..	..	..	..	..	..
1.12 coniferous	..	..	..	..	..	..	..	..	..	..
1.2 Thermo-mechanical	791	77	1,267	77	1,701	77	1,961	77	2,012	2,012
1.21 of which non-coniferous	..	..	..	..	..	..	..	..	..	..
1.22 coniferous	..	..	..	..	..	..	..	..	..	..
1.3 Semi-chemical	4,188	-	4,159	-	4,182	-	4,396	-	4,636	4,636
1.31 of which non-coniferous	..	-	..	-	..	-	..	-	..	..
1.32 coniferous	..	-	..	-	..	-	..	-	..	..
1.4 Chemical, total	37,008	4,207	37,973	4,300	38,766	4,417	39,647	4,458	40,040	40,379
1.41 Unbleached sulphite	364	38	362	38	363	38	361	38	361	361
1.41.1 of which non-coniferous	..	..	..	..	..	..	..	..	..	..
1.41.2 coniferous	..	..	..	..	..	..	..	..	..	..
1.42 Bleached sulphite x	1,461	279	1,423	233	1,427	233	1,431	233	1,434	1,434
1.42.1 of which non-coniferous	..	..	..	..	..	..	..	..	..	..
1.42.2 coniferous	..	..	..	..	..	..	..	..	..	..
1.43 Unbl. sulphate+soda	18,174	91	18,481	91	18,883	91	19,405	91	19,518	19,518
1.43.1 of which non-coniferous	..	..	..	..	..	..	..	..	..	..
1.43.2 coniferous	..	..	..	..	..	..	..	..	..	..
1.44 Bl. sulphate+soda x	17,009	3,799	17,707	3,938	18,093	4,055	18,450	4,096	18,727	19,066
1.44.1 of which non-coniferous	7,437	1,350	7,586	1,370	7,636	1,375	7,701	1,385	7,757	7,824
1.44.2 coniferous	9,572	2,449	10,121	2,568	10,457	2,680	10,749	2,711	10,970	11,242
2. Other fibre pulp*, total	715	-	779	-	797	-	799	-	801	801
2.1 Straw	..	-	..	-	..	-	..	-	..	..
2.2 Bagasse	..	-	..	-	..	-	..	-	..	..
2.3 Bamboo	..	-	..	-	..	-	..	-	..	..
2.4 Other	..	-	..	-	..	-	..	-	..	..
3. Dissolving pulp $\phi$	1,393	1,393	1,393	1,393	1,394	1,394	1,394	1,394	1,394	1,394
3.1 of which non-coniferous	..	..	..	..	..	..	..	..	..	..
3.2 coniferous	..	..	..	..	..	..	..	..	..	..

\* for making paper + paperboard

x including semi-bleached

 $\phi$  of wood + other raw materials.

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

31 Country: U.S.A

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	60,808	62,703	64,582	66,341	67,083	67,421
4.1 Newsprint	3,728	4,123	4,644	4,929	4,945	4,945
4.2 Other printing + writing, total	14,081	14,712	15,218	15,536	15,830	16,168
4.21 Coated	4,301	4,552	4,868	5,061	5,285	5,488
4.21.1 Wood containing	2,292	2,488	2,783	2,965	3,136	3,136
4.21.2 Wood free	2,009	2,064	2,085	2,096	2,149	2,352
4.22 Uncoated	9,780	10,160	10,350	10,475	10,545	10,680
4.22.1 Wood containing	1,394	1,416	1,417	1,438	1,465	1,465
4.22.2 Wood free	8,386	8,744	8,933	9,037	9,080	9,215
4.3 Other paper + paperboard, total	42,999	43,868	44,720	45,876	46,308	46,308
4.31 Household + sanitary	4,432	4,613	4,713	4,894	4,934	4,934
4.32 Wrapping + packaging, total	33,941	34,624	35,394	36,353	36,741	36,741
4.32.1 Linerboard	13,222	13,582	14,138	14,688	14,758	14,758
4.32.11 Kraft liner	12,901	13,258	13,793	14,313	14,383	14,383
4.32.11.1 Unbleached	12,780	13,136	13,668	14,187	14,257	14,257
4.32.11.4 Bleached	121	122	125	126	126	126
4.32.12 Other linerboard	321	324	345	375	375	375
4.32.2 Fluting medium	5,671	5,783	5,873	6,155	6,415	6,415
4.32.21 Semi-chemical	4,395	4,421	4,499	4,769	5,029	5,029
4.32.22 Other fluting medium	1,276	1,362	1,374	1,386	1,386	1,386
4.32.3 Kraft wrapping + packaging	4,631	4,653	4,628	4,692	4,734	4,734
4.32.31 Sack kraft	1,075	1,080	1,074	1,089	1,099	1,099
4.32.32 Other kraft wrapping + packaging	3,556	3,573	3,554	3,603	3,635	3,635
4.32.4 Folding boxboard	6,861	6,993	7,091	7,132	7,141	7,141
4.32.41 Pulp based	4,516	4,610	4,651	4,683	4,689	4,689
4.32.41.1 Bleached chemical	3,797	3,865	3,918	3,951	3,957	3,957
4.32.41.2 Other pulp based	719	745	733	732	732	732
4.32.42 Waste paper based	2,345	2,383	2,440	2,449	2,452	2,452
4.32.5 Other wrapping + packaging n. e. s.	3,556	3,613	3,664	3,686	3,693	3,693
4.32.51 Wrapping paper	188	190	188	191	192	192
4.32.52 Packaging paperboard	3,368	3,423	3,476	3,495	3,501	3,501
4.33 Other paper + board, n. e. s. total	4,626	4,631	4,613	4,629	4,633	4,633
4.33.1 Paper, n. e. s.	1,199	1,205	1,201	1,214	1,217	1,217
4.33.2 Paperboard, n. e. s.	3,427	3,426	3,412	3,415	3,416	3,416

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

32 Country: ARGENTINA

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	470	25	485	25	505	30	665	160	790	880
1.1 Mechanical	50	5	50	5	55	5	55	5	55	55
1.11 of which non-coniferous	50	5	50	5	55	5	55	5	55	55
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	200	10	215	10	230	10	260	10	285	285
1.31 of which non-coniferous	200	10	215	10	230	10	260	10	285	285
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	220	10	220	10	220	15	350	145	450	540
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	40	..	40	..	40	..	40	..	40	40
1.42.1 of which non-coniferous	10	..	10	..	10	..	10	..	10	10
1.42.2 coniferous	30	..	30	..	30	..	30	..	30	30
1.43 Unbl. sulphate+soda	120	..	120	..	120	..	190	70	205	270
1.43.1 of which non-coniferous	15	..	15	..	15	..	15	..	15	65
1.43.2 coniferous	105	..	105	..	105	..	175	70	190	205
1.44 Bl. sulphate+soda x	60	..	60	..	60	..	120	60	205	230
1.44.1 of which non-coniferous	60	..	60	..	60	..	60	..	60	60
1.44.2 coniferous	-	-	-	-	-	-	60	60	145	170

2. Other fibre pulp*, total	50	-	50	-	50	-	70	-	120	140
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	45	-	45	-	45	-	65	-	115	135
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	5	-	5	-	5	-	5	-	5	5

3. Dissolving pulp $\phi$	10	-	12	-	13	-	14	-	14	14
3.1 of which non-coniferous	10	-	12	-	13	-	14	-	14	14
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

 $\phi$  of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

32 Country: ARGENTINA

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	970	1,035	1,075	1,155	1,255	1,370
4.1 Newsprint	115	120	125	145	205	230
4.2 Other printing + writing, total	215	230	240	265	280	280
4.21 Coated	45	35	40	45	50	50
4.21.1 Wood containing	35	30	35	35	40	40
4.21.2 Wood free	10	5	5	10	10	10
4.22 Uncoated	170	195	200	220	230	230
4.22.1 Wood containing	15	15	15	15	20	20
4.22.2 Wood free	155	180	185	205	210	210
4.3 Other paper + paperboard, total	640	685	710	745	770	860
4.31 Household + sanitary	55	65	65	70	70	70
4.32 Wrapping + packaging, total	530	565	585	605	630	710
4.32.1 Linerboard	140	150	155	155	160	185
4.32.11 Kraft liner	45	45	45	45	45	65
4.32.11.1 Unbleached	40	40	40	40	40	60
4.32.11.2 Bleached	5	5	5	5	5	5
4.32.12 Other linerboard	95	105	110	110	115	120
4.32.2 Fluting medium	110	115	120	125	130	130
4.32.21 Semi-chemical	30	35	40	45	50	50
4.32.22 Other fluting medium	80	80	80	80	80	80
4.32.3 Kraft wrapping + packaging	125	140	140	145	145	175
4.32.31 Sack kraft	90	100	100	100	100	130
4.32.32 Other kraft wrapping + packaging	35	40	40	45	45	45
4.32.4 Folding boxboard	50	50	55	60	65	70
4.32.41 Pulp based	35	35	35	40	40	40
4.32.41.1 Bleached chemical	25	25	25	25	25	25
4.32.41.2 Other pulp based	10	10	10	15	15	15
4.32.42 Waste paper based	15	15	20	20	25	30
4.32.5 Other wrapping + packaging n.e.s.	105	110	115	120	130	150
4.32.51 Wrapping paper	55	60	65	65	70	80
4.32.52 Packaging paperboard	50	50	50	55	60	70
4.33 Other paper + board, n.e.s. total	55	55	60	70	70	80
4.33.1 Paper, n.e.s.	30	30	35	40	40	45
4.33.2 Paperboard, n.e.s.	25	25	25	30	30	35

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

33 Country: BOLIVIA

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	-	-	-	-	-	-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-	-	-	-	-
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	-	-	-	-	-	-	-	-	-	-
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	-	-	-	-
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-
2. Other fibre pulp*, total	1	-	1	-	1	-	1	-	1	1
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	1	-	1	-	1	-	1	-	1	1
3. Dissolving pulp <sup>ø</sup>	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

ø of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

33 Country: BOLIVIA

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	1	1	1	1	1	1
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing + writing, total	-	-	-	-	-	-
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	-	-	-	-	-	-
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	-	-	-	-	-	-
4.3 Other paper + paperboard, total	1	1	1	1	1	1
4.31 Household + sanitary	-	-	-	-	-	-
4.32 Wrapping + packaging, total	1	1	1	1	1	1
4.32.1 Linerboard	-	-	-	-	-	-
4.32.11 Kraft liner	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.1 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium	-	-	-	-	-	-
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	-	-	-	-	-	-
4.32.3 Kraft wrapping + packaging	-	-	-	-	-	-
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping + packaging	-	-	-	-	-	-
4.32.4 Folding boxboard	-	-	-	-	-	-
4.32.41 Pulp based	-	-	-	-	-	-
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	-	-	-	-	-	-
4.32.42 Waste paper based	-	-	-	-	-	-
4.32.5 Other wrapping + packaging n.e.s.	1	1	1	1	1	1
4.32.51 Wrapping paper	-	-	-	-	-	-
4.32.52 Packaging paperboard	1	1	1	1	1	1
4.33 Other paper + board, n.e.s. total	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

34 Country: BRAZIL

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	2,928	1,218	3,254	1,357	3,360	1,486	3,569	1,527	3,898	4,161
1.1 Mechanical	182	61	205	61	205	61	205	61	205	205
1.11 of which non-coniferous	36	-	36	-	36	-	36	-	36	36
1.12 coniferous	146	61	169	61	169	61	169	61	169	169
1.2 Thermo-mechanical	-	-	-	-	-	-	65	-	130	164
1.21 of which non-coniferous	-	-	-	-	-	-	33	-	42	47
1.22 coniferous	-	-	-	-	-	-	32	-	88	117
1.3 Semi-chemical	245	7	249	7	249	7	249	7	249	249
1.31 of which non-coniferous	147	-	147	-	151	-	151	-	151	151
1.32 coniferous	98	7	102	7	98	7	98	7	98	98
1.4 Chemical, total	2,501	1,150	2,800	1,289	2,906	1,418	3,050	1,459	3,314	3,543
1.41 Unbleached sulphite	43	15	43	15	43	15	43	15	43	43
1.41.1 of which non-coniferous	4	2	4	2	4	2	4	2	4	4
1.41.2 coniferous	39	13	39	13	39	13	39	13	39	39
1.42 Bleached sulphite x	33	13	33	13	33	13	33	13	33	33
1.42.1 of which non-coniferous	6	3	6	3	6	3	6	3	6	6
1.42.2 coniferous	27	10	27	10	27	10	27	10	27	27
1.43 Unbl. sulphate+soda	909	290	1,004	295	1,044	298	822	63	1,016	1,188
1.43.1 of which non-coniferous	348	256	348	256	348	256	102	20	102	102
1.43.2 coniferous	561	34	656	39	696	42	720	43	914	1,086
1.44 Bl. sulphate+soda x	1,516	832	1,720	966	1,786	1,092	2,152	1,368	2,222	2,279
1.44.1 of which non-coniferous	1,451	806	1,652	940	1,718	1,066	2,084	1,342	2,118	2,135
1.44.2 coniferous	65	26	68	26	68	26	68	26	104	144

2. Other fibre pulp*, total	235	14	374	85	410	105	429	116	429	429
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	139	14	153	14	155	14	156	14	156	156
2.3 Bamboo	44	-	95	-	109	-	116	-	116	116
2.4 Other	52	-	126	71	146	91	157	102	157	157

3. Dissolving pulp †	42	10	42	10	42	10	42	10	42	42
3.1 of which non-coniferous	..	..	..	..	..	..	..	..	..	..
3.2 coniferous	..	..	..	..	..	..	..	..	..	..

\* for making paper + paperboard

x including semi-bleached

† of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

34 Country: BRAZIL

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	3,291	3,580	3,686	3,878	4,172	4,451
4.1 Newsprint	147	147	147	204	260	260
4.2 Other printing + writing, total	747	775	790	885	981	1,081
4.21 Coated	99	111	114	114	114	114
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	99	111	114	114	114	114
4.22 Uncoated	648	664	676	771	867	967
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	648	664	676	771	867	967
4.3 Other paper + paperboard, total	2,397	2,658	2,749	2,789	2,931	3,110
4.31 Household + sanitary	254	272	273	276	278	278
4.32 Wrapping + packaging, total	1,859	2,074	2,159	2,193	2,325	2,497
4.32.1 Linerboard	396	442	466	473	521	639
4.32.11 Kraft liner	276	316	337	343	391	509
4.32.11.1 Unbleached	276	316	337	343	391	509
4.32.11.4 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	120	126	129	130	130	130
4.32.2 Fluting medium	392	427	440	444	444	444
4.32.21 Semi-chemical	392	427	440	444	444	444
4.32.22 Other fluting medium	-	-	-	-	-	-
4.32.3 Kraft wrapping + packaging	543	647	682	694	775	828
4.32.31 Sack kraft	291	369	392	402	465	513
4.32.32 Other kraft wrapping + packaging	252	278	290	292	310	315
4.32.4 Folding boxboard	270	292	301	304	304	304
4.32.41 Pulp based	270	292	301	304	304	304
4.32.41.1 Bleached chemical	68	68	68	68	68	68
4.32.41.2 Other pulp based	202	224	233	236	236	236
4.32.42 Waste paper based	-	-	-	-	-	-
4.32.5 Other wrapping + packaging n.e.s.	258	266	270	278	281	282
4.32.51 Wrapping paper	258	266	270	278	281	282
4.32.52 Packaging paperboard	-	-	-	-	-	-
4.33 Other paper + board, n.e.s. total	284	312	317	320	328	335
4.33.1 Paper, n.e.s.	112	140	145	148	156	163
4.33.2 Paperboard, n.e.s.	172	172	172	172	172	172

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

35 Country: CHILE

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	741	430	767	459	792	299	808	299	903	907
1.1 Mechanical	161	4	161	4	161	4	161	4	166	166
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	161	4	161	4	161	4	161	4	166	166
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	81	85
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	81	85
1.3 Semi-chemical	-	-	12	-	28	-	34	-	34	34
1.31 of which non-coniferous	-	-	5	-	11	-	13	-	13	13
1.32 coniferous	-	-	7	-	17	-	21	-	21	21
1.4 Chemical, total	580	426	594	455	603	295	613	295	622	622
1.41 Unbleached sulphite	22	-	22	-	22	-	22	-	31	31
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	22	-	22	-	22	-	22	-	31	31
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	269	220	241	230	243	175	243	175	243	243
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	269	220	241	230	243	175	243	175	243	243
1.44 Bl. sulphate+soda x	289	206	331	225	338	120	348	120	348	348
1.44.1 of which non-coniferous	3	-	3	-	20	-	20	-	20	20
1.44.2 coniferous	286	206	328	225	318	120	328	120	328	328
2. Other fibre pulp*, total	-	-	-	-	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-
3. Dissolving pulp <sup>ø</sup>	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

<sup>ø</sup> of wood + other raw materials.

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

35 Country: CHILE

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	335	382	390	394	499	529
4.1 Newsprint	140	143	143	143	248	278
4.2 Other printing + writing, total	74	77	79	79	79	79
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	74	77	79	79	79	79
4.22.1 Wood containing	7	5	5	5	5	5
4.22.2 Wood free	67	72	74	74	74	74
4.3 Other paper + paperboard, total	121	162	168	172	172	172
4.31 Household + sanitary	21	25	28	31	31	31
4.32 Wrapping + packaging, total	94	131	134	135	135	135
4.32.1 Linerboard	18	16	20	22	22	22
4.32.11 Kraft liner	15	13	17	19	19	19
4.32.11.1 Unbleached	15	13	17	19	19	19
4.32.11.4 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	3	3	3	3	3	3
4.32.2 Fluting medium	10	12	16	17	17	17
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	10	12	16	17	17	17
4.32.3 Kraft wrapping + packaging	37	72	67	63	63	63
4.32.31 Sack kraft	15	17	18	20	20	20
4.32.32 Other kraft wrapping + packaging	22	55	49	43	43	43
4.32.4 Folding boxboard	20	22	22	24	24	24
4.32.41 Pulp based	10	11	11	12	12	12
4.32.41.1 Bleached chemical	10	11	11	12	12	12
4.32.41.2 Other pulp based	-	-	-	-	-	-
4.32.42 Waste paper based	10	11	11	12	12	12
4.32.5 Other wrapping + packaging n. e. s.	9	9	9	9	9	9
4.32.51 Wrapping paper	2	2	2	2	2	2
4.32.52 Packaging paperboard	7	7	7	7	7	7
4.33 Other paper + board, n. e. s. total	6	6	6	6	6	6
4.33.1 Paper, n. e. s.	2	2	2	2	2	2
4.33.2 Paperboard, n. e. s.	4	4	4	4	4	4

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

36 Country: COLOMBIA

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	152	-	152	-	152	-	164	-	210	214
1.1 Mechanical	-	-	-	-	-	-	8	-	8	12
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	-	-	-	-	-	-	8	-	8	12
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	38	-	38	-	38	-	41	-	44	44
1.31 of which non-coniferous	34	-	34	-	34	-	34	-	34	34
1.32 coniferous	4	-	4	-	4	-	7	-	10	10
1.4 Chemical, total	114	-	114	-	114	-	115	-	158	158
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	110	-	110	-	110	-	111	-	138	112
1.43.1 of which non-coniferous	86	-	88	-	84	-	84	-	105	76
1.43.2 coniferous	24	-	22	-	26	-	27	-	33	36
1.44 Bl. sulphate+soda x	4	-	4	-	4	-	4	-	20	46
1.44.1 of which non-coniferous	4	-	4	-	4	-	4	-	20	46
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-
2. Other fibre pulp*, total	95	-	96	-	130	-	136	-	264	293
2.1 Straw	2	-	2	-	3	-	4	-	5	5
2.2 Bagasse	91	-	92	-	125	-	130	-	257	286
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	2	-	2	-	2	-	2	-	2	2
3. Dissolving pulp $\phi$	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

 $\phi$  of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

36 Country: COLOMBIA

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	448	487	528	560	637	716
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing + writing, total	82	92	101	110	172	205
4.21 Coated	10	12	14	16	18	20
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	10	12	14	16	18	20
4.22 Uncoated	72	80	87	94	154	185
4.22.1 Wood containing	-	3	5	10	15	25
4.22.2 Wood free	72	77	82	84	139	160
4.3 Other paper + paperboard, total	366	395	427	450	465	511
4.31 Household + sanitary	47	55	67	73	81	84
4.32 Wrapping + packaging, total	288	306	319	336	343	386
4.32.1 Linerboard	95	106	118	122	123	129
4.32.11 Kraft liner	84	94	104	107	108	114
4.32.11.1 Unbleached	84	94	104	107	108	114
4.32.11.1 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	11	12	14	15	15	15
4.32.2 Fluting medium	60	63	69	68	69	75
4.32.21 Semi-chemical	60	63	69	68	69	75
4.32.22 Other fluting medium	-	-	-	-	-	-
4.32.3 Kraft wrapping + packaging	48	50	54	55	55	80
4.32.31 Sack kraft	42	44	48	49	49	74
4.32.32 Other kraft wrapping + packaging	6	6	6	6	6	6
4.32.4 Folding boxboard	48	57	58	73	78	84
4.32.41 Pulp based	9	11	11	23	26	29
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	9	11	11	23	26	29
4.32.42 Waste paper based	39	46	47	50	52	55
4.32.5 Other wrapping + packaging n.e.s.	37	30	20	18	18	18
4.32.51 Wrapping paper	18	14	6	6	6	6
4.32.52 Packaging paperboard	19	16	14	12	12	12
4.33 Other paper + board, n.e.s. total	31	34	41	41	41	41
4.33.1 Paper, n.e.s.	5	5	5	5	5	5
4.33.2 Paperboard, n.e.s.	26	29	36	36	36	36

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

37 Country: ECUADOR

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	5	-	6	-	6	-	6	-	6	6
1.1 Mechanical	5	-	6	-	6	-	6	-	6	6
1.11 of which non-coniferous	5	-	6	-	6	-	6	-	6	6
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	-	-	-	-	-	-	-	-	-	-
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	-	-	-	-
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-
2. Other fibre pulp*, total	15	-	15	-	15	-	15	-	15	15
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	15	-	15	-	15	-	15	-	15	15
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-
3. Dissolving pulp $\phi$	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

 $\phi$  of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

37 Country: ECUADOR

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	53	57	60	60	60	60
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing + writing, total	8	9	10	10	10	10
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	8	9	10	10	10	10
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	8	9	10	10	10	10
4.3 Other paper + paperboard, total	45	48	50	50	50	50
4.31 Household + sanitary	17	18	18	18	18	18
4.32 Wrapping + packaging, total	28	30	32	32	32	32
4.32.1 Linerboard	2	2	2	2	2	2
4.32.11 Kraft liner	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.4 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	2	2	2	2	2	2
4.32.2 Fluting medium	2	2	2	2	2	2
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	2	2	2	2	2	2
4.32.3 Kraft wrapping + packaging	17	18	20	20	20	20
4.32.31 Sack kraft	12	12	13	13	13	13
4.32.32 Other kraft wrapping + packaging	5	6	7	7	7	7
4.32.4 Folding boxboard	-	-	-	-	-	-
4.32.41 Pulp based	-	-	-	-	-	-
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	-	-	-	-	-	-
4.32.42 Waste paper based	-	-	-	-	-	-
4.32.5 Other wrapping + packaging n.e.s.	7	8	8	8	8	8
4.32.51 Wrapping paper	7	8	8	8	8	8
4.32.52 Packaging paperboard	-	-	-	-	-	-
4.33 Other paper + board, n.e.s. total	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

38 Country: PARAGUAY

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	-	-	-	-	-	-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-	-	-	-	-
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	-	-	-	-	-	-	-	-	-	-
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	-	-	-	-
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-

