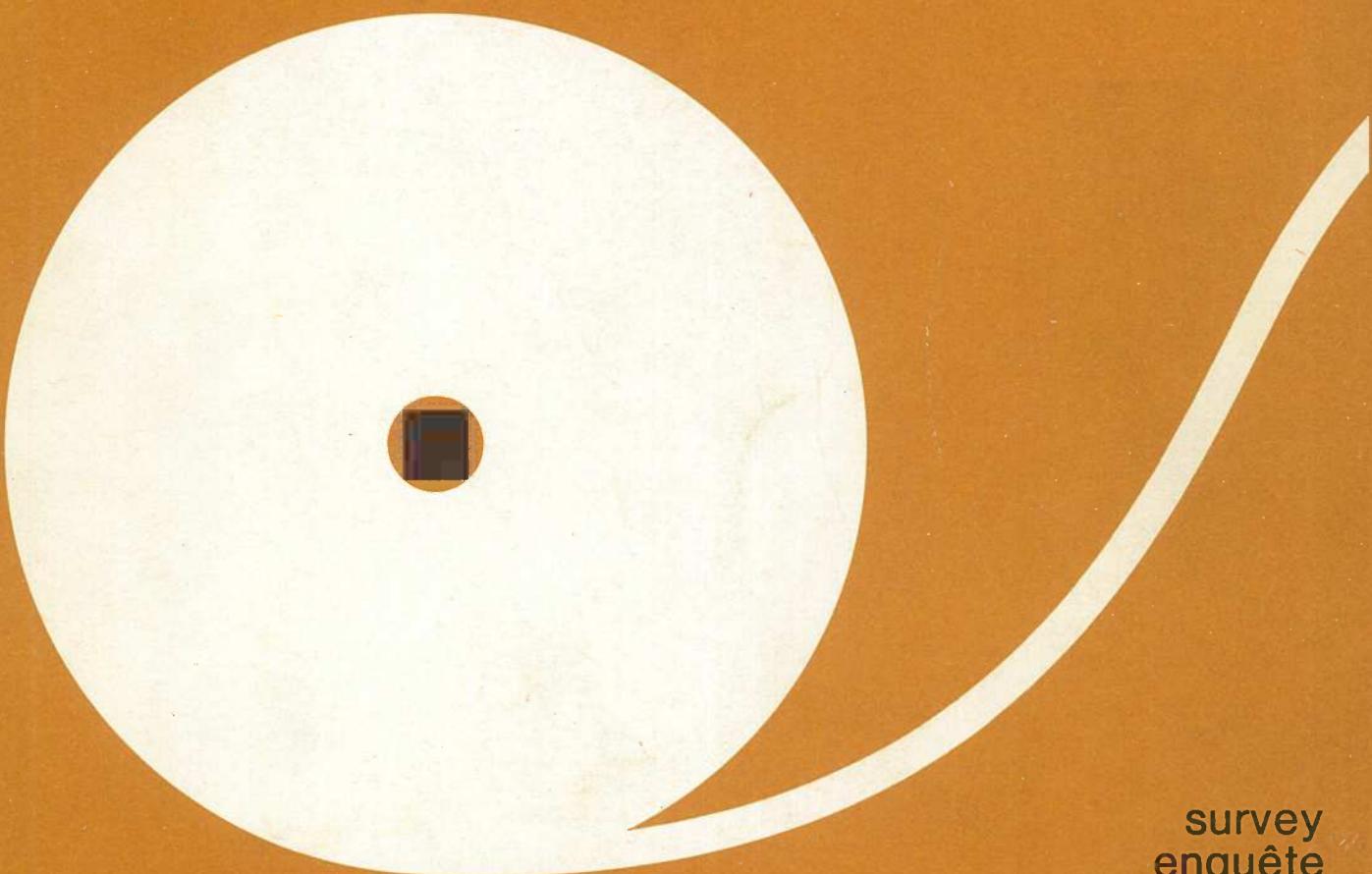


pulp and paper capacities
capacités de la pâte et du papier
capacidades de pasta y papel



survey
enquête
estudio

1976–1981

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS
ORGANISATION DES NATIONS UNIES POUR L'ALIMENTATION ET L'AGRICULTURE
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ORGANIZACION DE LAS NACIONES UNIDAS PARA LA AGRICULTURA Y LA ALIMENTACION, ROMA
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TARLE OF CONTENTS
TABLE DES MATIERES
INDICE