2. Other fibre pulp*, total	-	-	-	-	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-

3. Dissolving pulp <sup>ø</sup>	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

ø of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

38 Country: PARAGUAY

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	6	11	13	15	18	18
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing + writing, total	-	2	2	2	2	2
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	-	2	2	2	2	2
4.22.1 Wood containing	-	2	2	2	2	2
4.22.2 Wood free	-	-	-	-	-	-
4.3 Other paper + paperboard, total	6	9	11	13	16	16
4.31 Household + sanitary	1	1	1	1	1	1
4.32 Wrapping + packaging, total	5	8	10	12	15	15
4.32.1 Linerboard	-	-	-	-	-	-
4.32.11 Kraft liner	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium	-	3	3	3	3	3
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	-	3	3	3	3	3
4.32.3 Kraft wrapping + packaging	-	-	-	-	-	-
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping + packaging	-	-	-	-	-	-
4.32.4 Folding boxboard	5	5	7	9	12	12
4.32.41 Pulp based	-	-	-	-	-	-
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	-	-	-	-	-	-
4.32.42 Waste paper based	5	5	7	9	12	12
4.32.5 Other wrapping + packaging n.e.s.	-	-	-	-	-	-
4.32.51 Wrapping paper	-	-	-	-	-	-
4.32.52 Packaging paperboard	-	-	-	-	-	-
4.33 Other paper + board, n.e.s. total	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

39 Country: PERU

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	15	-	15	-	15	-	15	-	15	15
1.1 Mechanical	-	-	-	-	-	-	-	-	-	-
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	15	-	15	-	15	-	15	-	15	15
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	15	-	15	-	15	-	15	-	15	15
1.44.1 of which non-coniferous	15	-	15	-	15	-	15	-	15	15
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-

2. Other fibre pulp*, total	259	-	311	-	311	-	311	-	311	311
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	259	-	311	-	311	-	311	-	311	311
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-

3. Dissolving pulp ø	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

ø of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

39 Country: PERU

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	305	357	357	357	357	357
4.1 Newsprint	70	110	110	110	110	110
4.2 Other printing + writing, total	65	68	68	68	68	68
4.21 Coated	10	12	12	12	12	12
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	10	12	12	12	12	12
4.22 Uncoated	55	56	56	56	56	56
4.22.1 Wood containing	9	10	10	10	10	10
4.22.2 Wood free	46	46	46	46	46	46
4.3 Other paper + paperboard, total	170	179	179	179	179	179
4.31 Household + sanitary	17	22	22	22	22	22
4.32 Wrapping + packaging, total	153	157	157	157	157	157
4.32.1 Linerboard	37	37	37	37	37	37
4.32.11 Kraft liner	37	37	37	37	37	37
4.32.11.1 Unbleached	35	35	35	35	35	35
4.32.11.2 Bleached	2	2	2	2	2	2
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium	44	44	44	44	44	44
4.32.21 Semi-chemical	40	40	40	40	40	40
4.32.22 Other fluting medium	4	4	4	4	4	4
4.32.3 Kraft wrapping + packaging	55	59	59	59	59	59
4.32.31 Sack kraft	36	40	40	40	40	40
4.32.32 Other kraft wrapping + packaging	19	19	19	19	19	19
4.32.4 Folding boxboard	17	17	17	17	17	17
4.32.41 Pulp based	14	14	14	14	14	14
4.32.41.1 Bleached chemical	1	1	1	1	1	1
4.32.41.2 Other pulp based	13	13	13	13	13	13
4.32.42 Waste paper based	3	3	3	3	3	3
4.32.5 Other wrapping + packaging n.e.s.	-	-	-	-	-	-
4.32.51 Wrapping paper	-	-	-	-	-	-
4.32.52 Packaging paperboard	-	-	-	-	-	-
4.33 Other paper + board, n.e.s. total	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

40 Country: URUGUAY

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	23	-	23	-	23	-	23	-	23	23
1.1 Mechanical	3	-	3	-	3	-	3	-	3	3
1.11 of which non-coniferous	..	-	..	-	..	-	..	-	..	..
1.12 coniferous	..	-	..	-	..	-	..	-	..	..
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	5	-	5	-	5	-	5	-	5	5
1.31 of which non-coniferous	..	-	..	-	..	-	..	-	..	..
1.32 coniferous	..	-	..	-	..	-	..	-	..	..
1.4 Chemical, total	15	-	15	-	15	-	15	-	15	15
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	3	-	3	-	3	-	3	-	3	3
1.43.1 of which non-coniferous	..	-	..	-	..	-	..	-	..	..
1.43.2 coniferous	..	-	..	-	..	-	..	-	..	..
1.44 Bl. sulphate+soda x	12	-	12	-	12	-	12	-	12	12
1.44.1 of which non-coniferous	12	-	12	-	12	-	12	-	12	12
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-
2. Other fibre pulp*, total	6	-	6	-	6	-	6	-	6	6
2.1 Straw	6	-	6	-	6	-	6	-	6	6
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-
3. Dissolving pulp $\phi$	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

 $\phi$  of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

40 Country: URUGUAY

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	57	57	57	57	57	57
4.1 Newsprint	1	1	1	1	1	1
4.2 Other printing + writing, total	19	19	19	19	19	19
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	19	19	19	19	19	19
4.22.1 Wood containing	4	4	4	4	4	4
4.22.2 Wood free	15	15	15	15	15	15
4.3 Other paper + paperboard, total	37	37	37	37	37	37
4.31 Household + sanitary	9	9	9	9	9	9
4.32 Wrapping + packaging, total	25	25	25	25	25	25
4.32.1 Linerboard	5	5	5	5	5	5
4.32.11 Kraft liner	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	5	5	5	5	5	5
4.32.2 Fluting medium	1	1	1	1	1	1
4.32.21 Semi-chemical	..	..	..	..	..	..
4.32.22 Other fluting medium	..	..	..	..	..	..
4.32.3 Kraft wrapping + packaging	7	7	7	7	7	7
4.32.31 Sack kraft	2	2	2	2	2	2
4.32.32 Other kraft wrapping + packaging	5	5	5	5	5	5
4.32.4 Folding boxboard	7	7	7	7	7	7
4.32.41 Pulp based	..	..	..	..	..	..
4.32.41.1 Bleached chemical	..	..	..	..	..	..
4.32.41.2 Other pulp based	..	..	..	..	..	..
4.32.42 Waste paper based	..	..	..	..	..	..
4.32.5 Other wrapping + packaging n.e.s.	5	5	5	5	5	5
4.32.51 Wrapping paper	..	..	..	..	..	..
4.32.52 Packaging paperboard	..	..	..	..	..	..
4.33 Other paper + board, n.e.s. total	3	3	3	3	3	3
4.33.1 Paper, n.e.s.	..	..	..	..	..	..
4.33.2 Paperboard, n.e.s.	..	..	..	..	..	..

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

41 Country: VENEZUELA

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	35	-	35	-	35	-	35	-	35	35
1.1 Mechanical	35	-	35	-	35	-	35	-	35	35
1.11 of which non-coniferous	35	-	35	-	35	-	35	-	35	35
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	-	-	-	-	-	-	-	-	-	-
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	-	-	-	-
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-

2. Other fibre pulp*, total	125	-	125	-	125	-	125	-	125	125
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	125	-	125	-	125	-	125	-	125	125
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-

3. Dissolving pulp $\phi$	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

$\phi$  of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

41 Country: VENEZUELA

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	692	692	692	713	719	722
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing + writing, total	87	87	87	87	87	87
4.21 Coated	..	..	..	..	..	..
4.21.1 Wood containing	..	..	..	..	..	..
4.21.2 Wood free	..	..	..	..	..	..
4.22 Uncoated	..	..	..	..	..	..
4.22.1 Wood containing	..	..	..	..	..	..
4.22.2 Wood free	..	..	..	..	..	..
4.3 Other paper + paperboard, total	605	605	605	626	632	635
4.31 Household + sanitary	127	127	127	141	145	147
4.32 Wrapping + packaging, total	478	478	478	485	487	488
4.32.1 Linerboard	143	143	143	143	143	143
4.32.11 Kraft liner	..	..	..	..	..	..
4.32.11.1 Unbleached	..	..	..	..	..	..
4.32.11.2 Bleached	..	..	..	..	..	..
4.32.12 Other linerboard	..	..	..	..	..	..
4.32.2 Fluting medium	72	72	72	72	72	72
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	72	72	72	72	72	72
4.32.3 Kraft wrapping + packaging	143	143	143	150	152	153
4.32.31 Sack kraft	..	..	..	..	..	..
4.32.32 Other kraft wrapping + packaging	..	..	..	..	..	..
4.32.4 Folding boxboard	97	97	97	97	97	97
4.32.41 Pulp based	-	-	-	-	-	-
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	-	-	-	-	-	-
4.32.42 Waste paper based	97	97	97	97	97	97
4.32.5 Other wrapping + packaging n.e.s.	23	23	23	23	23	23
4.32.51 Wrapping paper	..	..	..	..	..	..
4.32.52 Packaging paperboard	..	..	..	..	..	..
4.33 Other paper + board, n.e.s. total	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

42 Country: BANGLADESH

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	40	-	40	-	40	-	40	-	40	40
1.1 Mechanical	18	-	18	-	18	-	18	-	18	18
1.11 of which non-coniferous	..	-	..	-	..	-	..	-	..	..
1.12 coniferous	..	-	..	-	..	-	..	-	..	..
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	22	-	22	-	22	-	22	-	22	22
1.31 of which non-coniferous	..	-	..	-	..	-	..	-	..	..
1.32 coniferous	..	-	..	-	..	-	..	-	..	..
1.4 Chemical, total	-	-	-	-	-	-	-	-	-	-
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	-	-	-	-
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-

2. Other fibre pulp*, total	71	..	74	..	77	..	77	..	77	77
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	20	..	20	..	20	..	20	..	20	20
2.3 Bamboo	30	..	30	..	30	..	30	..	30	30
2.4 Other	21	21	24	24	27	27	27	27	27	27

3. Dissolving pulp <sup>ø</sup>	5	-	5	-	5	-	5	-	5	5
3.1 of which non-coniferous	..	-	..	-	..	-	..	-	..	..
3.2 coniferous	..	-	..	-	..	-	..	-	..	..

\* for making paper + paperboard

x including semi-bleached

<sup>ø</sup> of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

42 Country: BANGLADESH

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	142	142	146	147	148	149
4.1 Newsprint	54	54	54	54	54	54
4.2 Other printing + writing, total	71	71	71	71	71	71
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	71	71	71	71	71	71
4.22.1 Wood containing	12	12	12	12	12	12
4.22.2 Wood free	59	59	59	59	59	59
4.3 Other paper + paperboard, total	17	17	21	22	23	24
4.31 Household + sanitary	-	-	-	-	-	-
4.32 Wrapping + packaging, total	17	17	21	22	23	24
4.32.1 Linerboard	..	..	..	..	..	..
4.32.11 Kraft liner	..	..	..	..	..	..
4.32.11.1 Unbleached	..	..	..	..	..	..
4.32.11.4 Bleached	..	..	..	..	..	..
4.32.12 Other linerboard	..	..	..	..	..	..
4.32.2 Fluting medium	..	..	..	..	..	..
4.32.21 Semi-chemical	..	..	..	..	..	..
4.32.22 Other fluting medium	..	..	..	..	..	..
4.32.3 Kraft wrapping + packaging	..	..	..	..	..	..
4.32.31 Sack kraft	..	..	..	..	..	..
4.32.32 Other kraft wrapping + packaging	..	..	..	..	..	..
4.32.4 Folding boxboard	..	..	..	..	..	..
4.32.41 Pulp based	..	..	..	..	..	..
4.32.41.1 Bleached chemical	..	..	..	..	..	..
4.32.41.2 Other pulp based	..	..	..	..	..	..
4.32.42 Waste paper based	..	..	..	..	..	..
4.32.5 Other wrapping + packaging n.e.s.	..	..	..	..	..	..
4.32.51 Wrapping paper	..	..	..	..	..	..
4.32.52 Packaging paperboard	..	..	..	..	..	..
4.33 Other paper + board, n.e.s. total	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

43 Country: BURMA

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	-	-	-	-	-	-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-	-	-	-	-
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	-	-	-	-	-	-	-	-	-	-
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	-	-	-	-
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-

2. Other fibre pulp*, total	12	-	12	-	12	-	16	-	17	18
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	12	-	12	-	12	-	16	-	17	18
2.4 Other	-	-	-	-	-	-	-	-	-	-

3. Dissolving pulp <sup>ø</sup>	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

<sup>ø</sup> of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

43 Country: BURMA

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	15	16	16	21	22	23
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing + writing, total	14	15	15	15	15	15
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	14	15	15	15	15	15
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	14	15	15	15	15	15
4.3 Other paper + paperboard, total	1	1	1	6	7	8
4.31 Household + sanitary	-	-	-	-	-	-
4.32 Wrapping + packaging, total	1	1	1	6	7	8
4.32.1 Linerboard	-	-	-	-	-	-
4.32.11 Kraft liner	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium	-	-	-	-	-	-
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	-	-	-	-	-	-
4.32.3 Kraft wrapping + packaging	1	1	1	6	7	8
4.32.31 Sack kraft	-	-	-	5	6	7
4.32.32 Other kraft wrapping + packaging	1	1	1	1	1	1
4.32.4 Folding boxboard	-	-	-	-	-	-
4.32.41 Pulp based	-	-	-	-	-	-
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	-	-	-	-	-	-
4.32.42 Waste paper based	-	-	-	-	-	-
4.32.5 Other wrapping + packaging n.e.s.	-	-	-	-	-	-
4.32.51 Wrapping paper	-	-	-	-	-	-
4.32.52 Packaging paperboard	-	-	-	-	-	-
4.33 Other paper + board, n.e.s. total	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

44 Country: CHINA (a)

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	2,500	..	2,610	..	2,720	..	2,830	..	2,940	3,050
1.1 Mechanical	920	..	960	..	1,000	..	1,040	..	1,080	1,120
1.11 of which non-coniferous	..	..	..	..	..	..	..	..	..	..
1.12 coniferous	..	..	..	..	..	..	..	..	..	..
1.2 Thermo-mechanical	..	..	..	..	..	..	..	..	..	..
1.21 of which non-coniferous	..	..	..	..	..	..	..	..	..	..
1.22 coniferous	..	..	..	..	..	..	..	..	..	..
1.3 Semi-chemical	..	..	..	..	..	..	..	..	..	..
1.31 of which non-coniferous	..	..	..	..	..	..	..	..	..	..
1.32 coniferous	..	..	..	..	..	..	..	..	..	..
1.4 Chemical, total	1,580	..	1,650	..	1,720	..	1,790	..	1,860	1,930
1.41 Unbleached sulphite	..	..	..	..	..	..	..	..	..	..
1.41.1 of which non-coniferous	..	..	..	..	..	..	..	..	..	..
1.41.2 coniferous	..	..	..	..	..	..	..	..	..	..
1.42 Bleached sulphite x	..	..	..	..	..	..	..	..	..	..
1.42.1 of which non-coniferous	..	..	..	..	..	..	..	..	..	..
1.42.2 coniferous	..	..	..	..	..	..	..	..	..	..
1.43 Unbl. sulphate+soda	..	..	..	..	..	..	..	..	..	..
1.43.1 of which non-coniferous	..	..	..	..	..	..	..	..	..	..
1.43.2 coniferous	..	..	..	..	..	..	..	..	..	..
1.44 Bl. sulphate+soda x	..	..	..	..	..	..	..	..	..	..
1.44.1 of which non-coniferous	..	..	..	..	..	..	..	..	..	..
1.44.2 coniferous	..	..	..	..	..	..	..	..	..	..

2. Other fibre pulp*, total	5,250	..	5,410	..	5,570	..	5,730	..	5,890	6,050
2.1 Straw	..	..	..	..	..	..	..	..	..	..
2.2 Bagasse	425	..	425	..	425	..	425	..	425	425
2.3 Bamboo	..	..	..	..	..	..	..	..	..	..
2.4 Other	..	..	..	..	..	..	..	..	..	..

3. Dissolving pulp <sup>ø</sup>	40	..	40	..	40	..	40	..	40	40
3.1 of which non-coniferous	40	..	40	..	40	..	40	..	40	40
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

ø of wood + other raw materials.

(a) Secretariat estimates

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

44 Country: CHINA (a)

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	8,750	9,000	9,250	9,500	9,750	10,000
4.1 Newsprint	950	980	1,010	1,040	1,070	1,100
4.2 Other printing + writing, total	2,350	2,420	2,490	2,560	2,630	2,700
4.21 Coated	..	..	..	..	..	..
4.21.1 Wood containing	..	..	..	..	..	..
4.21.2 Wood free	..	..	..	..	..	..
4.22 Uncoated	..	..	..	..	..	..
4.22.1 Wood containing	..	..	..	..	..	..
4.22.2 Wood free	..	..	..	..	..	..
4.3 Other paper + paperboard, total	5,450	5,600	5,750	5,900	6,050	6,200
4.31 Household + sanitary	..	..	..	..	..	..
4.32 Wrapping + packaging, total	..	..	..	..	..	..
4.32.1 Linerboard	..	..	..	..	..	..
4.32.11 Kraft liner	..	..	..	..	..	..
4.32.11.1 Unbleached	..	..	..	..	..	..
4.32.11.2 Bleached	..	..	..	..	..	..
4.32.12 Other linerboard	..	..	..	..	..	..
4.32.2 Fluting medium	..	..	..	..	..	..
4.32.21 Semi-chemical	..	..	..	..	..	..
4.32.22 Other fluting medium	..	..	..	..	..	..
4.32.3 Kraft wrapping + packaging	..	..	..	..	..	..
4.32.31 Sack kraft	..	..	..	..	..	..
4.32.32 Other kraft wrapping + packaging	..	..	..	..	..	..
4.32.4 Folding boxboard	..	..	..	..	..	..
4.32.41 Pulp based	..	..	..	..	..	..
4.32.41.1 Bleached chemical	..	..	..	..	..	..
4.32.41.2 Other pulp based	..	..	..	..	..	..
4.32.42 Waste paper based	..	..	..	..	..	..
4.32.5 Other wrapping + packaging n.e.s.	..	..	..	..	..	..
4.32.51 Wrapping paper	..	..	..	..	..	..
4.32.52 Packaging paperboard	..	..	..	..	..	..
4.33 Other paper + board, n.e.s. total	..	..	..	..	..	..
4.33.1 Paper, n.e.s.	..	..	..	..	..	..
4.33.2 Paperboard, n.e.s.	..	..	..	..	..	..

(a) Secretariat estimates

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

45 Country: CYPRUS

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	-	-	-	-	-	-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-	-	-	-	-
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	-	-	-	-	-	-	-	-	-	-
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	-	-	-	-
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-
2. Other fibre pulp*, total	-	-	-	-	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-
3. Dissolving pulp #	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

# of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

45 Country: CYPRUS

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	2	12	15	17	17	17
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing + writing, total	-	-	-	-	-	-
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	-	-	-	-	-	-
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	-	-	-	-	-	-
4.3 Other paper + paperboard, total	2	12	15	17	17	17
4.31 Household + sanitary	2	2	2	2	2	2
4.32 Wrapping + packaging, total	-	10	13	15	15	15
4.32.1 Linerboard	-	7	9	10	10	10
4.32.11 Kraft liner	-	7	9	10	10	10
4.32.11.1 Unbleached	-	..	..	..	..	..
4.32.11.4 Bleached	-	..	..	..	..	..
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium	-	3	4	5	5	5
4.32.21 Semi-chemical	-	..	..	..	..	..
4.32.22 Other fluting medium	-	..	..	..	..	..
4.32.3 Kraft wrapping + packaging	-	-	-	-	-	-
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping + packaging	-	-	-	-	-	-
4.32.4 Folding boxboard	-	-	-	-	-	-
4.32.41 Pulp based	-	-	-	-	-	-
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	-	-	-	-	-	-
4.32.42 Waste paper based	-	-	-	-	-	-
4.32.5 Other wrapping + packaging n.e.s.	-	-	-	-	-	-
4.32.51 Wrapping paper:	-	-	-	-	-	-
4.32.52 Packaging paperboard	-	-	-	-	-	-
4.33 Other paper + board, n.e.s. total	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

46 Country: HONG KONG

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	-	-	-	-	-	-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-	-	-	-	-
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	-	-	-	-	-	-	-	-	-	-
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	-	-	-	-
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-
2. Other fibre pulp*, total	-	-	-	-	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-
3. Dissolving pulp <sup>ø</sup>	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

ø of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

46 Country: HONG KONG

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	17	17	17	17	18	20
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing + writing, total	-	-	-	-	-	-
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	-	-	-	-	-	-
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	-	-	-	-	-	-
4.3 Other paper + paperboard, total	17	17	17	17	18	20
4.31 Household + sanitary	2	2	2	2	2	3
4.32 Wrapping + packaging, total	15	15	15	15	16	17
4.32.1 Linerboard	-	-	-	-	-	-
4.32.11 Kraft liner	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium	15	15	15	15	16	17
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	15	15	15	15	16	17
4.32.3 Kraft wrapping + packaging	-	-	-	-	-	-
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping + packaging	-	-	-	-	-	-
4.32.4 Folding boxboard	-	-	-	-	-	-
4.32.41 Pulp based	-	-	-	-	-	-
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	-	-	-	-	-	-
4.32.42 Waste paper based	-	-	-	-	-	-
4.32.5 Other wrapping + packaging n.e.s.	-	-	-	-	-	-
4.32.51 Wrapping paper	-	-	-	-	-	-
4.32.52 Packaging paperboard	-	-	-	-	-	-
4.33 Other paper + board, n.e.s. total	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

47 Country: INDIA

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	440	-	498	-	536	-	546	-	548	548
1.1 Mechanical	44	-	67	-	75	-	77	-	77	77
1.11 of which non-coniferous	44	-	67	-	75	-	77	-	77	77
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	44	-	67	-	75	-	77	-	77	77
1.31 of which non-coniferous	44	-	67	-	75	-	77	-	77	77
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	352	-	364	-	386	-	392	-	394	394
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	176	-	182	-	193	-	196	-	197	197
1.43.1 of which non-coniferous	176	-	182	-	193	-	196	-	197	197
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	176	-	182	-	193	-	196	-	197	197
1.44.1 of which non-coniferous	176	-	182	-	193	-	196	-	197	197
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-
2. Other fibre pulp*, total	1,254	25	1,416	25	1,522	25	1,553	25	1,560	1,560
2.1 Straw	200	-	220	-	220	-	220	-	220	220
2.2 Bagasse	25	-	30	-	30	-	30	-	30	30
2.3 Bamboo	829	25	936	25	1,042	25	1,073	25	1,080	1,080
2.4 Other	200	-	230	-	230	-	230	-	230	230
3. Dissolving pulp $\phi$	150	150	176	176	176	176	176	176	196	196
3.1 of which non-coniferous	150	150	176	176	176	176	176	176	196	196
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

 $\phi$  of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

47 Country: INDIA

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	1,643	1,856	1,995	2,035	2,045	2,045
4.1 Newsprint	131	200	223	230	230	230
4.2 Other printing + writing, total	862	944	1,010	1,030	1,035	1,035
4.21 Coated	40	40	40	40	40	40
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	40	40	40	40	40	40
4.22 Uncoated	822	904	970	990	995	995
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	822	904	970	990	995	995
4.3 Other paper + paperboard, total	650	712	762	775	780	780
4.31 Household + sanitary	10	10	10	10	10	10
4.32 Wrapping + packaging, total	640	702	752	765	770	770
4.32.1 Linerboard	30	60	60	60	60	60
4.32.11 Kraft liner	30	60	60	60	60	60
4.32.11.1 Unbleached	30	60	60	60	60	60
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium	-	-	-	-	-	-
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	-	-	-	-	-	-
4.32.3 Kraft wrapping + packaging	300	330	345	360	365	365
4.32.31 Sack kraft	5	10	10	10	10	10
4.32.32 Other kraft wrapping + packaging	295	320	335	350	355	355
4.32.4 Folding boxboard	-	-	-	-	-	-
4.32.41 Pulp based	-	-	-	-	-	-
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	-	-	-	-	-	-
4.32.42 Waste paper based	-	-	-	-	-	-
4.32.5 Other wrapping + packaging n.e.s.	310	312	347	345	345	345
4.32.51 Wrapping paper	-	-	-	-	-	-
4.32.52 Packaging paperboard	310	312	347	345	345	345
4.33 Other paper + board, n.e.s. total	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

48 Country: INDONESIA

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	8	-	8	-	8	-	8	-	8	8
1.1 Mechanical	-	-	-	-	-	-	-	-	-	-
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	8	-	8	-	8	-	8	-	8	8
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	8	-	8	-	8	-	8	-	8	8
1.43.1 of which non-coniferous	..	-	..	-	..	-	..	-	..	..
1.43.2 coniferous	..	-	..	-	..	-	..	-	..	..
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	-	-	-	-
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-

2. Other fibre pulp*, total	63	-	65	-	65	-	65	-	65	94
2.1 Straw	43	-	45	-	45	-	45	-	45	45
2.2 Bagasse	6	-	6	-	6	-	6	-	6	35
2.3 Bamboo	14	-	14	-	14	-	14	-	14	14
2.4 Other	-	-	-	-	-	-	-	-	-	-

3. Dissolving pulp †	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

† of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

48 Country: INDONESIA

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	129	182	239	279	299	334
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing + writing, total	101	141	167	183	190	221
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	101	141	167	183	190	221
4.22.1 Wood containing	..	..	..	..	..	..
4.22.2 Wood free	..	..	..	..	..	..
4.3 Other paper + paperboard, total	28	41	72	96	109	113
4.31 Household + sanitary	2	2	2	2	2	2
4.32 Wrapping + packaging, total	24	37	64	86	98	102
4.32.1 Linerboard	..	..	..	..	..	..
4.32.11 Kraft liner	..	..	..	..	..	..
4.32.11.1 Unbleached	..	..	..	..	..	..
4.32.11.1 Bleached	..	..	..	..	..	..
4.32.12 Other linerboard	..	..	..	..	..	..
4.32.2 Fluting medium	..	..	..	..	..	..
4.32.21 Semi-chemical	..	..	..	..	..	..
4.32.22 Other fluting medium	..	..	..	..	..	..
4.32.3 Kraft wrapping + packaging	..	..	..	..	..	..
4.32.31 Sack kraft	..	..	..	..	..	..
4.32.32 Other kraft wrapping + packaging	..	..	..	..	..	..
4.32.4 Folding boxboard	..	..	..	..	..	..
4.32.41 Pulp based	..	..	..	..	..	..
4.32.41.1 Bleached chemical	..	..	..	..	..	..
4.32.41.2 Other pulp based	..	..	..	..	..	..
4.32.42 Waste paper based	..	..	..	..	..	..
4.32.5 Other wrapping + packaging n.e.s.	..	..	..	..	..	..
4.32.51 Wrapping paper	..	..	..	..	..	..
4.32.52 Packaging paperboard	..	..	..	..	..	..
4.33 Other paper + board, n.e.s. total	2	2	6	8	9	9
4.33.1 Paper, n.e.s.	2	2	6	8	9	9
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

49 Country: IRAN

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	-	-	60	-	85	-	110	-	120	225
1.1 Mechanical	-	-	-	-	-	-	-	-	-	-
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	90
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	90
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	-	-	60	-	85	-	110	-	120	135
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	15
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	15
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	60	-	85	-	110	-	120	120
1.43.1 of which non-coniferous	-	-	60	-	85	-	110	-	120	120
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	-	-	-	-
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-
2. Other fibre pulp*, total	60	-	60	-	60	-	60	-	60	60
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	60	-	60	-	60	-	50	-	60	60
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-
3. Dissolving pulp $\phi$	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

$\phi$  of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

49 Country: IRAN

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	139	209	244	269	289	389
4.1 Newsprint	-	-	-	-	-	20
4.2 Other printing + writing, total	90	90	90	90	90	110
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	90	90	90	90	90	110
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	90	90	90	90	90	110
4.3 Other paper + paperboard, total	49	119	154	179	199	259
4.31 Household + sanitary	9	9	9	9	9	9
4.32 Wrapping + packaging, total	40	110	145	170	190	250
4.32.1 Linerboard	-	30	40	55	60	60
4.32.11 Kraft liner	-	30	40	55	60	60
4.32.11.1 Unbleached	-	30	40	55	60	60
4.32.11.4 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium	-	20	30	35	40	80
4.32.21 Semi-chemical	-	20	30	35	40	80
4.32.22 Other fluting medium	-	-	-	-	-	-
4.32.3 Kraft wrapping + packaging	25	40	50	55	60	60
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping + packaging	25	40	50	55	60	60
4.32.4 Folding boxboard	-	-	-	-	-	20
4.32.41 Pulp based	-	-	-	-	-	20
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	-	-	-	-	-	20
4.32.42 Waste paper based	-	-	-	-	-	-
4.32.5 Other wrapping + packaging n. e. s.	15	20	25	25	30	30
4.32.51 Wrapping paper	-	-	-	-	-	-
4.32.52 Packaging paperboard	15	20	25	25	30	30
4.33 Other paper + board, n. e. s. total	-	-	-	-	-	-
4.33.1 Paper, n. e. s.	-	-	-	-	-	-
4.33.2 Paperboard, n. e. s.	-	-	-	-	-	-

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

50 Country: IRAQ

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	-	-	-	-	-	-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-	-	-	-	-
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	-	-	-	-	-	-	-	-	-	-
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	-	-	-	-
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-

2. Other fibre pulp*, total	34	-	52	-	69	-	83	-	92	101
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	6	-	10	-	14	-	18	-	22	27
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	28	-	42	-	55	-	67	-	70	74

3. Dissolving pulp <sup>ø</sup>	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

<sup>ø</sup> of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

50 Country: IRAQ

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	56	74	93	111	122	122
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing + writing, total	23	29	35	41	41	41
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	23	29	35	41	41	41
4.22.1 Wood containing	..	..	..	..	..	..
4.22.2 Wood free	..	..	..	..	..	..
4.3 Other paper + paperboard, total	33	45	58	70	81	81
4.31 Household + sanitary	2	3	4	5	5	5
4.32 Wrapping + packaging, total	31	42	54	65	76	76
4.32.1 Linerboard	15	15	15	15	15	15
4.32.11 Kraft liner	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	15	15	15	15	15	15
4.32.2 Fluting medium	-	-	-	-	-	-
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	-	-	-	-	-	-
4.32.3 Kraft wrapping + packaging	2	9	16	23	30	30
4.32.31 Sack kraft	..	..	..	..	..	..
4.32.32 Other kraft wrapping + packaging	..	..	..	..	..	..
4.32.4 Folding boxboard	11	15	20	24	28	28
4.32.41 Pulp based	11	15	20	24	28	28
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	11	15	20	24	28	28
4.32.42 Waste paper based	-	-	-	-	-	-
4.32.5 Other wrapping + packaging n. e. s.	3	3	3	3	3	3
4.32.51 Wrapping paper	-	-	-	-	-	-
4.32.52 Packaging paperboard	3	3	3	3	3	3
4.33 Other paper + board, n. e. s. total	-	-	-	-	-	-
4.33.1 Paper, n. e. s.	-	-	-	-	-	-
4.33.2 Paperboard, n. e. s.	-	-	-	-	-	-

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

51 Country: ISRAEL

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	-	-	-	-	-	-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-	-	-	-	-
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	-	-	-	-	-	-	-	-	-	-
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	-	-	-	-
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-
2. Other fibre pulp*, total	-	-	-	-	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-
3. Dissolving pulp †	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

† of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

51 Country: ISRAEL

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	130	134	140	177	190	196
4.1 Newsprint	18	18	19	20	20	20
4.2 Other printing + writing, total	44	45	46	53	55	56
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	44	45	46	53	55	56
4.22.1 Wood containing	4	5	5	5	5	5
4.22.2 Wood free	40	40	41	48	50	51
4.3 Other paper + paperboard, total	68	71	75	104	115	120
4.31 Household + sanitary	15	16	18	33	40	43
4.32 Wrapping + packaging, total	49	51	53	67	71	73
4.32.1 Linerboard	-	-	-	-	-	-
4.32.11 Kraft liner	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.4 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium	20	20	21	28	30	31
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	20	20	21	28	30	31
4.32.3 Kraft wrapping + packaging	6	6	6	6	6	6
4.32.31 Sack kraft	2	2	2	2	2	2
4.32.32 Other kraft wrapping + packaging	4	4	4	4	4	4
4.32.4 Folding boxboard	18	20	21	28	30	31
4.32.41 Pulp based	-	-	-	-	-	-
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	-	-	-	-	-	-
4.32.42 Waste paper based	18	20	21	28	30	31
4.32.5 Other wrapping + packaging n.e.s.	5	5	5	5	5	5
4.32.51 Wrapping paper	5	5	5	5	5	5
4.32.52 Packaging paperboard	-	-	-	-	-	-
4.33 Other paper + board, n.e.s. total	4	4	4	4	4	4
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	4	4	4	4	4	4

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

52 Country: JAPAN

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	12,377	1,165	12,573	1,165	12,777	1,165	13,179	1,165	13,519	13,519
1.1 Mechanical	1,528	30	1,529	30	1,529	30	1,529	30	1,529	1,529
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	1,528	30	1,529	30	1,529	30	1,529	30	1,529	1,529
1.2 Thermo-mechanical	807	-	964	-	990	-	1,068	-	1,168	1,168
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	807	-	964	-	990	-	1,068	-	1,168	1,168
1.3 Semi-chemical	1,919	65	1,921	65	1,935	65	1,949	65	1,949	1,949
1.31 of which non-coniferous	1,804	65	1,806	65	1,819	65	1,832	65	1,832	1,832
1.32 coniferous	115	-	115	-	116	-	117	-	117	117
1.4 Chemical, total	8,123	1,070	8,159	1,070	8,323	1,070	8,633	1,070	8,873	8,873
1.41 Unbleached sulphite	299	40	299	40	299	40	299	40	299	299
1.41.1 of which non-coniferous	12	15	12	15	12	15	12	15	12	12
1.41.2 coniferous	287	25	287	25	287	25	287	25	287	287
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	3,204	290	3,204	290	3,288	290	3,406	290	3,467	3,467
1.43.1 of which non-coniferous	833	50	833	50	855	50	886	50	901	901
1.43.2 coniferous	2,371	240	2,371	240	2,433	240	2,520	240	2,566	2,566
1.44 Bl. sulphate+soda x	4,620	740	4,656	740	4,736	740	4,928	740	5,107	5,107
1.44.1 of which non-coniferous	3,835	590	3,864	590	3,931	590	4,090	590	4,239	4,239
1.44.2 coniferous	785	150	792	150	805	150	838	150	868	868
2. Other fibre pulp*, total	4	4	4	4	4	4	4	4	4	4
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	4	4	4	4	4	4	4	4	4	4
3. Dissolving pulp †	479	479	479	479	479	479	479	479	479	479
3.1 of which non-coniferous	441	441	441	441	441	441	441	441	441	441
3.2 coniferous	38	38	38	38	38	38	38	38	38	38

\* for making paper + paperboard

x including semi-bleached

† of wood + other raw materials.

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

52 Country: JAPAN

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	21,453	21,602	22,601	23,446	24,294	24,996
4.1 Newsprint	2,707	2,866	2,986	3,130	3,296	3,644
4.2 Other printing + writing, total	4,405	4,736	5,163	5,501	5,794	5,911
4.21 Coated	1,509	1,693	2,005	2,258	2,399	2,417
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	2,896	3,043	3,158	3,243	3,395	3,494
4.22.1 Wood containing	1,596	1,713	1,769	1,823	1,883	1,901
4.22.2 Wood free	1,300	1,330	1,389	1,420	1,512	1,593
4.3 Other paper + paperboard, total	14,341	14,000	14,452	14,815	15,204	15,441
4.31 Household + sanitary	930	979	1,029	1,066	1,091	1,117
4.32 Wrapping + packaging, total	10,544	10,002	10,323	10,587	10,878	11,056
4.32.1 Linerboard	4,208	3,937	4,016	4,096	4,246	4,331
4.32.11 Kraft liner	1,913	1,873	1,910	1,948	1,987	2,027
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	2,295	2,064	2,106	2,148	2,259	2,304
4.32.2 Fluting medium	2,689	2,418	2,446	2,515	2,615	2,667
4.32.21 Semi-chemical	1,974	1,795	1,831	1,867	1,905	1,943
4.32.22 Other fluting medium	715	623	635	648	710	724
4.32.3 Kraft wrapping + packaging	1,426	1,405	1,481	1,524	1,540	1,556
4.32.31 Sack kraft	928	897	919	949	959	969
4.32.32 Other kraft wrapping + packaging	498	508	562	575	581	587
4.32.4 Folding boxboard	1,755	1,772	1,884	1,972	1,992	2,012
4.32.41 Pulp based	569	574	651	684	691	698
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	-	-	-	-	-	-
4.32.42 Waste paper based	1,186	1,198	1,233	1,288	1,301	1,314
4.32.5 Other wrapping + packaging n.e.s.	466	470	476	480	485	490
4.32.51 Wrapping paper	-	-	-	-	-	-
4.32.52 Packaging paperboard	466	470	476	480	485	490
4.33 Other paper + board, n.e.s. total	2,867	3,019	3,100	3,162	3,235	3,268
4.33.1 Paper, n.e.s.	1,861	1,999	2,066	2,118	2,181	2,203
4.33.2 Paperboard, n.e.s.	1,006	1,020	1,034	1,044	1,054	1,065

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

53 Country: JORDAN

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	-	-	-	-	-	-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-	-	-	-	-
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	-	-	-	-	-	-	-	-	-	-
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	-	-	-	-
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-
2. Other fibre pulp*, total	12	-	12	-	12	-	12	-	12	12
2.1 Straw	4	-	4	-	4	-	4	-	4	4
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	8	-	8	-	8	-	8	-	8	8
3. Dissolving pulp $\phi$	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

 $\phi$  of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

53 Country: JORDAN

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	10	10	10	10	10	10
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing + writing, total	-	-	-	-	-	-
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	-	-	-	-	-	-
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	-	-	-	-	-	-
4.3 Other paper + paperboard, total	10	10	10	10	10	10
4.31 Household + sanitary	-	-	-	-	-	-
4.32 Wrapping + packaging, total	10	10	10	10	10	10
4.32.1 Linerboard	-	-	-	-	-	-
4.32.11 Kraft liner	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.4 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium	5	5	5	5	5	5
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	5	5	5	5	5	5
4.32.3 Kraft wrapping + packaging	-	-	-	-	-	-
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping + packaging	-	-	-	-	-	-
4.32.4 Folding boxboard	-	-	-	-	-	-
4.32.41 Pulp based	-	-	-	-	-	-
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	-	-	-	-	-	-
4.32.42 Waste paper based	-	-	-	-	-	-
4.32.5 Other wrapping + packaging n.e.s.	5	5	5	5	5	5
4.32.51 Wrapping paper	-	-	-	-	-	-
4.32.52 Packaging paperboard	5	5	5	5	5	5
4.33 Other paper + board, n.e.s. total	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

54 Country: KAMPUCHEA, DEMOCRATIC

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	-	-	-	-	-	-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-	-	-	-	-
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	-	-	-	-	-	-	-	-	-	-
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	-	-	-	-
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-

2. Other fibre pulp*, total	6	-	6	-	6	-	6	-	6	6
2.1 Straw	5	-	5	-	5	-	5	-	5	5
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	1	-	1	-	1	-	1	-	1	1
2.4 Other	-	-	-	-	-	-	-	-	-	-

3. Dissolving pulp <sup>ø</sup>	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

ø of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

54 Country: KAMPUCHEA, DEMOCRATIC

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	5	5	5	5	5	5
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing + writing, total	3	3	3	3	3	3
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	3	3	3	3	3	3
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	3	3	3	3	3	3
4.3 Other paper + paperboard, total	2	2	2	2	2	2
4.31 Household + sanitary	-	-	-	-	-	-
4.32 Wrapping + packaging, total	2	2	2	2	2	2
4.32.1 Linerboard	-	-	-	-	-	-
4.32.11 Kraft liner	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.1.1 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium	-	-	-	-	-	-
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	-	-	-	-	-	-
4.32.3 Kraft wrapping + packaging	-	-	-	-	-	-
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping + packaging	-	-	-	-	-	-
4.32.4 Folding boxboard	-	-	-	-	-	-
4.32.41 Pulp based	-	-	-	-	-	-
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	-	-	-	-	-	-
4.32.42 Waste paper based	-	-	-	-	-	-
4.32.5 Other wrapping + packaging n.e.s.	2	2	2	2	2	2
4.32.51 Wrapping paper	2	2	2	2	2	2
4.32.52 Packaging paperboard	-	-	-	-	-	-
4.33 Other paper + board, n.e.s. total	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

55 Country: KOREA, DEM. PEOPLE'S REP. OF (a)

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	51	-	56	-	56	-	56	-	56	56
1.1 Mechanical	12	-	13	-	13	-	13	-	13	13
1.11 of which non-coniferous	..	-	..	-	..	-	..	-	..	..
1.12 coniferous	..	-	..	-	..	-	..	-	..	..
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	39	-	43	-	43	-	43	-	43	43
1.41 Unbleached sulphite	..	-	..	-	..	-	..	-	..	..
1.41.1 of which non-coniferous	..	-	..	-	..	-	..	-	..	..
1.41.2 coniferous	..	-	..	-	..	-	..	-	..	..
1.42 Bleached sulphite x	..	-	..	-	..	-	..	-	..	..
1.42.1 of which non-coniferous	..	-	..	-	..	-	..	-	..	..
1.42.2 coniferous	..	-	..	-	..	-	..	-	..	..
1.43 Unbl. sulphate+soda	..	-	..	-	..	-	..	-	..	..
1.43.1 of which non-coniferous	..	-	..	-	..	-	..	-	..	..
1.43.2 coniferous	..	-	..	-	..	-	..	-	..	..
1.44 Bl. sulphate+soda x	29	-	33	-	33	-	43	-	43	43
1.44.1 of which non-coniferous	..	-	..	-	..	-	..	-	..	..
1.44.2 coniferous	..	-	..	-	..	-	..	-	..	..

2. Other fibre pulp*, total	50	-	50	-	50	-	50	-	50	50
2.1 Straw	..	-	..	-	..	-	..	-	..	..
2.2 Bagasse	..	-	..	-	..	-	..	-	..	..
2.3 Bamboo	..	-	..	-	..	-	..	-	..	..
2.4 Other	..	-	..	-	..	-	..	-	..	..

3. Dissolving pulp $\phi$	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

 $\phi$  of wood + other raw materials.

(a) Secretariat estimates

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

55 Country: KOREA, DEM. PEOPLE'S REP. OF (a)

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	136	140	140	140	140	140
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing + writing, total (b)	27	30	30	30	30	30
4.21 Coated	..	..	..	..	..	..
4.21.1 Wood containing	..	..	..	..	..	..
4.21.2 Wood free	..	..	..	..	..	..
4.22 Uncoated	..	..	..	..	..	..
4.22.1 Wood containing	..	..	..	..	..	..
4.22.2 Wood free	..	..	..	..	..	..
4.3 Other paper + paperboard, total	109	110	110	110	110	110
4.31 Household + sanitary	..	..	..	..	..	..
4.32 Wrapping + packaging, total	..	..	..	..	..	..
4.32.1 Linerboard	..	..	..	..	..	..
4.32.11 Kraft liner	..	..	..	..	..	..
4.32.11.1 Unbleached	..	..	..	..	..	..
4.32.11.1 Bleached	..	..	..	..	..	..
4.32.12 Other linerboard	..	..	..	..	..	..
4.32.2 Fluting medium	..	..	..	..	..	..
4.32.21 Semi-chemical	..	..	..	..	..	..
4.32.22 Other fluting medium	..	..	..	..	..	..
4.32.3 Kraft wrapping + packaging	..	..	..	..	..	..
4.32.31 Sack kraft	..	..	..	..	..	..
4.32.32 Other kraft wrapping + packaging	..	..	..	..	..	..
4.32.4 Folding boxboard (b)	9	10	10	10	10	10
4.32.41 Pulp based	..	..	..	..	..	..
4.32.41.1 Bleached chemical	..	..	..	..	..	..
4.32.41.2 Other pulp based	..	..	..	..	..	..
4.32.42 Waste paper based	..	..	..	..	..	..
4.32.5 Other wrapping + packaging n.e.s.	..	..	..	..	..	..
4.32.51 Wrapping paper	..	..	..	..	..	..
4.32.52 Packaging paperboard	..	..	..	..	..	..
4.33 Other paper + board, n.e.s. total	..	..	..	..	..	..
4.33.1 Paper, n.e.s.	..	..	..	..	..	..
4.33.2 Paperboard, n.e.s.	..	..	..	..	..	..

(a) Secretariat estimates

(b) Additional capacity only

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

56 Country: KOREA, REP. OF

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	181	13	269	83	294	103	312	118	312	312
1.1 Mechanical	181	13	199	13	204	13	207	13	207	207
1.11 of which non-coniferous	..	..	..	..	..	..	..	..	..	..
1.12 coniferous	..	..	..	..	..	..	..	..	..	..
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	-	-	70	70	90	90	105	105	105	105
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	-	-	70	70	90	90	105	105	105	105
1.44.1 of which non-coniferous	-	-	35	35	45	45	50	50	50	50
1.44.2 coniferous	-	-	35	35	45	45	55	55	55	55

2. Other fibre pulp*, total	-	-	-	-	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-

3. Dissolving pulp $\phi$	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

 $\phi$  of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

56 Country: KOREA, REP. OF

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	1,837	2,056	2,273	2,377	2,450	2,469
4.1 Newsprint	266	311	326	332	332	332
4.2 Other printing + writing, total	218	272	378	446	466	470
4.21 Coated	60	95	95	95	95	95
4.21.1 Wood containing	60	95	95	95	95	95
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	158	177	283	351	371	375
4.22.1 Wood containing	..	..	..	..	..	..
4.22.2 Wood free	..	..	..	..	..	..
4.3 Other paper + paperboard, total	1,353	1,473	1,569	1,599	1,652	1,667
4.31 Household + sanitary	18	23	24	25	25	25
4.32 Wrapping + packaging, total	1,109	1,224	1,319	1,348	1,401	1,416
4.32.1 Linerboard	316	354	403	418	468	483
4.32.11 Kraft liner	287	325	374	389	439	454
4.32.11.1 Unbleached	287	325	374	389	439	454
4.32.11.1 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	29	29	29	29	29	29
4.32.2 Fluting medium	194	216	224	227	227	227
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	194	216	224	227	227	227
4.32.3 Kraft wrapping + packaging	252	262	285	290	293	293
4.32.31 Sack kraft	242	252	275	280	283	283
4.32.32 Other kraft wrapping + packaging	10	10	10	10	10	10
4.32.4 Folding boxboard	297	342	357	363	363	363
4.32.41 Pulp based	297	342	357	363	363	363
4.32.41.1 Bleached chemical	..	..	..	..	..	..
4.32.41.2 Other pulp based	..	..	..	..	..	..
4.32.42 Waste paper based	-	-	-	-	-	-
4.32.5 Other wrapping + packaging n.e.s.	50	50	50	50	50	50
4.32.51 Wrapping paper	..	..	..	..	..	..
4.32.52 Packaging paperboard	..	..	..	..	..	..
4.33 Other paper + board, n.e.s. total	226	226	226	226	226	226
4.33.1 Paper, n.e.s.	226	226	226	226	226	226
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

57 Country: LEBANON

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	-	-	-	-	-	-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-	-	-	-	-
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	-	-	-	-	-	-	-	-	-	-
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	-	-	-	-
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-
2. Other fibre pulp*, total	-	-	-	-	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-
3. Dissolving pulp $\phi$	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

$\phi$  of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

57 Country: LEBANON

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	45	45	45	45	45	45
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing + writing, total	-	-	-	-	-	-
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	-	-	-	-	-	-
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	-	-	-	-	-	-
4.3 Other paper + paperboard, total	45	45	45	45	45	45
4.31 Household + sanitary	2	2	2	2	2	2
4.32 Wrapping + packaging, total	43	43	43	43	43	43
4.32.1 Linerboard	-	-	-	-	-	-
4.32.11 Kraft liner	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.4 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium	13	13	13	13	13	13
4.32.21 Semi-chemical	..	..	..	..	..	..
4.32.22 Other fluting medium	..	..	..	..	..	..
4.32.3 Kraft wrapping + packaging	-	-	-	-	-	-
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping + packaging	-	-	-	-	-	-
4.32.4 Folding boxboard	20	20	20	20	20	20
4.32.41 Pulp based	-	-	-	-	-	-
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	-	-	-	-	-	-
4.32.42 Waste paper based	20	20	20	20	20	20
4.32.5 Other wrapping + packaging n.e.s.	10	10	10	10	10	10
4.32.51 Wrapping paper	..	..	..	..	..	..
4.32.52 Packaging paperboard	..	..	..	..	..	..
4.33 Other paper + board, n.e.s. total	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

58 Country: MALAYSIA

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	-	-	-	-	-	-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-	-	-	-	-
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	-	-	-	-	-	-	-	-	-	-
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	-	-	-	-
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-
2. Other fibre pulp*, total	-	-	-	-	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-
3. Dissolving pulp $\phi$	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

 $\phi$  of wood + other raw materials.