	<u>Page - Página</u>
Report on the FAO Survey of World Pulp and Paper Capacities 1976-81	1
Rapport concernant l'Enquête FAO sur la capacité mondiale de production de pâte et papier 1976-81	13
Informe de la FAO sobre la Encuesta acerca de la Capacidad Mundial de Producción de Pasta y Papel 1976-81	25
Annexes 1 - 11	37
Definitions	51
Définitions	61
Definiciones	72
Country Data Chiffres par Pays Datos Relativos a los Paises	83
List of Countries Liste de Pays Lista de los Paises	84
Pulp Terminology Terminologie de la pâte Terminología de la Pasta	86
Paper and Paperboard Terminology Terminologie du papier et du carton Terminología de Papel y Cartón	87

Report
on the
FAO Survey
of
World Pulp and Paper Capacities 1976-81
by
The Secretariat

The annual FAO Surveys of World Pulp and Paper Capacities are based on figures received early in the year from correspondants in most countries of the world and on Secretariat estimates for the remaining few countries. By and large, the data are provided by national pulp and paper trade associations from information obtained from members during the preceding year concerning their future development plans. The results accordingly reflect industries' intentions at the time of the surveys, which subsequent economic, financial and market conditions may influence significantly.

The coverage, content and presentation of the survey, which were all amended last year, have not undergone any further changes. However, thanks to the ever increasing interest shown in the results and the use made of them, a number of countries have re-structured their own surveys in order to obtain more meaningful and accurate data. In addition, for some developing countries, better information has been obtained as a result of the detailed investigations into existing manufacturing facilities carried out under the UMDP/FAO Pulp and Paper Industries Development Programme. Once again, therefore, the quality of the data presented has been improved.

As an innovation this year, a list of expansion plans covering the next ten years has been prepared, with the active assistance of the FAO Advisory Committee on Pulp and Paper and other participants in the survey. In the list, which is published separately, the company, product, capacity and year of expected start-up of the many projects under consideration at the present time are identified. Where appropriate, the expected additional capacity has been cross checked with the data given in the current survey, but it should be noted that the list is not exhaustive; significant additional capacity can result from machine improvements, confidential plans, etc., details of which are not available. Nonetheless, it is hoped that the information now provided will be useful for all those responsible for planning the future of the industry.

The main findings of the pulp and paper capacity survey for 1976-81 are that:

- a) world capacity of paper grades of pulp is expected to rise from 140 million tons in 1976 to 163 million tons in 1981. This increase of 23 million tons represents an annual growth rate of 3.1 per cent
- b) world capacity of paper and paperboard is expected to rise from 180 million tons in 1976 to 208 million tons in 1981. This increase of 28 million tons represents an annual growth rate of 2.9 per cent

- c) both the additional 23 million tons of paper grades of pulp and the 28 million tons of paper and board are comparable to the lowest increases anticipated during any of the last seven surveys
- d) in Western Europe and Latin America woodpulp capacity in 1981 is below the level anticipated for 1980 in last year's survey but in Western Europe and Africa for paper and paperboard
- e) of the additional 15.3 million tons of chemical woodpulp expected between 1976 and 1981, the largest increases will be in Northern America (5.8 million tons). In Brazil alone, the addition is estimated by the industry at 2.5 million tons, down from the 3.1 million tons given in last year's survey for the five year period 1975 to 1980
- f) the bleached sulphate hardwood pulp capacity is likely to register a gain of no less than 4.3 million tons from 15.5 million tons in 1976 to 19.8 million tons in 1981. This compares to an increase of 4.7 million tons in the survey for 1975-80
- g) other fibre pulp continues to play an important role in providing domestic raw materials for papermaking in developing countries
- h) a rapid rise in paper and paperboard capacity in developing countries is expected, adding some 40 per cent or 5.1 million tons to their existing manufacturing capability. An almost equal addition is expected in countries with centrally planned economies. Increases in capacity in the developed countries, although larger in volume (18.2 million tons), will mean an expansion of just over 12 per cent
- i) the increase in the capacity of wrapping and packaging paper and paperboard, amounting to 13.2 million tons, is lower than the 15.5 noted last year but still accounts for about one half of the total increase of paper and paperboard
- j) the decline in the ratio of pulp manufacturing capacity to paper and paperboard capacity should be halted by 1977 and an improvement ensue.