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

58 Country: MALAYSIA

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	50	50	50	50	50	50
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing + writing, total	-	-	-	-	-	-
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	-	-	-	-	-	-
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	-	-	-	-	-	-
4.3 Other paper + paperboard, total	50	50	50	50	50	50
4.31 Household + sanitary	13	13	13	13	13	13
4.32 Wrapping + packaging, total	25	25	25	25	25	25
4.32.1 Linerboard	-	-	-	-	-	-
4.32.11 Kraft liner	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium	11	11	11	11	11	11
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	11	11	11	11	11	11
4.32.3 Kraft wrapping + packaging	-	-	-	-	-	-
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping + packaging	-	-	-	-	-	-
4.32.4 Folding boxboard	8	8	8	8	8	8
4.32.41 Pulp based	-	-	-	-	-	-
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	-	-	-	-	-	-
4.32.42 Waste paper based	8	8	8	8	8	8
4.32.5 Other wrapping + packaging n.e.s.	6	6	6	6	6	6
4.32.51 Wrapping paper	4	4	4	4	4	4
4.32.52 Packaging paperboard	2	2	2	2	2	2
4.33 Other paper + board, n.e.s. total	12	12	12	12	12	12
4.33.1 Paper, n.e.s.	..	..	..	..	..	..
4.33.2 Paperboard, n.e.s.	..	..	..	..	..	..

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

59 Country: MONGOLIA (a)

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	-	-	-	-	-	-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-	-	-	-	-
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	-	-	-	-	-	-	-	-	-	-
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	-	-	-	-
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-
2. Other fibre pulp*, total	2	-	2	-	2	-	2	-	2	2
2.1 Straw	..	-	..	-	..	-	..	-	..	..
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	..	-	..	-	..	-	..	-	..	..
3. Dissolving pulp ø	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

ø of wood + other raw materials.

(a) Secretariat estimates

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

59 Country: MONGOLIA (a)

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	2	2	2	2	2	2
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing + writing, total	..	..	..	..	..	..
4.21 Coated	..	..	..	..	..	..
4.21.1 Wood containing	..	..	..	..	..	..
4.21.2 Wood free	..	..	..	..	..	..
4.22 Uncoated	..	..	..	..	..	..
4.22.1 Wood containing	..	..	..	..	..	..
4.22.2 Wood free	..	..	..	..	..	..
4.3 Other paper + paperboard, total	..	..	..	..	..	..
4.31 Household + sanitary	-	-	-	-	-	-
4.32 Wrapping + packaging, total	..	..	..	..	..	..
4.32.1 Linerboard	-	-	-	-	-	-
4.32.11 Kraft liner	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.1 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium	-	-	-	-	-	-
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	-	-	-	-	-	-
4.32.3 Kraft wrapping + packaging	-	-	-	-	-	-
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping + packaging	-	-	-	-	-	-
4.32.4 Folding boxboard	-	-	-	-	-	-
4.32.41 Pulp based	-	-	-	-	-	-
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	-	-	-	-	-	-
4.32.42 Waste paper based	-	-	-	-	-	-
4.32.5 Other wrapping + packaging n.e.s.	..	..	..	..	..	..
4.32.51 Wrapping paper	..	..	..	..	..	..
4.32.52 Packaging paperboard	..	..	..	..	..	..
4.33 Other paper + board, n.e.s. total	..	..	..	..	..	..
4.33.1 Paper, n.e.s.	..	..	..	..	..	..
4.33.2 Paperboard, n.e.s.	..	..	..	..	..	..

(a) Secretariat estimates

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

60 Country: NEPAL (a)

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	-	-	-	-	-	-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-	-	-	-	-
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	-	-	-	-	-	-	-	-	-	-
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	-	-	-	-
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-
2. Other fibre pulp*, total	4	-	4	-	4	-	4	-	4	4
2.1 Straw	..	-	..	-	..	-	..	-	..	..
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	..	-	..	-	..	-	..	-	..	..
3. Dissolving pulp <sup>ø</sup>	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

ø of wood + other raw materials.

(a) Secretariat estimates

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

60 Country: NEPAL (a)

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	4	4	4	4	4	4
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing + writing, total	..	..	..	..	..	..
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	..	..	..	..	..	..
4.22.1 Wood containing	..	..	..	..	..	..
4.22.2 Wood free	..	..	..	..	..	..
4.3 Other paper + paperboard, total	..	..	..	..	..	..
4.31 Household + sanitary	-	-	-	-	-	-
4.32 Wrapping + packaging, total	..	..	..	..	..	..
4.32.1 Linerboard	-	-	-	-	-	-
4.32.11 Kraft liner	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium	-	-	-	-	-	-
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	-	-	-	-	-	-
4.32.3 Kraft wrapping + packaging	-	-	-	-	-	-
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping + packaging	-	-	-	-	-	-
4.32.4 Folding boxboard	-	-	-	-	-	-
4.32.41 Pulp based	-	-	-	-	-	-
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	-	-	-	-	-	-
4.32.42 Waste paper based	-	-	-	-	-	-
4.32.5 Other wrapping + packaging n.e.s.	..	..	..	..	..	..
4.32.51 Wrapping paper	..	..	..	..	..	..
4.32.52 Packaging paperboard	..	..	..	..	..	..
4.33 Other paper + board, n.e.s. total	..	..	..	..	..	..
4.33.1 Paper, n.e.s.	..	..	..	..	..	..
4.33.2 Paperboard, n.e.s.	..	..	..	..	..	..

(a) Secretariat estimates

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

61 Country: PAKISTAN

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	-	-	-	-	-	-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-	-	-	-	-
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	-	-	-	-	-	-	-	-	-	-
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	-	-	-	-
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-

2. Other fibre pulp*, total	90	-	90	-	90	-	90	-	90	90
2.1 Straw	..	-	..	-	..	-	..	-	..	..
2.2 Bagasse	30	-	30	-	30	-	30	-	30	30
2.3 Bamboo	..	-	..	-	..	-	..	-	..	..
2.4 Other	..	-	..	-	..	-	..	-	..	..

3. Dissolving pulp <sup>ø</sup>	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

ø of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

61 Country: PAKISTAN

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	109	109	109	109	109	109
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing + writing, total	47	47	47	47	47	47
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	47	47	47	47	47	47
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	47	47	47	47	47	47
4.3 Other paper + paperboard, total	62	62	62	62	62	62
4.31 Household + sanitary	-	-	-	-	-	-
4.32 Wrapping + packaging, total	62	62	62	62	62	62
4.32.1 Linerboard	-	-	-	-	-	-
4.32.11 Kraft liner	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.4 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium	9	9	9	9	9	9
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	9	9	9	9	9	9
4.32.3 Kraft wrapping + packaging	-	-	-	-	-	-
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping + packaging	-	-	-	-	-	-
4.32.4 Folding boxboard	27	27	27	27	27	27
4.32.41 Pulp based	..	..	..	..	..	..
4.32.41.1 Bleached chemical	..	..	..	..	..	..
4.32.41.2 Other pulp based	..	..	..	..	..	..
4.32.42 Waste paper based	..	..	..	..	..	..
4.32.5 Other wrapping + packaging n. e. s.	26	26	26	26	26	26
4.32.51 Wrapping paper	6	6	6	6	6	6
4.32.52 Packaging paperboard	20	20	20	20	20	20
4.33 Other paper + board, n. e. s. total	-	-	-	-	-	-
4.33.1 Paper, n. e. s.	-	-	-	-	-	-
4.33.2 Paperboard, n. e. s.	-	-	-	-	-	-

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

62 Country: PHILIPPINES

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	221	-	266	45	281	60	287	66	315	457
1.1 Mechanical	54	-	54	-	54	-	54	-	54	54
1.11 of which non-coniferous	54	-	54	-	54	-	54	-	54	54
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	35	-	35	-	35	-	35	-	35	35
1.21 of which non-coniferous	35	-	35	-	35	-	35	-	35	35
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	132	-	177	45	192	60	198	66	226	368
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	71	-	116	45	131	60	137	66	137	162
1.43.1 of which non-coniferous	71	-	71	-	71	-	71	-	71	96
1.43.2 coniferous	-	-	45	45	60	60	66	66	66	66
1.44 Bl. sulphate+soda x	61	-	61	-	61	-	61	-	89	206
1.44.1 of which non-coniferous	61	-	61	-	61	-	61	-	89	206
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-
2. Other fibre pulp*, total	46	18	46	18	46	18	69	18	69	69
2.1 Straw	-	-	-	-	-	-	23	-	23	23
2.2 Bagasse	28	-	28	-	28	-	28	-	28	28
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	18	18	18	18	18	18	18	18	18	18
3. Dissolving pulp $\phi$	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

 $\phi$  of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

62 Country: PHILIPPINES

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	441	441	465	491	527	654
4.1 Newsprint	100	100	100	100	100	100
4.2 Other printing + writing, total	85	85	85	111	147	274
4.21 Coated	5	5	5	5	5	60
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	5	5	5	5	5	60
4.22 Uncoated	80	80	80	106	142	214
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	80	80	80	106	142	214
4.3 Other paper + paperboard, total	256	256	280	280	280	280
4.31 Household + sanitary	21	21	21	21	21	21
4.32 Wrapping + packaging, total	235	235	259	259	259	259
4.32.1 Linerboard	68	68	68	68	68	68
4.32.11 Kraft liner	68	68	68	68	68	68
4.32.11.1 Unbleached	68	68	68	68	68	68
4.32.11.4 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium	55	55	55	55	55	55
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	55	55	55	55	55	55
4.32.3 Kraft wrapping + packaging	30	30	30	30	30	30
4.32.31 Sack kraft	30	30	30	30	30	30
4.32.32 Other kraft wrapping + packaging	-	-	-	-	-	-
4.32.4 Folding boxboard	44	44	68	68	68	68
4.32.41 Pulp based	-	-	12	12	12	12
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	-	-	-	-	-	-
4.32.42 Waste paper based	44	44	56	56	56	56
4.32.5 Other wrapping + packaging n.e.s.	38	38	38	38	38	38
4.32.51 Wrapping paper	38	38	38	38	38	38
4.32.52 Packaging paperboard	-	-	-	-	-	-
4.33 Other paper + board, n.e.s. total	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

63 Country: SINGAPORE

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	-	-	-	-	-	-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-	-	-	-	-
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	-	-	-	-	-	-	-	-	-	-
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	-	-	-	-
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-
2. Other fibre pulp*, total	-	-	-	-	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-
3. Dissolving pulp $\phi$	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

 $\phi$  of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

63 Country: SINGAPORE

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	47	47	47	47	47	47
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing + writing, total	-	-	-	-	-	-
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	-	-	-	-	-	-
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	-	-	-	-	-	-
4.3 Other paper + paperboard, total	47	47	47	47	47	47
4.31 Household + sanitary	5	5	5	5	5	5
4.32 Wrapping + packaging, total	42	42	42	42	42	42
4.32.1 Linerboard	3	3	3	3	3	3
4.32.11 Kraft liner	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	3	3	3	3	3	3
4.32.2 Fluting medium	21	21	21	21	21	21
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	21	21	21	21	21	21
4.32.3 Kraft wrapping + packaging	-	-	-	-	-	-
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping + packaging	-	-	-	-	-	-
4.32.4 Folding boxboard	18	18	18	18	18	18
4.32.41 Pulp based	-	-	-	-	-	-
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	-	-	-	-	-	-
4.32.42 Waste paper based	18	18	18	18	18	18
4.32.5 Other wrapping + packaging n. e. s.	-	-	-	-	-	-
4.32.51 Wrapping paper	-	-	-	-	-	-
4.32.52 Packaging paperboard	-	-	-	-	-	-
4.33 Other paper + board, n. e. s. total	-	-	-	-	-	-
4.33.1 Paper, n. e. s.	-	-	-	-	-	-
4.33.2 Paperboard, n. e. s.	-	-	-	-	-	-

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

64 Country: SRI LANKA

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	2	-	2	-	2	-	2	-	2	2
1.1 Mechanical	-	-	-	-	-	-	-	-	-	-
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	2	-	2	-	2	-	2	-	2	2
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	..	-	..	-	..	-	..	-	..	..
1.42.1 of which non-coniferous	..	-	..	-	..	-	..	-	..	..
1.42.2 coniferous	..	-	..	-	..	-	..	-	..	..
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	..	-	..	-	..	-	..	-	..	..
1.44.1 of which non-coniferous	..	-	..	-	..	-	..	-	..	..
1.44.2 coniferous	..	-	..	-	..	-	..	-	..	..
2. Other fibre pulp*, total	22	-	24	-	26	-	27	-	27	27
2.1 Straw	21	-	23	-	25	-	26	-	26	26
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	1	-	1	-	1	-	1	-	1	1
3. Dissolving pulp $\phi$	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

 $\phi$  of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

64 Country: SRI LANKA

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	40	43	45	48	48	48
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing + writing, total	28	31	33	36	36	36
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	28	31	33	36	36	36
4.22.1 Wood containing	..	..	..	..	..	..
4.22.2 Wood free	..	..	..	..	..	..
4.3 Other paper + paperboard, total	12	12	12	12	12	12
4.31 Household + sanitary	-	-	-	-	-	-
4.32 Wrapping + packaging, total	12	12	12	12	12	12
4.32.1 Linerboard	1	1	1	1	1	1
4.32.11 Kraft liner	1	1	1	1	1	1
4.32.11.1 Unbleached	..	..	..	..	..	..
4.32.11.2 Bleached	..	..	..	..	..	..
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium	2	2	2	2	2	2
4.32.21 Semi-chemical	2	2	2	2	2	2
4.32.22 Other fluting medium	-	-	-	-	-	-
4.32.3 Kraft wrapping + packaging	2	2	2	2	2	2
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping + packaging	2	2	2	2	2	2
4.32.4 Folding boxboard	6	6	6	6	6	6
4.32.41 Pulp based	..	..	..	..	..	..
4.32.41.1 Bleached chemical	..	..	..	..	..	..
4.32.41.2 Other pulp based	..	..	..	..	..	..
4.32.42 Waste paper based	..	..	..	..	..	..
4.32.5 Other wrapping + packaging n.e.s.	1	1	1	1	1	1
4.32.51 Wrapping paper	1	1	1	1	1	1
4.32.52 Packaging paperboard	-	-	-	-	-	-
4.33 Other paper + board, n.e.s. total	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

65 Country: SYRIA

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	-	-	-	-	-	-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-	-	-	-	-
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	-	-	-	-	-	-	-	-	-	-
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	-	-	-	-
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-
2. Other fibre pulp*, total	18	-	21	-	24	-	27	-	32	32
2.1 Straw	18	-	21	-	24	-	27	-	32	32
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-
3. Dissolving pulp $\phi$	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

 $\phi$  of wood + other raw materials.

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

65 Country: SYRIA

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	35	41	47	56	60	60
4.1 Newsprint	7	8	9	11	12	12
4.2 Other printing + writing, total	7	8	9	11	12	12
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	7	8	9	11	12	12
4.22.1 Wood containing	..	..	..	..	..	..
4.22.2 Wood free	..	..	..	..	..	..
4.3 Other paper + paperboard, total	21	25	29	34	36	36
4.31 Household + sanitary	-	-	-	-	-	-
4.32 Wrapping + packaging, total	21	25	29	34	36	36
4.32.1 Linerboard	5	6	7	8	8	8
4.32.11 Kraft liner	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	5	6	7	8	8	8
4.32.2 Fluting medium	3	3	4	5	5	5
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	3	3	4	5	5	5
4.32.3 Kraft wrapping + packaging	-	-	-	-	-	-
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping + packaging	-	-	-	-	-	-
4.32.4 Folding boxboard	-	-	-	-	-	-
4.32.41 Pulp based	-	-	-	-	-	-
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	-	-	-	-	-	-
4.32.42 Waste paper based	-	-	-	-	-	-
4.32.5 Other wrapping + packaging n.e.s.	13	16	18	21	23	23
4.32.51 Wrapping paper	-	-	-	-	-	-
4.32.52 Packaging paperboard	13	16	18	21	23	23
4.33 Other paper + board, n.e.s. total	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

66 Country: THAILAND

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	-	-	-	-	-	-	-	-	40	55
1.1 Mechanical	-	-	-	-	-	-	-	-	40	55
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	-	-	-	-	-	-	-	-	40	55
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	-	-	-	-	-	-	-	-	-	-
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	-	-	-	-
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-
2. Other fibre pulp*, total	36	-	37	-	37	-	87	-	102	162
2.1 Straw	9	-	9	-	9	-	9	-	9	9
2.2 Bagasse	24	-	25	-	25	-	25	-	25	25
2.3 Bamboo	3	-	3	-	3	-	3	-	3	58
2.4 Other	-	-	-	-	-	-	50	-	65	70
3. Dissolving pulp †	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

† of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

66 Country: THAILAND

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	403	459	487	560	657	685
4.1 Newsprint	-	-	-	-	40	55
4.2 Other printing + writing, total	70	97	97	97	110	110
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	70	97	97	97	110	110
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	70	97	97	97	110	110
4.3 Other paper + paperboard, total	333	362	390	463	507	520
4.31 Household + sanitary	28	34	34	34	34	34
4.32 Wrapping + packaging, total	303	326	354	418	462	475
4.32.1 Linerboard	59	63	70	86	94	94
4.32.11 Kraft liner	..	..	..	..	..	..
4.32.11.1 Unbleached	..	..	..	..	..	..
4.32.11.2 Bleached	..	..	..	..	..	..
4.32.12 Other linerboard	..	..	..	..	..	..
4.32.2 Fluting medium	82	87	97	120	131	131
4.32.21 Semi-chemical	..	..	..	..	..	..
4.32.22 Other fluting medium	..	..	..	..	..	..
4.32.3 Kraft wrapping + packaging	73	78	86	106	117	117
4.32.31 Sack kraft	33	35	39	48	53	53
4.32.32 Other kraft wrapping + packaging	40	43	47	58	64	64
4.32.4 Folding boxboard	73	78	78	80	90	100
4.32.41 Pulp based	..	..	..	..	..	..
4.32.41.1 Bleached chemical	..	..	..	..	..	..
4.32.41.2 Other pulp based	..	..	..	..	..	..
4.32.42 Waste paper based	..	..	..	..	..	..
4.32.5 Other wrapping + packaging n.e.s.	16	20	23	26	30	33
4.32.51 Wrapping paper	..	..	..	..	..	..
4.32.52 Packaging paperboard	..	..	..	..	..	..
4.33 Other paper + board, n.e.s. total	2	2	2	11	11	11
4.33.1 Paper, n.e.s.	2	2	2	11	11	11
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

67 Country: TURKEY

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	314	-	344	-	391	-	459	-	499	499
1.1 Mechanical	116	-	116	-	116	-	116	-	116	116
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	116	-	116	-	116	-	116	-	116	116
1.2 Thermo-mechanical	-	-	30	-	77	-	85	-	85	85
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	30	-	77	-	85	-	85	85
1.3 Semi-chemical	28	-	28	-	28	-	28	-	28	28
1.31 of which non-coniferous	28	-	28	-	28	-	28	-	28	28
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	170	-	170	-	170	-	230	-	270	270
1.41 Unbleached sulphite	20	-	20	-	20	-	20	-	20	20
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	20	-	20	-	20	-	20	-	20	20
1.42 Bleached sulphite x	20	-	20	-	20	-	20	-	20	20
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	20	-	20	-	20	-	20	-	20	20
1.43 Unbl. sulphate+soda	60	-	60	-	60	-	120	-	160	160
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	60	-	60	-	60	-	120	-	160	160
1.44 Bl. sulphate+soda x	70	-	70	-	70	-	70	-	70	70
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	70	-	70	-	70	-	70	-	70	70

2. Other fibre pulp*, total	43	-	87	-	102	-	103	-	103	103
2.1 Straw	41	-	70	-	76	-	77	-	77	77
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	2	-	17	-	26	-	26	-	26	26

3. Dissolving pulp $\phi$	15	-	15	-	15	-	15	-	15	15
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

 $\phi$  of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

67 Country: TURKEY

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	540	560	642	768	858	868
4.1 Newsprint	83	93	133	153	173	183
4.2 Other printing + writing, total	94	104	104	104	104	104
4.21 Coated	-	-	10	15	20	20
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	10	15	20	20
4.22 Uncoated	94	104	94	89	84	84
4.22.1 Wood containing	46	56	56	56	56	56
4.22.2 Wood free	48	48	38	33	28	28
4.3 Other paper + paperboard, total	363	363	405	511	581	581
4.31 Household + sanitary	10	10	10	15	20	20
4.32 Wrapping + packaging, total	351	351	391	491	556	556
4.32.1 Linerboard	6	6	6	56	86	86
4.32.11 Kraft liner	-	-	-	50	80	80
4.32.11.1 Unbleached	-	-	-	50	80	80
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	6	6	6	6	6	6
4.32.2 Fluting medium	70	70	98	111	121	121
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	70	70	98	111	121	121
4.32.3 Kraft wrapping + packaging	88	88	88	98	113	113
4.32.31 Sack kraft	75	75	75	75	75	75
4.32.32 Other kraft wrapping + packaging	13	13	13	23	38	38
4.32.4 Folding boxboard	73	73	73	100	110	110
4.32.41 Pulp based	-	-	-	-	-	-
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	-	-	-	-	-	-
4.32.42 Waste paper based	73	73	73	100	110	110
4.32.5 Other wrapping + packaging n.e.s.	114	114	126	126	126	126
4.32.51 Wrapping paper	21	21	21	21	21	21
4.32.52 Packaging paperboard	93	93	105	105	105	105
4.33 Other paper + board, n.e.s. total	2	2	4	5	5	5
4.33.1 Paper, n.e.s.	2	2	4	5	5	5
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

68 Country: VIET NAM, SOC. REP. (a)

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	10	-	10	-	10	-	46	-	53	58
1.1 Mechanical	10	-	10	-	10	-	31	-	35	38
1.11 of which non-coniferous	..	-	..	-	..	-	..	-	..	..
1.12 coniferous	..	-	..	-	..	-	..	-	..	..
1.2 Thermo-mechanical	..	-	..	-	..	-	..	-	..	..
1.21 of which non-coniferous	..	-	..	-	..	-	..	-	..	..
1.22 coniferous	..	-	..	-	..	-	..	-	..	..
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	-	-	-	-	-	-	15	-	18	20
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	15	-	18	20
1.44.1 of which non-coniferous	-	-	-	-	-	-	15	-	18	20
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-
2. Other fibre pulp*, total	10	-	10	-	10	-	25	-	28	30
2.1 Straw	10	-	10	-	10	-	10	-	10	10
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	15	-	18	20
2.4 Other	-	-	-	-	-	-	-	-	-	-
3. Dissolving pulp <sup>β</sup>	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

β of wood + other raw materials.