Product and Regional Trends

The world capacity of paper grades of pulp, as indicated in the current survey, is expected to increase from 139.6 million tons in 1976 to 162.9 million tons in 1981, at the same time as paper and paperboard capacity rises from 179.8 to 207.9 million tons. Table 1, which follows, summarises the developments by main grades and also illustrates that over the fifteen year period 1966-81, pulp capacity will have risen by about three quarters and paper and paperboard capacity by a somewhat larger proportion. Details by major product and region for each of the years 1976-81 are contained in Annexes 1-6.

Table 1 - World Pulp, Paper and Paperboard Capacity, 1966-81

	Total Capacity				Annual Average Increase		
	1966 -- million	1971 metric tons --	1976	1981	1966-71 per cent	1971-76	1976-81
Total woodpulp, paper grades	86.3	110.6	129.9	151.1	5.1	3.3	3.1
Mechanical	23.8	27.6	31.1	35.4	3.0	2.4	2.7
Semi-chemical (a)	6.2	8.8	10.5	12.0	7.1	3.7	2.7
Chemical	56.3	74.2	88.3	103.6	5.7	3.6	3.2
Other fibre pulp	6.4	7.3	9.7	11.8	2.5	5.9	4.1
Dissolving pulp	5.1	5.7	5.8	6.4	2.1	0.3	2.2
Total Paper and Paperboard	113.3	146.3	179.8	207.9	5.2	4.2	2.9
Newsprint	19.9	23.9	25.4	30.1	3.8	1.3	3.4
Printing and writing	22.7	31.6	39.5	46.4	6.9	4.5	3.3
Other paper and paperboard	70.8	90.8	114.9	131.4	5.1	4.8	2.7

(a) including chemi-groundwood

A diminution in the rate of growth of both pulp and paper is expected in the future and it is most marked in relation to the actual development of the industry between 1966 and 1971. The lower expectations for paper and paperboard as compared to pulp are particularly to be noted. On a year to year basis, there is but little variation over the next three years in the rate of growth of total pulp and paper and paperboard, during which period expansion plans are firmly based and many already being executed, but in the final two years of the survey the rate is significantly reduced. These points are illustrated in the table which follows.

Table 2 - Annual Rate of Increases in World Pulp, Paper and Paperboard Capacity 1976-81

	Annual Increases				
	1976-77 per cent	1977-78	1978-79	1979-80	1980-81
Total woodpulp, paper grades	3.0	3.4	3.2	3.4	2.3
Mechanical	3.2	3.2	2.4	2.8	1.6
Semi-chemical (a)	4.0	2.8	2.4	2.7	1.5
Chemical	2.8	3.5	3.6	3.7	2.6
Other fibre pulp	3.9	5.9	4.9	3.9	1.9
Dissolving pulp	0.7	3.8	2.6	2.6	1.5
Total paper and paperboard	3.5	3.5	3.2	2.7	1.9
Newsprint	2.9	4.2	3.9	3.9	2.3
Printing and writing	4.4	3.7	3.4	2.8	2.1
Other paper and paperboard	3.4	3.2	2.9	2.5	1.7

(a) including chemi-groundwood

a) Total Pulp for Papermaking

Between 1976 and 1981, an increase of 23.3 million tons of papermaking grades of pulp capacity is expected at an annual average rate of 3.1 per cent. Mechanical pulp will account for 4.3 million tons, semi-chemical 1.5 million, chemical pulp 15.3 million and the remaining 2.1 million tons will be of other fibre pulp. For all these major grades of pulp, the planned additions are smaller than the amounts indicated for the five year periods in the last two surveys; this is particularly true for semi-chemical pulp where the expansion is now over 3/4 million tons less than was envisaged in the 1973-78 survey. Only marginal annual additions are expected to dissolving pulp capacity.

The importance of the use of hardwoods in pulping can best be illustrated by reference to bleached sulphate pulp, which accounts for well over half the anticipated expansion of chemical pulp. Between 1976 and 1981, no less than 9.4 million tons of bleached sulphate pulp capacity will be added of which approximately half (4.4 million tons) will be based on hardwoods. Most of the increase will be located in the U.S.A., Finland, Spain, Japan and Brazil, in the latter case being based mainly on eucalyptus plantations.

The fluctuations in the future levels of market pulp capacity from one survey to the next reflect the volatility of the demand for this product. The results of the last three surveys have, however, indicated an anticipated increase of 2 $\frac{1}{2}$ to 3 million tons over a three year period which compares to 4 million tons additional capacity actually installed over the last five years. The pace of expansion is therefore accelerating slightly. Practically all the additional market pulp capacity will be bleached sulphate pulp, more softwood than hardwood, and most of the hardwood pulp coming from the developing countries, particularly Brazil. These developments can be traced in detail in Annex 8 and are illustrated in Annex 11.

i) Woodpulp

The volume of additional capacity of woodpulp for papermaking in the world during the five years 1976-81 is expected to be 21.1 million tons, an amount greater by almost 2 million tons than that actually installed between 1971 and 1976, but 3 million tons less than was added between 1966 and 1971. The average rate of growth is almost constant compared to the recent past, 3.1 versus 3.3 per cent a year, but much lower than the 5.1 per cent of the earlier period. There are some significant changes in the location of this capacity as can be seen from Table 3 on page 5.

Of the 21.1 million tons of new capacity between 1976 and 1981, over 13 million tons (62.8 per cent) will be installed in the developed countries of the world, 4.4 million tons (20.7 per cent) in the developing countries and 3.5 million tons in countries with centrally planned economies. Compared to last year's survey, there has been a slowing down in the rate of expansion, principally in the developing countries. This is partly due to the postponement of some plans and the reappraisal of others, in the light of economic, financial and market conditions. Planned expansions in Brazil, for example, have been reduced from 3.3 million tons between 1975 and 1980 to 2.7 million tons between 1976 and 1981.

The world rate of growth is expected to register a marginal decline in the future, but with a marked decrease in the developed and centrally planned countries and a significant increase in developing countries as compared to 1971-76. The much reduced expansions planned in Japan, New Zealand and South Africa account for most of the decline. In volume terms, Brazil will contribute well over half the additional supplies coming from developing countries.

Table 3 - Increases in Capacity of Total Woodpulp
for Papermaking, 1971-81

	Capacity			Total Increase		Annual Average Increase	
	1971	1976	1981	1971-76	1976-81	1971-76	1976-81
	'000 metric tons					per cent	
World Total	110 571	129 921	151 055	19 350	21 134	3.3	3.1
Dev'ed Mkt. Economies	96 218	110 375	123 637	14 157	13 262	2.8	2.3
Northern America	58 205	65 001	72 259	6 796	7 258	2.2	2.1
Japan	9 547	11 985	13 274	2 438	1 289	4.7	2.1
Western Europe	26 884	30 547	34 722	3 663	4 175	2.6	2.6
Oceania	1 112	2 118	2 458	1 006	340	13.8	3.0
Others	470	724	924	254	200	9.0	5.0
Dev'ing Mkt. Economies	2 923	5 082	9 457	2 159	4 375	11.7	13.2
Africa	216	312	471	96	159	7.6	8.6
Latin America	2 119	3 694	7 120	1 575	3 426	11.8	14.0
Asia	588	1 076	1 866	488	790	12.8	11.6
Cent. Planned Economies	11 430	14 464	17 961	3 034	3 497	4.8	4.4
Asia	1 567	2 219	2 816	652	597	7.2	4.9
Eastern Europe	2 613	3 395	4 295	782	900	5.4	4.8
U.S.S. R.	7 250	8 850	10 850	1 600	2 000	4.1	4.2

Mechanical Pulp

It is anticipated that between 1976 and 1981 the capacity of mechanical pulp will rise by 4.3 million tons compared to 3.5 million tons in the previous five year period. The annual rate of growth will therefore be higher at 2.7 per cent compared to 2.4 per cent.