(a) Secretariat estimates

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

68 Country: VIET NAM, SOC. REP.

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	62	62	62	119	129	138
4.1 Newsprint	-	-	-	39	46	52
4.2 Other printing + writing, total	37	37	37	52	55	57
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	37	37	37	52	55	57
4.22.1 Wood containing	10	10	10	10	10	10
4.22.2 Wood free	27	27	27	42	45	47
4.3 Other paper + paperboard, total	25	25	25	28	28	29
4.31 Household + sanitary	-	-	-	-	-	-
4.32 Wrapping + packaging, total	25	25	25	28	28	29
4.32.1 Linerboard	-	-	-	-	-	-
4.32.11 Kraft liner	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium	-	-	-	-	-	-
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	-	-	-	-	-	-
4.32.3 Kraft wrapping + packaging	-	-	-	-	-	-
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping + packaging	-	-	-	-	-	-
4.32.4 Folding boxboard	-	-	-	-	-	-
4.32.41 Pulp based	-	-	-	-	-	-
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	-	-	-	-	-	-
4.32.42 Waste paper based	-	-	-	-	-	-
4.32.5 Other wrapping + packaging n. e. s.	25	25	25	28	28	29
4.32.51 Wrapping paper	25	25	25	28	28	29
4.32.52 Packaging paperboard	-	-	-	-	-	-
4.33 Other paper + board, n. e. s. total	-	-	-	-	-	-
4.33.1 Paper, n. e. s.	-	-	-	-	-	-
4.33.2 Paperboard, n. e. s.	-	-	-	-	-	-

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

69 Country: ALBANIA (a)

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	10	-	10	-	10	-	10	-	10	10
1.1 Mechanical	-	-	-	-	-	-	-	-	-	-
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	10	-	10	-	10	-	10	-	10	10
1.41 Unbleached sulphite	..	-	..	-	..	-	..	-	..	..
1.41.1 of which non-coniferous	..	-	..	-	..	-	..	-	..	..
1.41.2 coniferous	..	-	..	-	..	-	..	-	..	..
1.42 Bleached sulphite x	..	-	..	-	..	-	..	-	..	..
1.42.1 of which non-coniferous	..	-	..	-	..	-	..	-	..	..
1.42.2 coniferous	..	-	..	-	..	-	..	-	..	..
1.43 Unbl. sulphate+soda	..	-	..	-	..	-	..	-	..	..
1.43.1 of which non-coniferous	..	-	..	-	..	-	..	-	..	..
1.43.2 coniferous	..	-	..	-	..	-	..	-	..	..
1.44 Bl. sulphate+soda x	..	-	..	-	..	-	..	-	..	..
1.44.1 of which non-coniferous	..	-	..	-	..	-	..	-	..	..
1.44.2 coniferous	..	-	..	-	..	-	..	-	..	..
2. Other fibre pulp*, total	5	-	5	-	5	-	5	-	5	5
2.1 Straw	5	-	5	-	5	-	5	-	5	5
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-
3. Dissolving pulp <sup>φ</sup>	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

φ of wood + other raw materials.

(a) Secretariat estimates

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

69

Country: ALBANIA (a)

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	15	15	15	15	15	15
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing + writing, total	7	7	7	7	7	7
4.21 Coated	..	..	..	..	..	..
4.21.1 Wood containing	..	..	..	..	..	..
4.21.2 Wood free	..	..	..	..	..	..
4.22 Uncoated	..	..	..	..	..	..
4.22.1 Wood containing	..	..	..	..	..	..
4.22.2 Wood free	..	..	..	..	..	..
4.3 Other paper + paperboard, total	8	8	8	8	8	8
4.31 Household + sanitary	-	-	-	-	-	-
4.32 Wrapping + packaging, total	8	8	8	8	8	8
4.32.1 Linerboard	-	-	-	-	-	-
4.32.11 Kraft liner	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.4 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium	-	-	-	-	-	-
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	-	-	-	-	-	-
4.32.3 Kraft wrapping + packaging	-	-	-	-	-	-
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping + packaging	-	-	-	-	-	-
4.32.4 Folding boxboard	-	-	-	-	-	-
4.32.41 Pulp based	-	-	-	-	-	-
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	-	-	-	-	-	-
4.32.42 Waste paper based	-	-	-	-	-	-
4.32.5 Other wrapping + packaging n.e.s.	8	8	8	8	8	8
4.32.51 Wrapping paper	-	-	-	-	-	-
4.32.52 Packaging paperboard	8	8	8	8	8	8
4.33 Other paper + board, n.e.s. total	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

(a) Secretariat estimates

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

70 Country: AUSTRIA

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	1,225	301	1,225	301	1,225	301	1,225	301	1,225	1,225
1.1 Mechanical	230	1	230	1	230	1	230	1	230	230
1.11 of which non-coniferous	..	..	..	..	..	..	..	..	..	..
1.12 coniferous	..	..	..	..	..	..	..	..	..	..
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	60	-	60	-	60	-	60	-	60	60
1.31 of which non-coniferous	60	-	60	-	60	-	60	-	60	60
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	935	300	935	300	935	300	935	300	935	935
1.41 Unbleached sulphite	46	9	46	9	46	9	46	9	46	46
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	46	9	46	9	46	9	46	9	46	46
1.42 Bleached sulphite x	596	230	596	230	596	230	596	230	596	596
1.42.1 of which non-coniferous	127	8	127	8	127	8	127	8	127	127
1.42.2 coniferous	469	222	469	222	469	222	469	222	469	469
1.43 Unbl. sulphate+soda	285	60	285	60	285	60	285	60	285	285
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	285	60	285	60	285	60	285	60	285	285
1.44 Bl. sulphate+soda x	8	1	8	1	8	1	8	1	8	8
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	8	1	8	1	8	1	8	1	8	8
2. Other fibre pulp*, total	-	-	-	-	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-
3. Dissolving pulp ø	141	7	141	7	141	7	141	7	141	141
3.1 of which non-coniferous	141	7	141	7	141	7	141	7	141	141
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

ø of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

70 Country: AUSTRIA

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	1,740	1,762	1,762	1,762	1,762	1,762
4.1 Newsprint	193	193	193	193	193	193
4.2 Other printing + writing, total	709	721	721	721	721	721
4.21 Coated	241	245	245	245	245	245
4.21.1 Wood containing	35	35	35	35	35	35
4.21.2 Wood free	206	210	210	210	210	210
4.22 Uncoated	468	476	476	476	476	476
4.22.1 Wood containing	187	188	188	188	188	188
4.22.2 Wood free	281	288	288	288	288	288
4.3 Other paper + paperboard, total	838	848	848	848	848	848
4.31 Household + sanitary	84	84	84	84	84	84
4.32 Wrapping + packaging, total	682	692	692	692	692	692
4.32.1 Linerboard	93	93	93	93	93	93
4.32.11 Kraft liner	93	93	93	93	93	93
4.32.11.1 Unbleached	93	93	93	93	93	93
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium	153	153	153	153	153	153
4.32.21 Semi-chemical	..	..	..	..	..	..
4.32.22 Other fluting medium	..	..	..	..	..	..
4.32.3 Kraft wrapping + packaging	159	159	159	159	159	159
4.32.31 Sack kraft	112	112	112	112	112	112
4.32.32 Other kraft wrapping + packaging	47	47	47	47	47	47
4.32.4 Folding boxboard	240	250	250	250	250	250
4.32.41 Pulp based	..	..	..	..	..	..
4.32.41.1 Bleached chemical	..	..	..	..	..	..
4.32.41.2 Other pulp based	..	..	..	..	..	..
4.32.42 Waste paper based	..	..	..	..	..	..
4.32.5 Other wrapping + packaging n.e.s.	37	37	37	37	37	37
4.32.51 Wrapping paper	31	31	31	31	31	31
4.32.52 Packaging paperboard	6	6	6	6	6	6
4.33 Other paper + board, n.e.s. total	72	72	72	72	72	72
4.33.1 Paper, n.e.s.	37	37	37	37	37	37
4.33.2 Paperboard, n.e.s.	35	35	35	35	35	35

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

71 Country: BELGIUM/LUXEMBOURG

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	391	207	391	207	392	207	425	240	425	425
1.1 Mechanical	157	-	157	-	157	-	157	-	157	157
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	157	-	157	-	157	-	157	-	157	157
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	234	207	234	207	235	207	268	240	268	268
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	27	-	27	-	28	-	28	-	28	28
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	27	-	27	-	28	-	28	-	28	28
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	207	207	207	207	207	207	240	240	240	240
1.44.1 of which non-coniferous	207	207	207	207	207	207	240	240	240	240
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-
2. Other fibre pulp*, total	-	-	-	-	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-
3. Dissolving pulp φ	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

φ of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

71 Country: BELGIUM/LUXEMBOURG

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	864	924	963	981	1,005	1,007
4.1 Newsprint	115	115	115	115	115	115
4.2 Other printing + writing, total	420	458	463	469	471	473
4.21 Coated	190	196	206	210	212	214
4.21.1 Wood containing	113	114	116	118	120	122
4.21.2 Wood free	77	82	90	92	92	92
4.22 Uncoated	230	262	257	259	259	259
4.22.1 Wood containing	138	147	147	147	147	147
4.22.2 Wood free	92	115	110	112	112	112
4.3 Other paper + paperboard, total	329	351	385	397	419	419
4.31 Household + sanitary	87	96	101	103	103	103
4.32 Wrapping + packaging, total	197	213	241	251	271	271
4.32.1 Linerboard	85	101	119	124	139	139
4.32.11 Kraft liner	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.4 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	85	101	119	124	139	139
4.32.2 Fluting medium	36	36	44	44	47	47
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	36	36	44	44	47	47
4.32.3 Kraft wrapping + packaging	11	11	12	12	12	12
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping + packaging	11	11	12	12	12	12
4.32.4 Folding boxboard	25	24	24	24	24	24
4.32.41 Pulp based	-	-	-	-	-	-
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	-	-	-	-	-	-
4.32.42 Waste paper based	25	24	24	24	24	24
4.32.5 Other wrapping + packaging n.e.s.	40	41	42	47	49	49
4.32.51 Wrapping paper	15	16	17	17	19	19
4.32.52 Packaging paperboard	25	25	25	30	30	30
4.33 Other paper + board, n.e.s. total	45	42	43	43	45	45
4.33.1 Paper, n.e.s.	31	28	29	29	31	31
4.33.2 Paperboard, n.e.s.	14	14	14	14	14	14

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

72 Country: BULGARIA

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	267	107	267	107	275	107	275	107	275	275
1.1 Mechanical	17	7	17	7	25	7	25	7	25	25
1.11 of which non-coniferous	..	..	..	..	..	..	..	..	..	..
1.12 coniferous	..	..	..	..	..	..	..	..	..	..
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	90	50	90	50	90	50	90	50	90	90
1.31 of which non-coniferous	90	50	90	50	90	50	90	50	90	90
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	160	50	160	50	160	50	160	50	160	160
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	160	50	160	50	160	50	160	50	160	160
1.43.1 of which non-coniferous	..	..	..	..	..	..	..	..	..	..
1.43.2 coniferous	..	..	..	..	..	..	..	..	..	..
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	-	-	-	-
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-

2. Other fibre pulp*, total	28	16	28	16	28	16	28	16	28	28
2.1 Straw	28	16	28	16	28	16	28	16	28	28
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-

3. Dissolving pulp $\phi$	40	-	40	-	40	-	40	-	40	40
3.1 of which non-coniferous	40	-	40	-	40	-	40	-	40	40
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

$\phi$  of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

72 Country: BULGARIA

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	449	504	545	600	600	600
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing + writing, total	78	78	108	108	108	108
4.21 Coated	6	6	36	36	36	36
4.21.1 Wood containing	-	-	30	30	30	30
4.21.2 Wood free	6	6	6	6	6	6
4.22 Uncoated	72	72	72	72	72	72
4.22.1 Wood containing	12	12	12	12	12	12
4.22.2 Wood free	60	60	60	60	60	60
4.3 Other paper + paperboard, total	371	426	437	492	492	492
4.31 Household + sanitary	7	7	7	28	28	28
4.32 Wrapping + packaging, total	327	384	384	418	418	418
4.32.1 Linerboard	95	95	95	95	95	95
4.32.11 Kraft liner	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.4 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	95	95	95	95	95	95
4.32.2 Fluting medium	73	133	133	148	148	148
4.32.21 Semi-chemical	60	60	60	75	75	75
4.32.22 Other fluting medium	13	73	73	73	73	73
4.32.3 Kraft wrapping + packaging	56	56	56	56	56	56
4.32.31 Sack kraft	40	40	40	40	40	40
4.32.32 Other kraft wrapping + packaging	16	16	16	16	16	16
4.32.4 Folding boxboard	52	52	52	52	52	52
4.32.41 Pulp based	27	27	27	27	27	27
4.32.41.1 Bleached chemical	2	2	2	2	2	2
4.32.41.2 Other pulp based	25	25	25	25	25	25
4.32.42 Waste paper based	25	25	25	25	25	25
4.32.5 Other wrapping + packaging n.e.s.	51	48	48	67	67	67
4.32.51 Wrapping paper	51	48	48	67	67	67
4.32.52 Packaging paperboard	-	-	-	-	-	-
4.33 Other paper + board, n.e.s. total	37	35	46	46	46	46
4.33.1 Paper, n.e.s.	-	4	4	4	4	4
4.33.2 Paperboard, n.e.s.	37	31	42	42	42	42

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

73 Country: CZECHOSLOVAKIA

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	878	216	929	266	929	266	1,055	367	1,215	1,226
1.1 Mechanical	179	2	179	2	179	2	179	2	176	174
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	179	2	179	2	179	2	179	2	176	174
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	13
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	..
1.22 coniferous	-	-	-	-	-	-	-	-	-	..
1.3 Semi-chemical	127	-	127	-	127	-	127	-	127	127
1.31 of which non-coniferous	127	-	127	-	127	-	127	-	127	127
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	572	214	623	264	623	264	749	365	912	912
1.41 Unbleached sulphite	159	54	159	54	159	54	155	50	195	195
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	159	54	159	54	159	54	155	50	195	195
1.42 Bleached sulphite x	120	56	160	96	160	96	100	81	223	223
1.42.1 of which non-coniferous	-	-	32	32	32	32	32	25	32	32
1.42.2 coniferous	120	56	128	64	128	64	68	56	191	191
1.43 Unbl. sulphate+soda	190	-	190	-	190	-	180	-	180	180
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	190	-	190	-	190	-	180	-	180	180
1.44 Bl. sulphate+soda x	104	104	114	114	114	114	314	234	314	314
1.44.1 of which non-coniferous	4	4	14	14	14	14	109	74	109	109
1.44.2 coniferous	100	100	100	100	100	100	205	160	205	205

2. Other fibre pulp*, total	25	1	25	1	25	1	25	1	25	25
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	25	1	25	1	25	1	25	1	25	25

3. Dissolving pulp †	71	68	90	86	85	82	78	75	78	65
3.1 of which non-coniferous	29	27	65	63	65	63	65	63	65	65
3.2 coniferous	42	41	25	23	20	19	13	12	13	-

\* for making paper + paperboard

x including semi-bleached

† of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

73 Country: CZECHOSLOVAKIA

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	1,294	1,294	1,289	1,312	1,317	1,357
4.1 Newsprint	80	80	80	80	80	80
4.2 Other printing + writing, total	244	244	244	244	249	256
4.21 Coated	28	28	28	28	33	40
4.21.1 Wood containing	14	14	14	14	14	14
4.21.2 Wood free	14	14	14	14	19	26
4.22 Uncoated	216	216	216	216	216	216
4.22.1 Wood containing	93	93	93	93	93	93
4.22.2 Wood free	123	123	123	123	123	123
4.3 Other paper + paperboard, total	970	970	965	988	988	1,021
4.31 Household + sanitary	41	41	41	64	64	64
4.32 Wrapping + packaging, total	800	800	800	800	800	833
4.32.1 Linerboard	60	60	60	60	60	83
4.32.11 Kraft liner	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	60	60	60	60	60	83
4.32.2 Fluting medium	162	162	162	162	162	162
4.32.21 Semi-chemical	150	150	150	150	150	150
4.32.22 Other fluting medium	12	12	12	12	12	12
4.32.3 Kraft wrapping + packaging	165	165	165	165	165	165
4.32.31 Sack kraft	146	146	146	146	146	146
4.32.32 Other kraft wrapping + packaging	19	19	19	19	19	19
4.32.4 Folding boxboard	26	26	26	26	26	30
4.32.41 Pulp based	-	-	-	-	-	-
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	-	-	-	-	-	-
4.32.42 Waste paper based	26	26	26	26	26	30
4.32.5 Other wrapping + packaging n. e. s.	387	387	387	387	387	393
4.32.51 Wrapping paper:	119	119	119	119	119	125
4.32.52 Packaging paperboard	268	268	268	268	268	268
4.33 Other paper + board, n. e. s. total	129	129	124	124	124	124
4.33.1 Paper, n. e. s.	63	63	63	63	63	63
4.33.2 Paperboard, n. e. s.	66	66	61	61	61	61

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

74 Country: DENMARK

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	82	75	79	75	75	75	75	75	75	75
1.1 Mechanical	7	-	4	-	-	-	-	-	-	-
1.11 of which non-coniferous	..	-	..	-	-	-	-	-	-	-
1.12 coniferous	..	-	..	-	-	-	-	-	-	-
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	75	75	75	75	75	75	75	75	75	75
1.31 of which non-coniferous	75	75	75	75	75	75	75	75	75	75
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	-	-	-	-	-	-	-	-	-	-
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	-	-	-	-
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-
2. Other fibre pulp*, total	75	45	75	45	75	45	75	45	75	75
2.1 Straw	75	45	75	45	75	45	75	45	75	75
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-
3. Dissolving pulp $\phi$	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

 $\phi$  of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

74 Country: DENMARK

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	284	284	284	284	284	284
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing + writing, total	146	146	146	146	146	146
4.21 Coated	28	28	28	28	28	28
4.21.1 Wood containing	..	..	..	..	..	..
4.21.2 Wood free	..	..	..	..	..	..
4.22 Uncoated	118	118	118	118	118	118
4.22.1 Wood containing	..	..	..	..	..	..
4.22.2 Wood free	..	..	..	..	..	..
4.3 Other paper + paperboard, total	138	138	138	138	138	138
4.31 Household + sanitary	15	15	15	15	15	15
4.32 Wrapping + packaging, total	119	119	119	119	119	119
4.32.1 Linerboard	27	27	27	27	27	27
4.32.11 Kraft liner	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	27	27	27	27	27	27
4.32.2 Fluting medium	58	58	58	58	58	58
4.32.21 Semi-chemical	28	28	28	28	28	28
4.32.22 Other fluting medium	30	30	30	30	30	30
4.32.3 Kraft wrapping + packaging	16	16	16	16	16	16
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping + packaging	16	16	16	16	16	16
4.32.4 Folding boxboard	-	-	-	-	-	-
4.32.41 Pulp based	-	-	-	-	-	-
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	-	-	-	-	-	-
4.32.42 Waste paper based	-	-	-	-	-	-
4.32.5 Other wrapping + packaging n.e.s.	18	18	18	18	18	18
4.32.51 Wrapping paper	10	10	10	10	10	10
4.32.52 Packaging paperboard	8	8	8	8	8	8
4.33 Other paper + board, n.e.s. total	4	4	4	4	4	4
4.33.1 Paper, n.e.s.	4	4	4	4	4	4
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

75 Country: FINLAND

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	7,730	2,170	7,925	2,180	8,115	2,185	8,330	2,165	8,545	8,600
1.1 Mechanical	2,440	50	2,530	50	2,550	50	2,680	50	2,750	2,780
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	2,440	50	2,530	50	2,550	50	2,680	50	2,750	2,780
1.2 Thermo-mechanical	380	-	420	-	530	-	600	-	635	640
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	380	-	420	-	530	-	600	-	635	640
1.3 Semi-chemical	350	-	350	-	360	-	360	-	360	360
1.31 of which non-coniferous	350	-	350	-	360	-	360	-	360	360
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	4,560	2,120	4,625	2,130	4,675	2,135	4,690	2,115	4,800	4,820
1.41 Unbleached sulphite	270	100	255	125	270	145	260	135	250	250
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	270	100	255	125	270	145	260	135	250	250
1.42 Bleached sulphite x	300	150	330	160	310	150	200	85	170	170
1.42.1 of which non-coniferous	45	30	40	20	40	20	35	10	30	30
1.42.2 coniferous	255	120	290	140	270	130	165	75	140	140
1.43 Unbl. sulphate+soda	1,250	260	1,130	235	1,055	210	1,100	225	1,120	1,120
1.43.1 of which non-coniferous	35	30	25	20	30	25	30	25	30	30
1.43.2 coniferous	1,215	230	1,105	215	1,025	185	1,070	200	1,090	1,090
1.44 Bl. sulphate+soda x	2,740	1,610	2,910	1,610	3,040	1,630	3,130	1,670	3,260	3,280
1.44.1 of which non-coniferous	1,175	810	1,200	775	1,280	850	1,340	880	1,380	1,400
1.44.2 coniferous	1,565	800	1,710	835	1,760	780	1,790	790	1,880	1,880
2. Other fibre pulp*, total	-	-	-	-	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-
3. Dissolving pulp †	310	310	320	320	325	325	325	325	330	335
3.1 of which non-coniferous	60	60	60	60	60	60	60	60	60	60
3.2 coniferous	250	250	260	260	265	265	265	265	270	275

\* for making paper + paperboard

x including semi-bleached

† of wood + other raw materials.

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

75 Country: FINLAND

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	6,290	6,330	6,540	6,950	7,255	7,520
4.1 Newsprint	1,395	1,400	1,465	1,540	1,690	1,800
4.2 Other printing + writing, total	2,300	2,450	2,575	2,875	3,025	3,175
4.21 Coated	565	575	595	680	725	855
4.21.1 Wood containing	500	505	525	600	625	740
4.21.2 Wood free	65	70	70	80	100	115
4.22 Uncoated	1,735	1,875	1,980	2,195	2,300	2,320
4.22.1 Wood containing	1,415	1,470	1,560	1,725	1,780	1,800
4.22.2 Wood free	320	405	420	470	520	520
4.3 Other paper + paperboard, total	2,595	2,480	2,500	2,535	2,540	2,545
4.31 Household + sanitary	150	150	155	160	160	160
4.32 Wrapping + packaging, total	2,035	1,915	1,910	1,925	1,925	1,930
4.32.1 Linerboard	475	365	355	350	340	340
4.32.11 Kraft liner	460	360	350	345	335	335
4.32.11.1 Unbleached	370	285	275	275	275	275
4.32.11.2 Bleached	90	75	75	70	60	60
4.32.12 Other linerboard	15	5	5	5	5	5
4.32.2 Fluting medium	295	295	305	315	315	315
4.32.21 Semi-chemical	295	295	305	315	315	315
4.32.22 Other fluting medium	-	-	-	-	-	-
4.32.3 Kraft wrapping + packaging	455	430	395	395	395	395
4.32.31 Sack kraft	325	300	265	265	265	265
4.32.32 Other kraft wrapping + packaging	130	130	130	130	130	130
4.32.4 Folding boxboard	670	685	715	725	730	735
4.32.41 Pulp based	580	590	615	620	625	630
4.32.41.1 Bleached chemical	290	290	290	295	300	305
4.32.41.2 Other pulp based	290	300	325	325	325	325
4.32.42 Waste paper based	90	95	100	105	105	105
4.32.5 Other wrapping + packaging n.e.s.	140	140	140	140	145	145
4.32.51 Wrapping paper	60	60	60	60	60	60
4.32.52 Packaging paperboard	80	80	80	80	85	85
4.33 Other paper + board, n.e.s. total	410	415	435	450	455	455
4.33.1 Paper, n.e.s.	265	270	290	305	310	310
4.33.2 Paperboard, n.e.s.	145	145	145	145	145	145

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

76 Country: FRANCE

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	2,070	575	2,170	585	2,320	655	2,390	705	2,390	2,390
1.1 Mechanical (a)	545	5	570	-	570	-	570	-	570	570
1.11 of which non-coniferous	15	-	20	-	20	-	20	-	20	20
1.12 coniferous	530	5	550	-	550	-	550	-	550	550
1.2 Thermo-mechanical	..	-	..	-	..	-	..	-	..	..
1.21 of which non-coniferous	..	-	..	-	..	-	..	-	..	..
1.22 coniferous	..	-	..	-	..	-	..	-	..	..
1.3 Semi-chemical	235	-	250	-	260	-	270	-	270	270
1.31 of which non-coniferous	220	-	250	-	260	-	270	-	270	270
1.32 coniferous	15	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	1,290	570	1,350	585	1,490	655	1,550	705	1,550	1,550
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	215	180	230	195	250	215	250	215	250	250
1.42.1 of which non-coniferous	50	15	50	15	50	15	50	15	50	50
1.42.2 coniferous	165	165	180	180	200	200	200	200	200	200
1.43 Unbl. sulphate+soda	475	-	500	-	550	-	550	-	550	550
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	475	-	500	-	550	-	550	-	550	550
1.44 Bl. sulphate+soda x	600	390	620	390	690	440	750	490	750	750
1.44.1 of which non-coniferous	450	290	470	290	490	290	500	290	500	500
1.44.2 coniferous	150	100	150	100	200	150	250	200	250	250
2. Other fibre pulp*, total	-	-	-	-	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-
3. Dissolving pulp $\phi$	120	120	120	120	120	120	120	120	120	120
3.1 of which non-coniferous	70	70	70	70	70	70	70	70	70	70
3.2 coniferous	50	50	50	50	50	50	50	50	50	50

\* for making paper + paperboard

x including semi-bleached

 $\phi$  of wood + other raw materials.