Table 4 - Increases in Capacity of Mechanical Woodpulp
for Papermaking, 1971-81

	Capacity			Total Increase		Annual Average Increase	
	1971	1976	1981	1971-76	1976-81	1971-76	1976-81
	'000 metric tons					per cent	
World Total	27 607	31 060	35 408	3 453	4 348	2.4	2.7
Dev'ed Mkt. Economies	23 673	26 476	29 885	2 803	3 409	2.3	2.4
Northern America	12 915	13 419	14 413	504	994	0.8	1.5
Japan	1 485	1 874	2 451	389	577	4.8	5.5
Western Europe	8 748	10 076	11 617	1 328	1 541	2.9	2.9
Oceania	395	807	1 053	412	246	15.4	5.5
Others	130	300	351	170	51	18.2	3.2
Dev'ing Mkt. Economies	664	756	1 225	92	469	2.6	10.1
Africa	16	18	31	2	13	2.4	11.5
Latin America	385	394	599	9	205	0.5	8.7
Asia	263	344	595	81	251	5.5	11.6
Cent. Planned Economies	3 270	3 828	4 298	558	470	3.2	2.4
Asia	695	819	1 023	124	204	3.3	4.5
Eastern Europe	675	909	925	234	16	6.1	0.3
U.S.S.R.	1 900	2 100	2 350	200	250	2.0	2.3

It is interesting to note the fast pace of expansion in the developing countries, albeit from a relatively low base, which should go some way to decreasing their dependence on imported supplies.

The installation of thermo-mechanical pulping facilities continues, either as additional capacity or as replacement for traditional stone groundwood. The tonnage involved has not been accurately identified but some estimates suggest it may be as high as 4 million tons by the end of the present decade. Although most TMP plants are at present to be found in developed countries, plans exist for its use in developing countries. The extent to which TMP finds increasing favour will not only be reflected in the growth of mechanical pulp capacity but probably also in a smaller addition to chemical pulp capacity.

Semi-Chemical Pulp

Between 1976 and 1981 the world capacity of chemi-mechanical and semi-chemical pulp is expected to rise from 10.5 to 12.0 million tons, an increase of 1.5 million tons at an annual average rate of 2.7 per cent. This is a somewhat smaller volume than actually came on stream in the previous five years.

Table 5 - Increases in Capacity of Semi-chemical Woodpulp (a)
for Papermaking, 1971-81

	Capacity			Total Increase		Annual Average Increase	
	1971	1976	1981 '000 metric tons	1971-76	1976-81	1971-76	1976-81
	-----	-----	-----	-----	-----	----- per cent -----	-----
World Total	8 783	10 527	12 004	1 744	1 477	3.7	2.7
Dev'ed Mkt. Economies	8 009	9 382	10 005	1 373	623	3.2	1.3
Northern America	3 886	4 410	4 832	524	422	2.6	1.8
Japan	2 097	2 323	2 244	226	- 79	2.1	- 0.7
Western Europe	1 733	2 051	2 232	318	181	3.4	1.7
Oceania	253	444	533	191	89	11.9	3.7
Others	40	154	164	114	10	31.0	1.3
Dev'ing Mkt. Economies	297	379	826	82	447	5.0	16.9
Africa	-	9	9	9	-	..	-
Latin America	234	307	624	73	317	5.6	15.3
Asia	63	63	193	-	130	-	25.0
Cent. Planned Economies	477	766	1 173	289	407	9.9	8.9
Asia	..	..	..	..	..	..	..
Eastern Europe	127	316	473	189	157	20.0	8.4
U.S.S.R.	350	450	700	100	250	5.2	9.2

(a) Including chemi-mechanical woodpulp

Significant developments are planned in Latin America and in the developing countries of Asia. In Japan, the intention is to reduce the level of capacity.