(a) Including Thermo-mechanical pulp

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

76 Country: FRANCE

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	5,550	5,770	5,970	6,080	6,120	6,150
4.1 Newsprint	333	333	361	368	372	400
4.2 Other printing + writing, total	2,030	2,120	2,215	2,265	2,300	2,300
4.21 Coated	710	750	815	875	930	930
4.21.1 Wood containing	375	385	425	475	525	525
4.21.2 Wood free	335	365	390	400	405	405
4.22 Uncoated	1,320	1,370	1,400	1,390	1,370	1,370
4.22.1 Wood containing	305	300	290	280	270	270
4.22.2 Wood free	1,015	1,070	1,110	1,110	1,100	1,100
4.3 Other paper + paperboard, total	3,187	3,317	3,394	3,447	3,448	3,450
4.31 Household + sanitary	180	180	180	230	230	230
4.32 Wrapping + packaging, total	2,770	2,890	2,965	2,965	2,965	2,965
4.32.1 Linerboard	1,005	1,075	1,125	1,125	1,125	1,125
4.32.11 Kraft liner	300	325	355	355	355	355
4.32.11.1 Unbleached	250	275	300	300	300	300
4.32.11.2 Bleached	50	50	55	55	55	55
4.32.12 Other linerboard	705	750	770	770	770	770
4.32.2 Fluting medium	585	605	615	615	615	615
4.32.21 Semi-chemical	285	285	285	285	285	285
4.32.22 Other fluting medium	300	320	330	330	330	330
4.32.3 Kraft wrapping + packaging	360	360	360	360	360	360
4.32.31 Sack kraft	130	130	130	130	130	130
4.32.32 Other kraft wrapping + packaging	230	230	230	230	230	230
4.32.4 Folding boxboard	310	325	335	335	335	335
4.32.41 Pulp based	120	125	130	130	130	130
4.32.41.1 Bleached chemical	25	25	25	25	25	25
4.32.41.2 Other pulp based	95	100	105	105	105	105
4.32.42 Waste paper based	190	200	205	205	205	205
4.32.5 Other wrapping + packaging n.e.s.	510	525	530	530	530	530
4.32.51 Wrapping paper	280	285	285	285	285	285
4.32.52 Packaging paperboard	230	240	245	245	245	245
4.33 Other paper + board, n.e.s. total	237	247	249	252	253	255
4.33.1 Paper, n.e.s.	177	187	189	192	193	195
4.33.2 Paperboard, n.e.s.	60	60	60	60	60	60

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

77 Country: GERMAN DEM. REP. (a)

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	970	-	983	-	995	-	1,008	-	1,020	1,020
1.1 Mechanical	445	-	445	-	445	-	445	-	445	445
1.11 of which non-coniferous	..	-	..	-	..	-	..	-	..	..
1.12 coniferous	..	-	..	-	..	-	..	-	..	..
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	5	-	5	-	5	-	5	-	5	5
1.31 of which non-coniferous	..	-	..	-	..	-	..	-	..	..
1.32 coniferous	..	-	..	-	..	-	..	-	..	..
1.4 Chemical, total	520	-	533	-	545	-	558	-	570	570
1.41 Unbleached sulphite	..	-	..	-	..	-	..	-	..	..
1.41.1 of which non-coniferous	..	-	..	-	..	-	..	-	..	..
1.41.2 coniferous	..	-	..	-	..	-	..	-	..	..
1.42 Bleached sulphite x	..	-	..	-	..	-	..	-	..	..
1.42.1 of which non-coniferous	..	-	..	-	..	-	..	-	..	..
1.42.2 coniferous	..	-	..	-	..	-	..	-	..	..
1.43 Unbl. sulphate+soda	..	-	..	-	..	-	..	-	..	..
1.43.1 of which non-coniferous	..	-	..	-	..	-	..	-	..	..
1.43.2 coniferous	..	-	..	-	..	-	..	-	..	..
1.44 Bl. sulphate+soda x	..	-	..	-	..	-	..	-	..	..
1.44.1 of which non-coniferous	..	-	..	-	..	-	..	-	..	..
1.44.2 coniferous	..	-	..	-	..	-	..	-	..	..
2. Other fibre pulp*, total	57	-	61	-	65	-	69	-	73	77
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	57	-	61	-	65	-	69	-	73	77
3. Dissolving pulp <sup>ø</sup>	212	..	214	..	216	..	218	..	220	220
3.1 of which non-coniferous	..	..	..	..	..	..	..	..	..	..
3.2 coniferous	..	..	..	..	..	..	..	..	..	..

\* for making paper + paperboard

x including semi-bleached

ø of wood + other raw materials.

(a) Secretariat estimates

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

77 Country: GERMAN DEM. REP. (a)

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	1,485	1,515	1,545	1,575	1,600	1,630
4.1 Newsprint	165	165	165	165	165	165
4.2 Other printing + writing, total	295	300	310	320	325	335
4.21 Coated	..	..	..	..	..	..
4.21.1 Wood containing	..	..	..	..	..	..
4.21.2 Wood free	..	..	..	..	..	..
4.22 Uncoated	..	..	..	..	..	..
4.22.1 Wood containing	..	..	..	..	..	..
4.22.2 Wood free	..	..	..	..	..	..
4.3 Other paper + paperboard, total	1,025	1,050	1,070	1,090	1,110	1,130
4.31 Household + sanitary	-	-	-	-	-	-
4.32 Wrapping + packaging, total	1,025	1,050	1,070	1,090	1,110	1,130
4.32.1 Linerboard	..	..	..	..	..	..
4.32.11 Kraft liner	..	..	..	..	..	..
4.32.11.1 Unbleached	..	..	..	..	..	..
4.32.11.2 Bleached	..	..	..	..	..	..
4.32.12 Other linerboard	..	..	..	..	..	..
4.32.2 Fluting medium	..	..	..	..	..	..
4.32.21 Semi-chemical	..	..	..	..	..	..
4.32.22 Other fluting medium	..	..	..	..	..	..
4.32.3 Kraft wrapping + packaging	..	..	..	..	..	..
4.32.31 Sack kraft	..	..	..	..	..	..
4.32.32 Other kraft wrapping + packaging	..	..	..	..	..	..
4.32.4 Folding boxboard	..	..	..	..	..	..
4.32.41 Pulp based	..	..	..	..	..	..
4.32.41.1 Bleached chemical	..	..	..	..	..	..
4.32.41.2 Other pulp based	..	..	..	..	..	..
4.32.42 Waste paper based	..	..	..	..	..	..
4.32.5 Other wrapping + packaging n.e.s.	..	..	..	..	..	..
4.32.51 Wrapping paper	..	..	..	..	..	..
4.32.52 Packaging paperboard	..	..	..	..	..	..
4.33 Other paper + board, n.e.s. total	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

(a) Secretariat estimates

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

78 Country: GERMANY, FED. REP. OF

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	1,991	186	2,122	184	2,124	185	2,124	185	2,124	2,124
1.1 Mechanical	1,292	9	1,420	9	1,416	9	1,416	9	1,416	1,416
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	1,292	9	1,420	9	1,416	9	1,416	9	1,416	1,416
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	69	-	69	-	69	-	69	-	69	69
1.31 of which non-coniferous	69	-	69	-	69	-	69	-	69	69
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	630	177	633	175	639	176	639	176	639	639
1.41 Unbleached sulphite	38	20	38	20	38	20	38	20	38	38
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	38	20	38	20	38	20	38	20	38	38
1.42 Bleached sulphite x	592	157	595	155	601	156	601	156	601	601
1.42.1 of which non-coniferous	127	27	127	28	128	28	128	28	128	128
1.42.2 coniferous	465	130	468	127	473	128	473	128	473	473
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	-	-	-	-
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-
2. Other fibre pulp*, total	-	-	-	-	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-
3. Dissolving pulp $\phi$	192	192	192	192	195	195	195	195	195	195
3.1 of which non-coniferous	138	138	138	138	141	141	141	141	141	141
3.2 coniferous	54	54	54	54	54	54	54	54	54	54

\* for making paper + paperboard

x including semi-bleached

 $\phi$  of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

78 Country: GERMANY FED. REP. OF

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	8,407	8,699	9,027	9,462	9,551	9,830
4.1 Newsprint	600	590	600	743	740	757
4.2 Other printing + writing, total	3,034	3,164	3,348	3,581	3,660	3,765
4.21 Coated	1,069	1,116	1,236	1,339	1,352	1,396
4.21.1 Wood containing	..	..	..	..	..	..
4.21.2 Wood free	..	..	..	..	..	..
4.22 Uncoated	1,965	2,047	2,112	2,242	2,308	2,369
4.22.1 Wood containing	937	969	987	1,049	1,088	1,121
4.22.2 Wood free	1,028	1,078	1,125	1,193	1,220	1,248
4.3 Other paper + paperboard, total	4,773	4,946	5,079	5,138	5,151	5,308
4.31 Household + sanitary	475	505	544	548	550	570
4.32 Wrapping + packaging, total	3,624	3,753	3,842	3,889	3,899	4,011
4.32.1 Linerboard	347	397	413	419	420	433
4.32.11 Kraft liner	1	1	1	1	1	1
4.32.11.1 Unbleached	..	..	..	..	..	..
4.32.11.1 Bleached	..	..	..	..	..	..
4.32.12 Other linerboard	346	396	412	418	419	432
4.32.2 Fluting medium	891	926	956	963	965	993
4.32.21 Semi-chemical	93	93	93	93	93	93
4.32.22 Other fluting medium	798	833	863	870	872	900
4.32.3 Kraft wrapping + packaging	177	180	181	185	185	187
4.32.31 Sack kraft	25	25	25	25	25	25
4.32.32 Other kraft wrapping + packaging	152	155	156	160	160	162
4.32.4 Folding boxboard	660	678	690	705	709	727
4.32.41 Pulp based	36	36	36	38	38	38
4.32.41.1 Bleached chemical	36	36	36	38	38	38
4.32.41.2 Other pulp based	-	-	-	-	-	-
4.32.42 Waste paper based	624	642	654	667	671	689
4.32.5 Other wrapping + packaging n.e.s.	1,549	1,572	1,602	1,617	1,620	1,671
4.32.51 Wrapping paper	806	827	853	855	856	885
4.32.52 Packaging paperboard	743	745	749	762	764	786
4.33 Other paper + board, n.e.s. total	674	688	693	701	702	727
4.33.1 Paper, n.e.s.	467	479	483	491	492	511
4.33.2 Paperboard, n.e.s.	207	209	210	210	210	216

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

79 Country: GREECE

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	90	-	90	-	90	-	90	-	90	90
1.1 Mechanical	-	-	-	-	-	-	-	-	-	-
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	90	-	90	-	90	-	90	-	90	90
1.21 of which non-coniferous	..	-	..	-	..	-	..	-	..	..
1.22 coniferous	..	-	..	-	..	-	..	-	..	..
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	-	-	-	-	-	-	-	-	-	-
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	-	-	-	-
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-
2. Other fibre pulp*, total	32	-	32	-	32	-	32	-	32	32
2.1 Straw	32	-	32	-	32	-	32	-	32	32
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-
3. Dissolving pulp $\phi$	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

 $\phi$  of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

79 Country: GREECE

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	516	516	545	554	558	558
4.1 Newsprint	50	50	50	50	50	50
4.2 Other printing + writing, total	230	230	259	268	272	272
4.21 Coated	..	..	..	..	..	..
4.21.1 Wood containing	..	..	..	..	..	..
4.21.2 Wood free	..	..	..	..	..	..
4.22 Uncoated	..	..	..	..	..	..
4.22.1 Wood containing	..	..	..	..	..	..
4.22.2 Wood free	..	..	..	..	..	..
4.3 Other paper + paperboard, total	236	236	236	236	236	236
4.31 Household + sanitary	106	106	106	106	106	106
4.32 Wrapping + packaging, total	105	105	105	105	105	105
4.32.1 Linerboard	6	6	6	6	6	6
4.32.11 Kraft liner	6	6	6	6	6	6
4.32.11.1 Unbleached	..	..	..	..	..	..
4.32.11.2 Bleached	..	..	..	..	..	..
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium	11	11	11	11	11	11
4.32.21 Semi-chemical	..	..	..	..	..	..
4.32.22 Other fluting medium	..	..	..	..	..	..
4.32.3 Kraft wrapping + packaging	6	6	6	6	6	6
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping + packaging	6	6	6	6	6	6
4.32.4 Folding boxboard	48	48	48	48	48	48
4.32.41 Pulp based	..	..	..	..	..	..
4.32.41.1 Bleached chemical	..	..	..	..	..	..
4.32.41.2 Other pulp based	..	..	..	..	..	..
4.32.42 Waste paper based	..	..	..	..	..	..
4.32.5 Other wrapping + packaging n.e.s.	34	34	34	34	34	34
4.32.51 Wrapping paper	34	34	34	34	34	34
4.32.52 Packaging paperboard	-	-	-	-	-	-
4.33 Other paper + board, n.e.s. total	25	25	25	25	25	25
4.33.1 Paper, n.e.s.	20	20	20	20	20	20
4.33.2 Paperboard, n.e.s.	5	5	5	5	5	5

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

80 Country: HUNGARY

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	105	-	103	-	100	-	100	-	100	100
1.1 Mechanical	22	-	26	-	25	-	25	-	25	25
1.11 of which non-coniferous	7	-	8	-	8	-	8	-	8	8
1.12 coniferous	15	-	18	-	17	-	17	-	17	17
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	63	-	65	-	65	-	65	-	65	65
1.31 of which non-coniferous	63	-	65	-	65	-	65	-	65	65
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	20	-	12	-	10	-	10	-	10	10
1.41 Unbleached sulphite	20	-	12	-	10	-	10	-	10	10
1.41.1 of which non-coniferous	-	-	2	-	10	-	10	-	10	10
1.41.2 coniferous	20	-	10	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	-	-	-	-
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-

2. Other fibre pulp*, total	20	1	22	2	22	2	22	2	22	22
2.1 Straw	20	1	22	2	22	2	22	2	22	22
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-

3. Dissolving pulp †	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

† of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

80 Country: HUNGARY

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	436	454	454	454	454	454
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing + writing, total	119	121	121	121	121	121
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	119	121	121	121	121	121
4.22.1 Wood containing	56	57	57	57	57	57
4.22.2 Wood free	63	64	64	64	64	64
4.3 Other paper + paperboard, total	317	333	333	333	333	333
4.31 Household + sanitary	19	20	20	20	20	20
4.32 Wrapping + packaging, total	270	280	280	280	280	280
4.32.1 Linerboard	16	20	20	20	20	20
4.32.11 Kraft liner	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	16	20	20	20	20	20
4.32.2 Fluting medium	125	130	130	130	130	130
4.32.21 Semi-chemical	55	60	60	60	60	60
4.32.22 Other fluting medium	70	70	70	70	70	70
4.32.3 Kraft wrapping + packaging	40	40	40	40	40	40
4.32.31 Sack kraft	40	40	40	40	40	40
4.32.32 Other kraft wrapping + packaging	-	-	-	-	-	-
4.32.4 Folding boxboard	25	25	25	25	25	25
4.32.41 Pulp based	10	10	10	10	10	10
4.32.41.1 Bleached chemical	5	5	5	5	5	5
4.32.41.2 Other pulp based	5	5	5	5	5	5
4.32.42 Waste paper based	15	15	15	15	15	15
4.32.5 Other wrapping + packaging n.e.s.	64	65	65	65	65	65
4.32.51 Wrapping paper	17	18	18	18	18	18
4.32.52 Packaging paperboard	47	47	47	47	47	47
4.33 Other paper + board, n.e.s. total	28	33	33	33	33	33
4.33.1 Paper, n.e.s.	10	12	12	12	12	12
4.33.2 Paperboard, n.e.s.	18	21	21	21	21	21

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

81 Country: IRELAND

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	22	17	22	17	22	17	22	17	22	22
1.1 Mechanical	-	-	-	-	-	-	-	-	-	-
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	22	17	22	17	22	17	22	17	22	22
1.21 of which non-coniferous	..	..	..	..	..	..	..	..	..	..
1.22 coniferous	..	..	..	..	..	..	..	..	..	..
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	-	-	-	-	-	-	-	-	-	-
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	-	-	-	-
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-
2. Other fibre pulp*, total	-	-	-	-	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-
3. Dissolving pulp <sup>ø</sup>	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

ø of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

81 Country: IRELAND

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	76	76	76	76	76	76
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing + writing, total	18	18	18	18	18	18
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	18	18	18	18	18	18
4.22.1 Wood containing	..	..	..	..	..	..
4.22.2 Wood free	..	..	..	..	..	..
4.3 Other paper + paperboard, total	58	58	58	58	58	58
4.31 Household + sanitary	-	-	-	-	-	-
4.32 Wrapping + packaging, total	56	56	56	56	56	56
4.32.1 Linerboard	3	3	3	3	3	3
4.32.11 Kraft liner	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.1 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	3	3	3	3	3	3
4.32.2 Fluting medium	13	13	13	13	13	13
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	13	13	13	13	13	13
4.32.3 Kraft wrapping + packaging	18	18	18	18	18	18
4.32.31 Sack kraft	4	4	4	4	4	4
4.32.32 Other kraft wrapping + packaging	14	14	14	14	14	14
4.32.4 Folding boxboard	-	-	-	-	-	-
4.32.41 Pulp based	-	-	-	-	-	-
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	-	-	-	-	-	-
4.32.42 Waste paper based	-	-	-	-	-	-
4.32.5 Other wrapping + packaging n.e.s.	22	22	22	22	22	22
4.32.51 Wrapping paper	4	4	4	4	4	4
4.32.52 Packaging paperboard	18	18	18	18	18	18
4.33 Other paper + board, n.e.s. total	2	2	2	2	2	2
4.33.1 Paper, n.e.s.	2	2	2	2	2	2
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

82 Country: ITALY

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	1,160	..	1,160	..	1,160	..	1,160	..	1,160	1,160
1.1 Mechanical	670	..	670	..	670	..	670	..	670	670
1.11 of which non-coniferous	..	..	..	..	..	..	..	..	..	..
1.12 coniferous	..	..	..	..	..	..	..	..	..	..
1.2 Thermo-mechanical	..	..	..	..	..	..	..	..	..	..
1.21 of which non-coniferous	..	..	..	..	..	..	..	..	..	..
1.22 coniferous	..	..	..	..	..	..	..	..	..	..
1.3 Semi-chemical	220	..	220	..	220	..	220	..	220	220
1.31 of which non-coniferous	..	..	..	..	..	..	..	..	..	..
1.32 coniferous	..	..	..	..	..	..	..	..	..	..
1.4 Chemical, total	270	..	270	..	270	..	270	..	270	270
1.41 Unbleached sulphite	..	..	..	..	..	..	..	..	..	..
1.41.1 of which non-coniferous	..	..	..	..	..	..	..	..	..	..
1.41.2 coniferous	..	..	..	..	..	..	..	..	..	..
1.42 Bleached sulphite x	..	..	..	..	..	..	..	..	..	..
1.42.1 of which non-coniferous	..	..	..	..	..	..	..	..	..	..
1.42.2 coniferous	..	..	..	..	..	..	..	..	..	..
1.43 Unbl. sulphate+soda	..	..	..	..	..	..	..	..	..	..
1.43.1 of which non-coniferous	..	..	..	..	..	..	..	..	..	..
1.43.2 coniferous	..	..	..	..	..	..	..	..	..	..
1.44 Bl. sulphate+soda x	..	..	..	..	..	..	..	..	..	..
1.44.1 of which non-coniferous	..	..	..	..	..	..	..	..	..	..
1.44.2 coniferous	..	..	..	..	..	..	..	..	..	..
2. Other fibre pulp*, total	435	-	435	-	435	-	435	-	435	435
2.1 Straw	420	-	420	-	420	-	420	-	420	420
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	15	-	15	-	15	-	15	-	15	15
3. Dissolving pulp <sup>φ</sup>	95	-	96	-	96	-	96	-	96	96
3.1 of which non-coniferous	..	-	..	-	..	-	..	-	..	..
3.2 coniferous	..	-	..	-	..	-	..	-	..	..

\* for making paper + paperboard

x including semi-bleached

<sup>φ</sup> of wood + other raw materials.

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

82 Country: ITALY

PRODUCTS		1979	1980	1981	1982	1983	1984
		1000 metric tons per year					
4.	Paper + paperboard, total	5,712	5,768	5,768	5,768	5,768	5,768
4.1	Newsprint	300	300	300	300	300	300
4.2	Other printing + writing, total	1,995	2,017	2,017	2,017	2,017	2,017
4.21	Coated	..	..	..	..	..	..
4.21.1	Wood containing	..	..	..	..	..	..
4.21.2	Wood free	..	..	..	..	..	..
4.22	Uncoated	..	..	..	..	..	..
4.22.1	Wood containing	..	..	..	..	..	..
4.22.2	Wood free	..	..	..	..	..	..
4.3	Other paper + paperboard, total	3,417	3,451	3,451	3,451	3,451	3,451
4.31	Household + sanitary	..	..	..	..	..	..
4.32	Wrapping + packaging, total	..	..	..	..	..	..
4.32.1	Linerboard	..	..	..	..	..	..
4.32.11	Kraft liner	..	..	..	..	..	..
4.32.11.1	Unbleached	..	..	..	..	..	..
4.32.11.4	Bleached	..	..	..	..	..	..
4.32.12	Other linerboard	..	..	..	..	..	..
4.32.2	Fluting medium	..	..	..	..	..	..
4.32.21	Semi-chemical	..	..	..	..	..	..
4.32.22	Other fluting medium	..	..	..	..	..	..
4.32.3	Kraft wrapping + packaging	..	..	..	..	..	..
4.32.31	Sack kraft	..	..	..	..	..	..
4.32.32	Other kraft wrapping + packaging	..	..	..	..	..	..
4.32.4	Folding boxboard	..	..	..	..	..	..
4.32.41	Pulp based	..	..	..	..	..	..
4.32.41.1	Bleached chemical	..	..	..	..	..	..
4.32.41.2	Other pulp based	..	..	..	..	..	..
4.32.42	Waste paper based	..	..	..	..	..	..
4.32.5	Other wrapping + packaging n.e.s.	..	..	..	..	..	..
4.32.51	Wrapping paper	..	..	..	..	..	..
4.32.52	Packaging paperboard	..	..	..	..	..	..
4.33	Other paper + board, n.e.s. total	..	..	..	..	..	..
4.33.1	Paper, n.e.s.	..	..	..	..	..	..
4.33.2	Paperboard, n.e.s.	..	..	..	..	..	..

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

83 Country: NETHERLANDS

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	170	-	213	-	209	-	211	-	211	211
1.1 Mechanical	170	-	155	-	146	-	148	-	148	148
1.11 of which non-coniferous	20	-	20	-	20	-	20	-	20	20
1.12 coniferous	150	-	135	-	126	-	128	-	128	128
1.2 Thermo-mechanical	-	-	58	-	63	-	63	-	63	63
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	58	-	63	-	63	-	63	63
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	-	-	-	-	-	-	-	-	-	-
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	-	-	-	-
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-

2. Other fibre pulp*, total	11	-	8	-	2	-	2	-	2	2
2.1 Straw	9	-	6	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	2	-	2	-	2	-	2	-	2	2

3. Dissolving pulp $\phi$	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

$\phi$  of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

83 Country: NETHERLANDS

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	1,933	1,967	1,964	1,971	1,976	1,976
4.1 Newsprint	141	192	190	190	195	195
4.2 Other printing + writing, total	656	667	673	680	680	680
4.21 Coated	221	223	225	225	225	225
4.21.1 Wood containing	..	..	..	..	..	..
4.21.2 Wood free	..	..	..	..	..	..
4.22 Uncoated	435	444	448	455	455	455
4.22.1 Wood containing	85	88	95	99	99	99
4.22.2 Wood free	350	356	353	356	356	356
4.3 Other paper + paperboard, total	1,136	1,108	1,101	1,101	1,101	1,101
4.31 Household + sanitary	117	118	118	118	118	118
4.32 Wrapping + packaging, total	965	935	928	928	928	928
4.32.1 Linerboard	110	112	112	112	112	112
4.32.11 Kraft liner	7	7	7	7	7	7
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.4 Bleached	7	7	7	7	7	7
4.32.12 Other linerboard	103	105	105	105	105	105
4.32.2 Fluting medium	223	216	216	216	216	216
4.32.21 Semi-chemical	1	-	-	-	-	-
4.32.22 Other fluting medium	222	216	216	216	216	216
4.32.3 Kraft wrapping + packaging	50	36	32	32	32	32
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping + packaging	50	36	32	32	32	32
4.32.4 Folding boxboard	145	145	145	145	145	145
4.32.41 Pulp based	..	..	..	..	..	..
4.32.41.1 Bleached chemical	..	..	..	..	..	..
4.32.41.2 Other pulp based	..	..	..	..	..	..
4.32.42 Waste paper based	..	..	..	..	..	..
4.32.5 Other wrapping + packaging n.e.s.	437	426	423	423	423	423
4.32.51 Wrapping paper:	42	27	24	24	24	24
4.32.52 Packaging paperboard	395	399	399	399	399	399
4.33 Other paper + board, n.e.s. total	54	55	55	55	55	55
4.33.1 Paper, n.e.s.	5	5	5	5	5	5
4.33.2 Paperboard, n.e.s.	49	50	50	50	50	50

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

84 Country: NORWAY

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	1,850	575	1,930	650	2,230	675	2,350	675	2,320	2,330
1.1 Mechanical	1,120	400	1,120	400	1,120	400	1,130	400	1,130	1,140
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	1,120	400	1,120	400	1,120	400	1,130	400	1,130	1,140
1.2 Thermo-mechanical	170	30	170	30	320	30	430	30	430	430
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	170	30	170	30	320	30	430	30	430	430
1.3 Semi-chemical	80	35	80	35	80	35	80	35	80	80
1.31 of which non-coniferous	80	35	80	35	80	35	80	35	80	80
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	480	110	560	185	710	210	710	210	680	680
1.41 Unbleached sulphite	90	15	100	20	100	20	100	20	100	100
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	90	15	100	20	100	20	100	20	100	100
1.42 Bleached sulphite x	190	95	190	95	180	90	180	90	180	180
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	190	95	190	95	180	90	180	90	180	180
1.43 Unbl. sulphate+soda	180	-	200	10	180	-	180	-	150	150
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	180	-	200	10	180	-	180	-	150	150
1.44 Bl. sulphate+soda x	20	-	70	60	250	100	250	100	250	250
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	20	-	70	60	250	100	250	100	250	250
2. Other fibre pulp*, total	-	-	-	-	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-
3. Dissolving pulp $\phi$	120	90	125	95	125	95	125	95	125	125
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	120	90	125	95	125	95	125	95	125	125

\* for making paper + paperboard

x including semi-bleached

 $\phi$  of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

84 Country: NORWAY

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	1,725	1,750	1,825	1,960	2,050	2,100
4.1 Newsprint	675	700	760	875	950	1,000
4.2 Other printing + writing, total	420	420	420	430	435	435
4.21 Coated	5	8	10	12	12	15
4.21.1 Wood containing	..	..	..	..	..	..
4.21.2 Wood free	..	..	..	..	..	..
4.22 Uncoated	415	412	410	418	423	420
4.22.1 Wood containing	255	255	255	265	270	270
4.22.2 Wood free	160	157	155	153	153	150
4.3 Other paper + paperboard, total	630	630	645	655	665	665
4.31 Household + sanitary	40	40	40	40	40	40
4.32 Wrapping + packaging, total	545	545	560	565	575	575
4.32.1 Linerboard	40	40	45	45	45	45
4.32.11 Kraft liner	40	40	45	45	45	45
4.32.11.1 Unbleached	35	35	40	40	40	40
4.32.11.4 Bleached	5	5	5	5	5	5
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium	80	80	80	80	80	80
4.32.21 Semi-chemical	..	..	..	..	..	..
4.32.22 Other fluting medium	..	..	..	..	..	..
4.32.3 Kraft wrapping + packaging	165	165	170	170	180	180
4.32.31 Sack kraft	110	110	115	115	125	125
4.32.32 Other kraft wrapping + packaging	55	55	55	55	55	55
4.32.4 Folding boxboard	90	90	90	95	95	95
4.32.41 Pulp based	..	..	..	..	..	..
4.32.41.1 Bleached chemical	..	..	..	..	..	..
4.32.41.2 Other pulp based	..	..	..	..	..	..
4.32.42 Waste paper based	..	..	..	..	..	..
4.32.5 Other wrapping + packaging n.e.s.	170	170	175	175	175	175
4.32.51 Wrapping paper	165	165	170	170	170	170
4.32.52 Packaging paperboard	5	5	5	5	5	5
4.33 Other paper + board, n.e.s. total	45	45	45	50	50	50
4.33.1 Paper, n.e.s.	25	25	25	30	30	30
4.33.2 Paperboard, n.e.s.	20	20	20	20	20	20

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

85 Country: POLAND

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	833	-	941	-	1,035	-	1,062	-	1,105	1,105
1.1 Mechanical	166	-	166	-	166	-	166	-	166	166
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	166	-	166	-	166	-	166	-	166	166
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	88	-	107	-	133	-	141	-	144	144
1.31 of which non-coniferous	88	-	107	-	133	-	141	-	144	144
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	579	-	668	-	736	-	755	-	795	795
1.41 Unbleached sulphite	40	-	42	-	42	-	42	-	42	42
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	40	-	42	-	42	-	42	-	42	42
1.42 Bleached sulphite x	100	-	103	-	103	-	103	-	103	103
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	100	-	103	-	103	-	103	-	103	103
1.43 Unbl. sulphate+soda	366	-	382	-	382	-	382	-	422	422
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	366	-	382	-	382	-	382	-	422	422
1.44 Bl. sulphate+soda x	73	-	141	-	209	-	228	-	228	228
1.44.1 of which non-coniferous	6	-	52	-	65	-	73	-	73	73
1.44.2 coniferous	67	-	89	-	144	-	155	-	155	155
2. Other fibre pulp*, total	21	-	21	-	21	-	21	-	21	21
2.1 Straw	19	-	19	-	19	-	19	-	19	19
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	2	-	2	-	2	-	2	-	2	2
3. Dissolving pulp <sup>o</sup>	73	-	73	-	73	-	73	-	73	73
3.1 of which non-coniferous	61	-	61	-	61	-	61	-	61	61
3.2 coniferous	12	-	12	-	12	-	12	-	12	12

\* for making paper + paperboard

x including semi-bleached

<sup>o</sup> of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

85 Country: POLAND

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	1,446	1,456	1,536	1,619	1,736	1,736
4.1 Newsprint	90	90	90	95	100	100
4.2 Other printing + writing, total	250	260	340	360	420	420
4.21 Coated	18	18	18	18	18	18
4.21.1 Wood containing	10	10	10	10	10	10
4.21.2 Wood free	8	8	8	8	8	8
4.22 Uncoated	232	242	322	342	402	402
4.22.1 Wood containing	85	95	139	149	196	196
4.22.2 Wood free	147	147	183	193	206	206
4.3 Other paper + paperboard, total	1,106	1,106	1,106	1,164	1,216	1,216
4.31 Household + sanitary	104	104	104	104	104	104
4.32 Wrapping + packaging, total	851	851	851	909	961	961
4.32.1 Linerboard	173	173	173	173	173	173
4.32.11 Kraft liner	60	60	60	60	60	60
4.32.11.1 Unbleached	60	60	60	60	60	60
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	113	113	113	113	113	113
4.32.2 Fluting medium	88	88	88	88	88	88
4.32.21 Semi-chemical	79	79	79	79	79	79
4.32.22 Other fluting medium	9	9	9	9	9	9
4.32.3 Kraft wrapping + packaging	262	262	262	282	282	282
4.32.31 Sack kraft	176	176	176	176	176	176
4.32.32 Other kraft wrapping + packaging	86	86	86	106	106	106
4.32.4 Folding boxboard	190	190	190	228	280	280
4.32.41 Pulp based	10	10	10	20	20	20
4.32.41.1 Bleached chemical	4	4	4	14	14	14
4.32.41.2 Other pulp based	6	6	6	6	6	6
4.32.42 Waste paper based	180	180	180	208	260	260
4.32.5 Other wrapping + packaging n.e.s.	138	138	138	138	138	138
4.32.51 Wrapping paper	135	135	135	135	135	135
4.32.52 Packaging paperboard	3	3	3	3	3	3
4.33 Other paper + board, n.e.s. total	151	151	151	151	151	151
4.33.1 Paper, n.e.s.	75	75	75	75	75	75
4.33.2 Paperboard, n.e.s.	76	76	76	76	76	76

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

86 Country: PORTUGAL

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	897	545	905	678	939	683	979	723	979	979
1.1 Mechanical	-	-	-	-	-	-	-	-	-	-
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	897	545	905	678	939	683	979	723	979	979
1.41 Unbleached sulphite	-	-	-	-	2	2	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	2	2	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	87	87	95	95	98	98	100	100	100	100
1.42.1 of which non-coniferous	87	87	95	95	98	98	100	100	100	100
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	248	82	248	74	277	74	297	94	297	297
1.43.1 of which non-coniferous	25	23	25	24	25	24	29	28	29	29
1.43.2 coniferous	223	59	223	50	252	50	268	66	268	268
1.44 Bl. sulphate+soda x	562	376	562	509	562	509	582	529	582	582
1.44.1 of which non-coniferous	542	358	537	484	537	484	557	504	557	557
1.44.2 coniferous	20	18	25	25	25	25	25	25	25	25
2. Other fibre pulp*, total	42	-	42	-	42	-	42	-	42	42
2.1 Straw	12	-	12	-	12	-	12	-	12	12
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	30	-	30	-	30	-	30	-	30	30
3. Dissolving pulp $\phi$	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

 $\phi$  of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

86 Country: PORTUGAL

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	638	626	688	728	736	736
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing + writing, total	100	100	115	115	115	115
4.21 Coated	10	10	10	10	10	10
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	10	10	10	10	10	10
4.22 Uncoated	90	90	105	105	105	105
4.22.1 Wood containing	15	15	20	20	20	20
4.22.2 Wood free	75	75	85	85	85	85
4.3 Other paper + paperboard, total	538	526	573	613	621	621
4.31 Household + sanitary	28	28	34	50	58	58
4.32 Wrapping + packaging, total	432	420	461	485	485	485
4.32.1 Linerboard	192	180	221	245	245	245
4.32.11 Kraft liner	150	150	179	199	199	199
4.32.11.1 Unbleached	145	145	174	193	193	193
4.32.11.4 Bleached	5	5	5	6	6	6
4.32.12 Other linerboard	42	30	42	46	46	46
4.32.2 Fluting medium	48	48	48	48	48	48
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	48	48	48	48	48	48
4.32.3 Kraft wrapping + packaging	94	94	94	94	94	94
4.32.31 Sack kraft	64	64	64	64	64	64
4.32.32 Other kraft wrapping + packaging	30	30	30	30	30	30
4.32.4 Folding boxboard	58	58	58	58	58	58
4.32.41 Pulp based	..	..	..	..	..	..
4.32.41.1 Bleached chemical	..	..	..	..	..	..
4.32.41.2 Other pulp based	..	..	..	..	..	..
4.32.42 Waste paper based	..	..	..	..	..	..
4.32.5 Other wrapping + packaging n.e.s.	40	40	40	40	40	40
4.32.51 Wrapping paper:	..	..	..	..	..	..
4.32.52 Packaging paperboard	..	..	..	..	..	..
4.33 Other paper + board, n.e.s. total	78	78	78	78	78	78
4.33.1 Paper, n.e.s.	70	70	70	70	70	70
4.33.2 Paperboard, n.e.s.	8	8	8	8	8	8

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

87 Country: ROMANIA

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	710	37	794	37	818	37	830	37	830	830
1.1 Mechanical	128	-	128	-	128	-	128	-	128	128
1.11 of which non-coniferous	16	-	16	-	16	-	16	-	16	16
1.12 coniferous	112	-	112	-	112	-	112	-	112	112
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	44	-	44	-	44	-	44	-	44	44
1.31 of which non-coniferous	44	-	44	-	44	-	44	-	44	44
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	538	37	622	37	646	37	658	37	658	658
1.41 Unbleached sulphite	57	..	57	..	57	..	57	..	57	57
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	57	..	57	..	57	..	57	..	57	57
1.42 Bleached sulphite x	78	..	78	..	78	..	78	..	78	78
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	78	..	78	..	78	..	78	..	78	78
1.43 Unbl. sulphate+soda	208	..	292	..	316	..	328	..	328	328
1.43.1 of which non-coniferous	33	..	75	..	87	..	93	..	93	93
1.43.2 coniferous	175	..	217	..	229	..	235	..	235	235
1.44 Bl. sulphate+soda x	195	..	195	..	195	..	195	..	195	195
1.44.1 of which non-coniferous	95	..	95	..	95	..	95	..	95	95
1.44.2 coniferous	100	..	100	..	100	..	100	..	100	100

2. Other fibre pulp*, total	102	-	102	-	102	-	102	-	102	102
2.1 Straw	58	-	58	-	58	-	58	-	58	58
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	44	-	44	-	44	-	44	-	44	44

3. Dissolving pulp ø	100	100	127	127	127	127	127	127	127	127
3.1 of which non-coniferous	100	100	127	127	127	127	127	127	127	127
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

ø of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

87 Country: ROMANIA

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	868	1,002	1,040	1,059	1,059	1,059
4.1 Newsprint	133	133	133	133	133	133
4.2 Other printing + writing, total	140	175	185	190	190	190
4.21 Coated	6	6	6	6	6	6
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	6	6	6	6	6	6
4.22 Uncoated	134	169	179	184	184	184
4.22.1 Wood containing	50	50	50	50	50	50
4.22.2 Wood free	84	119	129	134	134	134
4.3 Other paper + paperboard, total	595	694	722	736	736	736
4.31 Household + sanitary	25	25	25	25	25	25
4.32 Wrapping + packaging, total	520	614	642	656	656	656
4.32.1 Linerboard	80	94	98	100	100	100
4.32.11 Kraft liner	80	94	98	100	100	100
4.32.11.1 Unbleached	80	94	98	100	100	100
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium	60	144	168	180	180	180
4.32.21 Semi-chemical	40	40	40	40	40	40
4.32.22 Other fluting medium	20	104	128	140	140	140
4.32.3 Kraft wrapping + packaging	175	171	171	171	171	171
4.32.31 Sack kraft	92	94	94	94	94	94
4.32.32 Other kraft wrapping + packaging	83	77	77	77	77	77
4.32.4 Folding boxboard	119	119	119	119	119	119
4.32.41 Pulp based	70	70	70	70	70	70
4.32.41.1 Bleached chemical	30	30	30	30	30	30
4.32.41.2 Other pulp based	40	40	40	40	40	40
4.32.42 Waste paper based	49	49	49	49	49	49
4.32.5 Other wrapping + packaging n. e. s.	86	86	86	86	86	86
4.32.51 Wrapping paper	12	12	12	12	12	12
4.32.52 Packaging paperboard	74	74	74	74	74	74
4.33 Other paper + board, n. e. s. total	50	55	55	55	55	55
4.33.1 Paper, n. e. s.	29	30	30	30	30	30
4.33.2 Paperboard, n. e. s.	21	25	25	25	25	25

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

88 Country: SPAIN

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	1,417	530	1,437	550	1,457	570	1,457	570	1,457	1,457
1.1 Mechanical	328	63	328	63	328	63	328	63	328	328
1.11 of which non-coniferous	48	30	48	30	48	30	48	30	48	48
1.12 coniferous	280	33	280	33	280	33	280	30	280	280
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	100	-	100	-	100	-	100	-	100	100
1.31 of which non-coniferous	..	-	..	-	..	-	..	-	..	..
1.32 coniferous	..	-	..	-	..	-	..	-	..	..
1.4 Chemical, total	989	467	1,009	487	1,029	507	1,029	507	1,029	1,029
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite *	15	15	15	15	15	15	15	15	15	15
1.42.1 of which non-coniferous	15	15	15	15	15	15	15	15	15	15
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	345	65	345	65	345	65	345	65	345	345
1.43.1 of which non-coniferous	25	25	25	25	25	25	25	25	25	25
1.43.2 coniferous	320	40	320	40	320	40	320	40	320	320
1.44 Bl. sulphate+soda *	629	387	649	407	669	427	669	427	669	669
1.44.1 of which non-coniferous	439	244	459	264	479	284	479	284	479	479
1.44.2 coniferous	190	143	190	143	190	143	190	143	190	190

2. Other fibre pulp*, total	280	31	280	31	280	31	280	31	280	280
2.1 Straw	240	-	240	-	240	-	240	-	240	240
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	40	31	40	31	40	31	40	31	40	40

3. Dissolving pulp <sup>ø</sup>	45	45	52	52	59	59	59	59	59	59
3.1 of which non-coniferous	45	45	52	52	59	59	59	59	59	59
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

<sup>ø</sup> of wood + other raw materials.

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

88 Country: SPAIN

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	2,716	2,729	2,782	2,802	2,822	2,822
4.1 Newsprint	148	148	188	208	228	228
4.2 Other printing + writing, total	665	665	665	665	665	665
4.21 Coated	206	206	206	206	206	206
4.21.1 Wood containing	..	..	..	..	..	..
4.21.2 Wood free	..	..	..	..	..	..
4.22 Uncoated	459	459	459	459	459	459
4.22.1 Wood containing	..	..	..	..	..	..
4.22.2 Wood free	..	..	..	..	..	..
4.3 Other paper + paperboard, total	1,903	1,916	1,929	1,929	1,929	1,929
4.31 Household + sanitary	170	170	170	170	170	170
4.32 Wrapping + packaging, total	1,673	1,686	1,699	1,699	1,699	1,699
4.32.1 Linerboard	553	553	553	553	553	553
4.32.11 Kraft liner	140	140	140	140	140	140
4.32.11.1 Unbleached	120	120	120	120	120	120
4.32.11.2 Bleached	20	20	20	20	20	20
4.32.12 Other linerboard	413	413	413	413	413	413
4.32.2 Fluting medium	480	480	480	480	480	480
4.32.21 Semi-chemical	90	90	90	90	90	90
4.32.22 Other fluting medium	390	390	390	390	390	390
4.32.3 Kraft wrapping + packaging	190	190	190	190	190	190
4.32.31 Sack kraft	190	190	190	190	190	190
4.32.32 Other kraft wrapping + packaging	-	-	-	-	-	-
4.32.4 Folding boxboard	340	340	340	340	340	340
4.32.41 Pulp based	..	..	..	..	..	..
4.32.41.1 Bleached chemical	..	..	..	..	..	..
4.32.41.2 Other pulp based	..	..	..	..	..	..
4.32.42 Waste paper based	..	..	..	..	..	..
4.32.5 Other wrapping + packaging n.e.s.	110	123	136	136	136	136
4.32.51 Wrapping paper	..	..	..	..	..	..
4.32.52 Packaging paperboard	..	..	..	..	..	..
4.33 Other paper + board, n.e.s. total	60	60	60	60	60	60
4.33.1 Paper, n.e.s.	47	47	47	47	47	47
4.33.2 Paperboard, n.e.s.	13	13	13	13	13	13

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

89 Country: SWEDEN

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	10,460	4,410	10,460	4,450	10,570	4,485	10,750	4,405	10,885	11,040
1.1 Mechanical	1,845	495	1,745	515	1,760	525	1,760	525	1,695	1,645
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	1,845	495	1,745	515	1,760	525	1,760	525	1,695	1,645
1.2 Thermo-mechanical	735	125	815	135	740	40	795	40	1,050	1,200
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	735	125	815	135	740	40	795	40	1,050	1,200
1.3 Semi-chemical	430	25	430	25	460	25	470	25	475	480
1.31 of which non-coniferous	395	25	395	25	445	25	455	25	460	465
1.32 coniferous	35	-	35	-	15	-	15	-	15	15
1.4 Chemical, total	7,450	3,765	7,470	3,775	7,610	3,895	7,725	3,815	7,665	7,715
1.41 Unbleached sulphite	485	165	485	165	455	180	455	180	340	310
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	485	165	485	165	455	180	455	180	340	310
1.42 Bleached sulphite x	710	525	660	495	585	440	630	480	630	585
1.42.1 of which non-coniferous	130	95	140	95	140	95	140	95	140	140
1.42.2 coniferous	580	430	520	400	445	345	490	385	490	445
1.43 Unbl. sulphate+soda	2,730	655	2,730	630	2,800	640	2,830	520	2,885	2,950
1.43.1 of which non-coniferous	75	10	75	10	75	10	75	10	75	75
1.43.2 coniferous	2,655	645	2,655	620	2,725	630	2,755	510	2,810	2,875
1.44 Bl. sulphate+soda x	3,525	2,420	3,595	2,485	3,770	2,635	3,810	2,635	3,810	3,870
1.44.1 of which non-coniferous	880	600	880	540	880	535	880	530	880	880
1.44.2 coniferous	2,645	1,820	2,715	1,945	2,890	2,100	2,930	2,105	2,930	2,990
2. Other fibre pulp*, total	-	-	-	-	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-
3. Dissolving pulp <sup>ø</sup>	225	225	145	145	135	135	135	135	135	135
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	225	225	145	145	135	135	135	135	135	135

\* for making paper + paperboard

x including semi-bleached

ø of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

89 Country: SWEDEN

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	7,135	7,215	7,390	7,580	8,070	8,415
4.1 Newsprint	1,805	1,825	1,850	1,820	1,990	2,145
4.2 Other printing + writing, total	1,100	1,140	1,180	1,280	1,475	1,525
4.21 Coated	290	340	360	370	385	390
4.21.1 Wood containing	105	110	115	115	115	115
4.21.2 Wood free	185	230	245	255	270	275
4.22 Uncoated	810	800	820	910	1 090	1,135
4.22.1 Wood containing	330	355	360	405	520	525
4.22.2 Wood free	480	445	460	505	570	610
4.3 Other paper + paperboard, total	4,230	4,250	4,360	4,480	4,605	4,745
4.31 Household + sanitary	240	250	255	270	285	300
4.32 Wrapping + packaging, total	3,575	3,600	3,675	3,785	3,890	4,015
4.32.1 Linerboard	1,110	1,110	1,125	1,125	1,130	1,215
4.32.11 Kraft liner	1,070	1,070	1,095	1,095	1,100	1,180
4.32.11.1 Unbleached	985	980	1,000	1,000	1,000	1,080
4.32.11.1 Bleached	85	90	95	95	100	100
4.32.12 Other linerboard	40	40	30	30	30	35
4.32.2 Fluting medium	380	380	385	395	400	400
4.32.21 Semi-chemical	375	375	380	390	395	395
4.32.22 Other fluting medium	5	5	5	5	5	5
4.32.3 Kraft wrapping + packaging	1,110	1,145	1,165	1,245	1,295	1,315
4.32.31 Sack kraft	845	905	905	905	935	945
4.32.32 Other kraft wrapping + packaging	265	240	260	340	360	370
4.32.4 Folding boxboard	605	605	615	630	665	680
4.32.41 Pulp based	535	535	545	555	570	585
4.32.41.1 Bleached chemical	230	240	235	235	235	235
4.32.41.2 Other pulp based	305	295	310	320	335	350
4.32.42 Waste paper based	70	70	70	75	95	95
4.32.5 Other wrapping + packaging n.e.s.	370	360	385	390	400	405
4.32.51 Wrapping paper	65	50	50	50	50	50
4.32.52 Packaging paperboard	305	310	335	340	350	355
4.33 Other paper + board, n.e.s. total	415	400	430	425	430	430
4.33.1 Paper, n.e.s.	255	240	240	240	240	240
4.33.2 Paperboard, n.e.s.	160	160	190	185	190	190

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

90 Country: SWITZERLAND

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	310	120	320	120	320	120	325	120	325	325
1.1 Mechanical	200	10	210	10	210	10	210	10	210	210
1.11 of which non-coniferous	..	..	..	..	..	..	..	..	..	..
1.12 coniferous	..	..	..	..	..	..	..	..	..	..
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	-	-	-	-	-	-	-	-	-	-
1.31 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	110	110	110	110	110	110	115	110	115	115
1.41 Unbleached sulphite	..	..	..	..	..	..	..	..	..	..
1.41.1 of which non-coniferous	..	..	..	..	..	..	..	..	..	..
1.41.2 coniferous	..	..	..	..	..	..	..	..	..	..
1.42 Bleached sulphite x	..	..	..	..	..	..	..	..	..	..
1.42.1 of which non-coniferous	..	..	..	..	..	..	..	..	..	..
1.42.2 coniferous	..	..	..	..	..	..	..	..	..	..
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	-	-	-	-
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-
2. Other fibre pulp*, total	-	-	-	-	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-
3. Dissolving pulp $\phi$	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

 $\phi$  of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

90 Country: SWITZERLAND

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	1,000	1,000	1,000	1,000	1,000	1,000
4.1 Newsprint	220	220	220	220	220	220
4.2 Other printing + writing, total	305	305	305	305	305	305
4.21 Coated	90	90	90	90	90	90
4.21.1 Wood containing	60	60	60	60	60	60
4.21.2 Wood free	30	30	30	30	30	30
4.22 Uncoated	215	215	215	215	215	215
4.22.1 Wood containing	100	100	100	100	100	100
4.22.2 Wood free	115	115	115	115	115	115
4.3 Other paper + paperboard, total	475	475	475	475	475	475
4.31 Household + sanitary	95	95	95	95	95	95
4.32 Wrapping + packaging, total	340	340	340	340	340	340
4.32.1 Linerboard	200	200	200	200	200	200
4.32.11 Kraft liner	..	..	..	..	..	..
4.32.11.1 Unbleached	..	..	..	..	..	..
4.32.11.4 Bleached	..	..	..	..	..	..
4.32.12 Other linerboard	..	..	..	..	..	..
4.32.2 Fluting medium	..	..	..	..	..	..
4.32.21 Semi-chemical	..	..	..	..	..	..
4.32.22 Other fluting medium	..	..	..	..	..	..
4.32.3 Kraft wrapping + packaging	40	40	40	40	40	40
4.32.31 Sack kraft	20	20	20	20	20	20
4.32.32 Other kraft wrapping + packaging	20	20	20	20	20	20
4.32.4 Folding boxboard	70	70	70	70	70	70
4.32.41 Pulp based	..	..	..	..	..	..
4.32.41.1 Bleached chemical	..	..	..	..	..	..
4.32.41.2 Other pulp based	..	..	..	..	..	..
4.32.42 Waste paper based	..	..	..	..	..	..
4.32.5 Other wrapping + packaging n.e.s.	30	30	30	30	30	30
4.32.51 Wrapping paper	-	-	-	-	-	-
4.32.52 Packaging paperboard	30	30	30	30	30	30
4.33 Other paper + board, n.e.s. total	40	40	40	40	40	40
4.33.1 Paper, n.e.s.	40	40	40	40	40	40
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

91

Country: UNITED KINGDOM

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	362	25	384	25	400	25	424	25	435	440
1.1 Mechanical	180	-	188	-	204	-	225	-	236	241
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	180	-	188	-	204	-	225	-	236	241
1.2 Thermo-mechanical	1	-	14	-	14	-	14	-	14	14
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	1	-	14	-	14	-	14	-	14	14
1.3 Semi-chemical	106	-	107	-	107	-	110	-	110	110
1.31 of which non-coniferous	106	-	107	-	107	-	110	-	110	110
1.32 coniferous	-	-	-	-	-	-	-	-	-	-
1.4 Chemical, total	75	25	75	25	75	25	75	25	75	75
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	75	25	75	25	75	25	75	25	75	75
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	75	25	75	25	75	25	75	25	75	75
1.43 Unbl. sulphate+soda	-	-	-	-	-	-	-	-	-	-
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.44 Bl. sulphate+soda x	-	-	-	-	-	-	-	-	-	-
1.44.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.44.2 coniferous	-	-	-	-	-	-	-	-	-	-
2. Other fibre pulp*, total	20	-	20	-	20	-	20	-	20	20
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	20	-	20	-	20	-	20	-	20	20
3. Dissolving pulp $\phi$	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

$\phi$  of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

91 Country: UNITED KINGDOM

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	4,692	4,783	4,965	5,100	5,166	5,207
4.1 Newsprint	381	395	406	408	409	409
4.2 Other printing + writing, total	1,216	1,190	1,243	1,281	1,295	1,305
4.21 Coated	349	367	383	404	410	413
4.21.1 Wood containing	20	17	17	17	17	17
4.21.2 Wood free	329	350	366	387	393	396
4.22 Uncoated	867	823	860	877	885	892
4.22.1 Wood containing	31	26	28	29	30	30
4.22.2 Wood free	836	797	832	848	855	862
4.3 Other paper + paperboard, total	3,095	3,198	3,316	3,411	3,462	3,493
4.31 Household + sanitary	421	435	436	455	472	478
4.32 Wrapping + packaging, total	2,199	2,284	2,391	2,458	2,488	2,509
4.32.1 Linerboard	354	397	416	423	423	424
4.32.11 Kraft liner	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	354	397	416	423	423	424
4.32.2 Fluting medium	532	551	563	572	577	583
4.32.21 Semi-chemical	164	166	168	169	172	173
4.32.22 Other fluting medium	368	385	395	403	405	410
4.32.3 Kraft wrapping + packaging	151	144	150	149	148	147
4.32.31 Sack kraft	49	48	48	48	48	48
4.32.32 Other kraft wrapping + packaging	102	96	102	101	100	99
4.32.4 Folding boxboard	384	390	429	465	486	501
4.32.41 Pulp based	96	96	130	161	181	191
4.32.41.1 Bleached chemical	-	-	-	-	-	-
4.32.41.2 Other pulp based	96	96	130	161	181	191
4.32.42 Waste paper based	288	294	299	304	305	310
4.32.5 Other wrapping + packaging n.e.s.	778	802	833	849	854	854
4.32.51 Wrapping paper	302	286	290	294	295	296
4.32.52 Packaging paperboard	476	516	543	555	559	558
4.33 Other paper + board, n.e.s. total	475	479	489	498	502	506
4.33.1 Paper, n.e.s.	267	262	270	274	278	281
4.33.2 Paperboard, n.e.s.	208	217	219	224	224	225

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

92 Country: YUGOSLAVIA

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	623	..	625	..	682	..	698	..	706	706
1.1 Mechanical	141	..	143	..	144	..	144	..	144	144
1.11 of which non-coniferous	..	..	..	..	..	..	..	..	..	..
1.12 coniferous	..	..	..	..	..	..	..	..	..	..
1.2 Thermo-mechanical	-	-	-	-	-	-	-	-	-	-
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Semi-chemical	68	..	68	..	68	..	68	..	68	68
1.31 of which non-coniferous	..	..	..	..	..	..	..	..	..	..
1.32 coniferous	..	..	..	..	..	..	..	..	..	..
1.4 Chemical, total	414	..	414	..	470	..	486	..	494	494
1.41 Unbleached sulphite	57	..	57	..	57	..	57	..	57	57
1.41.1 of which non-coniferous	..	..	..	..	..	..	..	..	..	..
1.41.2 coniferous	..	..	..	..	..	..	..	..	..	..
1.42 Bleached sulphite x	74	..	74	..	74	..	74	..	74	74
1.42.1 of which non-coniferous	..	..	..	..	..	..	..	..	..	..
1.42.2 coniferous	..	..	..	..	..	..	..	..	..	..
1.43 Unbl. sulphate+soda	156	..	156	..	156	..	156	..	156	156
1.43.1 of which non-coniferous	..	..	..	..	..	..	..	..	..	..
1.43.2 coniferous	..	..	..	..	..	..	..	..	..	..
1.44 Bl. sulphate+soda x	127	..	127	..	183	..	199	..	207	207
1.44.1 of which non-coniferous	..	..	..	..	..	..	..	..	..	..
1.44.2 coniferous	..	..	..	..	..	..	..	..	..	..
2. Other fibre pulp*, total	22	-	26	-	28	-	28	-	28	28
2.1 Straw	22	-	26	-	28	-	28	-	28	28
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-
3. Dissolving pulp †	105	..	105	..	105	..	105	..	105	105
3.1 of which non-coniferous	..	..	..	..	..	..	..	..	..	..
3.2 coniferous	..	..	..	..	..	..	..	..	..	..

\* for making paper + paperboard

x including semi-bleached

† of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

92 Country: YUGOSLAVIA

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	1,075	1,219	1,292	1,316	1,320	1,320
4.1 Newsprint	135	140	140	140	140	140
4.2 Other printing + writing, total	321	327	327	327	327	327
4.21 Coated	..	..	..	..	..	..
4.21.1 Wood containing	..	..	..	..	..	..
4.21.2 Wood free	..	..	..	..	..	..
4.22 Uncoated	..	..	..	..	..	..
4.22.1 Wood containing	..	..	..	..	..	..
4.22.2 Wood free	..	..	..	..	..	..
4.3 Other paper + paperboard, total	619	752	825	849	853	853
4.31 Household + sanitary	31	31	59	67	71	71
4.32 Wrapping + packaging, total	487	585	620	631	631	631
4.32.1 Linerboard	..	..	..	..	..	..
4.32.11 Kraft liner	..	..	..	..	..	..
4.32.11.1 Unbleached	..	..	..	..	..	..
4.32.11.2 Bleached	..	..	..	..	..	..
4.32.12 Other linerboard	..	..	..	..	..	..
4.32.2 Fluting medium	..	..	..	..	..	..
4.32.21 Semi-chemical	..	..	..	..	..	..
4.32.22 Other fluting medium	..	..	..	..	..	..
4.32.3 Kraft wrapping + packaging	..	..	..	..	..	..
4.32.31 Sack kraft	..	..	..	..	..	..
4.32.32 Other kraft wrapping + packaging	..	..	..	..	..	..
4.32.4 Folding boxboard	..	..	..	..	..	..
4.32.41 Pulp based	..	..	..	..	..	..
4.32.41.1 Bleached chemical	..	..	..	..	..	..
4.32.41.2 Other pulp based	..	..	..	..	..	..
4.32.42 Waste paper based	..	..	..	..	..	..
4.32.5 Other wrapping + packaging n.e.s.	..	..	..	..	..	..
4.32.51 Wrapping paper	..	..	..	..	..	..
4.32.52 Packaging paperboard	..	..	..	..	..	..
4.33 Other paper + board, n.e.s. total	101	136	146	151	151	151
4.33.1 Paper, n.e.s.	..	..	..	..	..	..
4.33.2 Paperboard, n.e.s.	..	..	..	..	..	..

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

93 Country: AUSTRALIA

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp <sup>a</sup> , total	815	3	830	4	864	4	1,008	4	1,026	1,041
1.1 Mechanical	178	-	171	-	171	-	171	-	173	173
1.11 of which non-coniferous	116	-	104	-	104	-	104	-	104	104
1.12 coniferous	62	-	67	-	67	-	67	-	69	69
1.2 Thermo-mechanical	56	-	68	-	101	-	235	-	235	235
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	56	-	68	-	101	-	235	-	235	235
1.3 Semi-chemical	329	-	329	-	330	-	340	-	341	341
1.31 of which non-coniferous	268	-	268	-	269	-	279	-	280	280
1.32 coniferous	61	-	61	-	61	-	61	-	61	61
1.4 Chemical, total	252	3	262	4	262	4	262	4	277	292
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite <sup>x</sup>	56	-	56	-	56	-	56	-	56	56
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	56	-	56	-	56	-	56	-	56	56
1.43 Unbl. sulphate+soda	65	-	75	-	75	-	75	-	85	100
1.43.1 of which non-coniferous	15	-	15	-	15	-	15	-	15	15
1.43.2 coniferous	50	-	60	-	60	-	60	-	70	85
1.44 Bl. sulphate+soda <sup>x</sup>	131	3	131	4	131	4	131	4	136	136
1.44.1 of which non-coniferous	111	3	111	4	111	4	111	4	116	116
1.44.2 coniferous	20	-	20	-	20	-	20	-	20	20
2. Other fibre pulp <sup>a</sup> , total	7	-	7	-	7	-	7	-	7	7
2.1 Straw	2	-	2	-	2	-	2	-	2	2
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	5	-	5	-	5	-	5	-	5	5
3. Dissolving pulp <sup>β</sup>	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

<sup>a</sup> for making paper + paperboard

<sup>x</sup> including semi-bleached

<sup>β</sup> of wood + other raw materials.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

93 Country: AUSTRALIA

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	1,525	1,594	1,678	1,856	1,894	1,920
4.1 Newsprint	208	210	250	390	390	390
4.2 Other printing + writing, total	238	253	256	260	264	267
4.21 Coated	38	40	41	41	42	42
4.21.1 Wood containing	23	25	26	26	27	27
4.21.2 Wood free	15	15	15	15	15	15
4.22 Uncoated	200	213	215	219	222	225
4.22.1 Wood containing	18	21	21	22	22	22
4.22.2 Wood free	182	192	194	197	200	203
4.3 Other paper + paperboard, total	1,079	1,131	1,172	1,206	1,240	1,263
4.31 Household + sanitary	115	117	118	122	126	129
4.32 Wrapping + packaging, total	964	1,014	1,054	1,084	1,114	1,134
4.32.1 Linerboard	100	100	100	100	100	100
4.32.11 Kraft liner	..	..	..	..	..	..
4.32.11.1 Unbleached	..	..	..	..	..	..
4.32.11.1.1 Bleached	..	..	..	..	..	..
4.32.12 Other linerboard	..	..	..	..	..	..
4.32.2 Fluting medium	82	82	82	82	82	82
4.32.21 Semi-chemical	82	82	82	82	82	82
4.32.22 Other fluting medium	-	-	-	-	-	-
4.32.3 Kraft wrapping + packaging	770	820	860	890	920	940
4.32.31 Sack kraft	..	..	..	..	..	..
4.32.32 Other kraft wrapping + packaging	..	..	..	..	..	..
4.32.4 Folding boxboard	10	10	10	10	10	10
4.32.41 Pulp based	..	..	..	..	..	..
4.32.41.1 Bleached chemical	..	..	..	..	..	..
4.32.41.2 Other pulp based	..	..	..	..	..	..
4.32.42 Waste paper based	..	..	..	..	..	..
4.32.5 Other wrapping + packaging n.e.s.	2	2	2	2	2	2
4.32.51 Wrapping paper	2	2	2	2	2	2
4.32.52 Packaging paperboard	-	-	-	-	-	-
4.33 Other paper + board, n.e.s. total	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

94 Country: NEW ZEALAND

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	1,371	752	1,371	752	1,374	755	1,374	755	1,374	1,374
1.1 Mechanical	567	307	567	307	570	310	570	310	570	570
1.11 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.12 coniferous	567	307	567	307	570	310	570	310	570	570
1.2 Thermo-mechanical	68	68	68	68	68	68	68	68	68	68
1.21 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.22 coniferous	68	68	68	68	68	68	68	68	68	68
1.3 Semi-chemical	64	48	64	48	64	48	64	48	64	64
1.31 of which non-coniferous	53	42	53	42	53	42	53	42	53	53
1.32 coniferous	11	6	11	6	11	6	11	6	11	11
1.4 Chemical, total	672	329	672	329	672	329	672	329	672	672
1.41 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.41.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.41.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.42 Bleached sulphite x	-	-	-	-	-	-	-	-	-	-
1.42.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.42.2 coniferous	-	-	-	-	-	-	-	-	-	-
1.43 Unbl. sulphate+soda	386	186	386	186	386	186	386	186	386	386
1.43.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
1.43.2 coniferous	386	186	386	186	386	186	386	186	386	386
1.44 Bl. sulphate+soda x	286	143	286	143	286	143	286	143	286	286
1.44.1 of which non-coniferous	15	10	15	10	15	10	15	10	15	15
1.44.2 coniferous	271	133	271	133	271	133	271	133	271	271

2. Other fibre pulp*, total	-	-	-	-	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	-	-	-	-	-	-	-	-	-	-

3. Dissolving pulp <sup>ø</sup>	-	-	-	-	-	-	-	-	-	-
3.1 of which non-coniferous	-	-	-	-	-	-	-	-	-	-
3.2 coniferous	-	-	-	-	-	-	-	-	-	-

\* for making paper + paperboard

x including semi-bleached

ø of wood + other raw materials.

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

94 Country: NEW ZEALAND

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	775	777	783	783	783	783
4.1 Newsprint	335	335	335	335	335	335
4.2 Other printing + writing, total	36	36	36	36	36	36
4.21 Coated	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated	36	36	36	36	36	36
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	36	36	36	36	36	36
4.3 Other paper + paperboard, total	404	406	412	412	412	412
4.31 Household + sanitary	45	47	53	53	53	53
4.32 Wrapping + packaging, total	359	359	359	359	359	359
4.32.1 Linerboard	104	104	104	104	104	104
4.32.11 Kraft liner	104	104	104	104	104	104
4.32.11.1 Unbleached	101	101	101	101	101	101
4.32.11.1 Bleached	3	3	3	3	3	3
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium	20	20	20	20	20	20
4.32.21 Semi-chemical	20	20	20	20	20	20
4.32.22 Other fluting medium	-	-	-	-	-	-
4.32.3 Kraft wrapping + packaging	108	108	108	108	108	108
4.32.31 Sack kraft	48	48	48	48	48	48
4.32.32 Other kraft wrapping + packaging	60	60	60	60	60	60
4.32.4 Folding boxboard	127	127	127	127	127	127
4.32.41 Pulp based	..	..	..	..	..	..
4.32.41.1 Bleached chemical	..	..	..	..	..	..
4.32.41.2 Other pulp based	..	..	..	..	..	..
4.32.42 Waste paper based	..	..	..	..	..	..
4.32.5 Other wrapping + packaging n.e.s.	-	-	-	-	-	-
4.32.51 Wrapping paper	-	-	-	-	-	-
4.32.52 Packaging paperboard	-	-	-	-	-	-
4.33 Other paper + board, n.e.s. total	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

## FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

95 Country: U S S R (a)

PRODUCTS	1979		1980		1981		1982		1983	1984
	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	of which market pulp	Total Capacity	Total Capacity
1000 metric tons (air dry) per year										
1. Wood pulp*, total	10,050	1,700	10,480	1,800	10,845	1,900	11,250	2,000	11,645	12,050
1.1 Mechanical	2,250	-	2,250	-	2,250	-	2,290	-	2,325	2,360
1.11 of which non-coniferous	..	-	..	-	..	-	..	-	..	..
1.12 coniferous	..	-	..	-	..	-	..	-	..	..
1.2 Thermo-mechanical	-	-	80	-	95	-	110	-	120	140
1.21 of which non-coniferous	-	-	..	-	..	-	..	-	..	..
1.22 coniferous	-	-	..	-	..	-	..	-	..	..
1.3 Semi-chemical	600	-	650	-	700	-	750	-	800	850
1.31 of which non-coniferous	..	-	..	-	..	-	..	-	..	..
1.32 coniferous	..	-	..	-	..	-	..	-	..	..
1.4 Chemical, total	7,200	1,700	7,500	1,800	7,800	1,900	8,100	2,000	8,400	8,700
1.41 Unbleached sulphite	2,850	350	2,900	350	2,950	350	3,000	350	3,050	3,100
1.41.1 of which non-coniferous	..	..	..	..	..	..	..	..	..	..
1.41.2 coniferous	..	..	..	..	..	..	..	..	..	..
1.42 Bleached sulphite x	..	..	..	..	..	..	..	..	..	..
1.42.1 of which non-coniferous	..	..	..	..	..	..	..	..	..	..
1.42.2 coniferous	..	..	..	..	..	..	..	..	..	..
1.43 Unbl. sulphate+soda	3,250	1,200	3,400	1,300	3,550	1,400	3,700	1,500	3,850	4,000
1.43.1 of which non-coniferous	..	..	..	..	..	..	..	..	..	..
1.43.2 coniferous	..	..	..	..	..	..	..	..	..	..
1.44 Bl. sulphate+soda x	1,100	150	1,200	150	1,300	150	1,400	150	1,500	1,600
1.44.1 of which non-coniferous	..	..	..	..	..	..	..	..	..	..
1.44.2 coniferous	..	..	..	..	..	..	..	..	..	..
2. Other fibre pulp*, total	500	..	525	..	550	..	575	..	600	625
2.1 Straw	..	..	..	..	..	..	..	..	..	..
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other	..	..	..	..	..	..	..	..	..	..
3. Dissolving pulp $\phi$	1,325	1,325	1,400	1,400	1,475	1,475	1,550	1,550	1,625	1,700
3.1 of which non-coniferous	..	..	..	..	..	..	..	..	..	..
3.2 coniferous	..	..	..	..	..	..	..	..	..	..

\* for making paper + paperboard

x including semi-bleached

 $\phi$  of wood + other raw materials.

(a) Secretariat estimates

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1979-84

95 Country: U S S R (a)

PRODUCTS	1979	1980	1981	1982	1983	1984
	1000 metric tons per year					
4. Paper + paperboard, total	11,500	12,000	12,500	13,000	13,500	14,000
4.1 Newsprint	1,700	1,750	1,800	1,850	1,900	1,950
4.2 Other printing + writing, total	1,450	1,500	1,550	1,600	1,650	1,700
4.21 Coated	..	..	..	..	..	..
4.21.1 Wood containing	..	..	..	..	..	..
4.21.2 Wood free	..	..	..	..	..	..
4.22 Uncoated	..	..	..	..	..	..
4.22.1 Wood containing	..	..	..	..	..	..
4.22.2 Wood free	..	..	..	..	..	..
4.3 Other paper + paperboard, total	8,350	8,750	9,150	9,550	9,950	10,350
4.31 Household + sanitary	115	115	115	115	115	115
4.32 Wrapping + packaging, total	7,540	7,925	8,310	8,695	9,080	9,465
4.32.1 Linerboard	1,460	1,540	1,620	1,700	1,780	1,860
4.32.11 Kraft liner	..	..	..	..	..	..
4.32.11.1 Unbleached	..	..	..	..	..	..
4.32.11.2 Bleached	..	..	..	..	..	..
4.32.12 Other linerboard	..	..	..	..	..	..
4.32.2 Fluting medium	1,310	1,400	1,490	1,580	1,670	1,760
4.32.21 Semi-chemical	..	..	..	..	..	..
4.32.22 Other fluting medium	..	..	..	..	..	..
4.32.3 Kraft wrapping + packaging	1,650	1,810	1,970	2,130	2,290	2,450
4.32.31 Sack kraft	1,270	1,380	1,490	1,600	1,710	1,820
4.32.32 Other kraft wrapping + packaging	380	430	480	530	580	630
4.32.4 Folding boxboard	1,550	1,590	1,630	1,670	1,710	1,750
4.32.41 Pulp based	1,135	1,175	1,215	1,255	1,295	1,335
4.32.41.1 Bleached chemical	720	760	800	840	880	920
4.32.41.2 Other pulp based	415	415	415	415	415	415
4.32.42 Waste paper based	415	415	415	415	415	415
4.32.5 Other wrapping + packaging n.e.s.	1,570	1,585	1,600	1,615	1,630	1,645
4.32.51 Wrapping paper	635	640	650	655	660	670
4.32.52 Packaging paperboard	935	945	950	960	970	975
4.33 Other paper + board, n.e.s. total	695	710	725	740	755	770
4.33.1 Paper, n.e.s.	350	355	360	365	370	375
4.33.2 Paperboard, n.e.s.	345	355	365	375	385	395

(a) Secretariat estimates

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