Chemical woodpulp for papermaking

About 65 per cent of total papermaking pulp in 1976 was chemical woodpulp, a proportion which is not expected to change significantly within the next five years. Between 1976 and 1981, capacity is likely to expand from 88.3 to 103.6 million tons or by a total of 15.3 million tons. The increase, although greater than actually added between 1971 and 1976, is much reduced compared to what was envisaged in the 1975-80 survey (16.6 million tons) and in the one for 1974-79 (19.3 million tons).

Table 6 - Increases in Capacity of Chemical Woodpulp
for Papermaking, 1971-81

	Capacity			Total Increase		Annual Average Increase	
	1971	1976	1981 '000 metric tons	1971-76	1976-81	1971-76	1976-81
						per cent --	
World Total	74 181	88 334	103 643	14 153	15 309	3.6	3.2
Dev'ed Mkt. Economies	64 536	74 517	83 747	9 981	9 230	2.9	2.4
Northern America	41 404	47 172	53 014	5 768	5 842	2.6	2.4
Japan	5 965	7 788	8 579	1 823	791	5.5	2.0
Western Europe	16 403	18 420	20 873	2 017	2 453	2.3	2.5
Oceania	464	867	872	403	5	13.3	0.1
Others	300	270	409	- 30	139	- 2.1	8.7
Dev'ing Mkt. Economies	1 962	3 947	7 406	1 985	3 459	15.0	13.4
Africa	200	285	431	85	146	7.3	8.6
Latin America	1 500	2 993	5 897	1 493	2 904	14.8	14.5
Asia	262	669	1 078	407	409	21.0	10.0
Cent. Planned Economies	7 683	9 870	12 490	2 187	2 620	5.1	4.8
Asia	872	1 400	1 793	528	393	9.9	5.1
Eastern Europe	1 811	2 170	2 897	359	727	3.7	6.0
U.S.S.R.	5 000	6 300	7 800	1 300	1 500	4.7	4.4

In last year's survey, it was noted that sulphite pulp capacity had ceased to expand, and a marginal decline was in evidence. The closure of such mills continues to be announced, due to the cost of pollution controls, etc., and the trend has been confirmed. The reduction in capacity is most marked in the Nordic countries and United States, where in total about 3/4 million tons will have been removed from capacity in the five years to 1981. In spite of mill closures in these countries, some expansions are being planned in a few countries, notably Austria, France, Yugoslavia and Canada.

ii) Other fibre pulp

Between 1976 and 1981, it is anticipated that the capacity of other fibre pulp for papermaking, excluding waste paper, will increase from 9.7 to 11.8 million tons, or by 2.1 million tons equivalent to an annual rate of 4.1 per cent. Although this is not such a large amount as was envisaged in the last survey it remains substantial. Northern American capacity was reduced between 1971 and 1976 to exclude pulp which was used for non-papermaking purposes.

Table 7 -- Increases in Capacity of Other Fibre Pulp
for Papermaking, 1971-81

	Capacity			Total Increase		Annual Average Increase	
	1971	1976	1981	1971-76	1976-81	1971-76	1976-81
	000 metric tons					per cent	
World Total	7 253	9 677	11 824	2 424	2 147	5.9	4.1
Dev'ed Mkt. Economies	2 242	1 751	1 768	- 491	17	- 4.9	0.2
Northern America	1 000	656	695	- 344	39	- 8.1	1.2
Japan	6	4	4	- 2	-	- 7.7	-
Western Europe	1 203	982	961	- 221	- 21	- 3.9	- 0.4
Oceania	3	1	-	- 2	- 1	- 20.0	-
Others	30	108	108	78	-	29.0	-
Dev'ing Mkt. Economies	1 703	2 424	3 624	721	1 200	7.3	8.4
Africa	130	189	202	59	13	7.8	1.3
Latin America	615	934	1 575	319	641	8.7	11.0
Asia	958	1 301	1 847	343	546	6.3	7.3
Cent. Planned Economies	3 308	5 502	6 432	2 194	930	10.7	3.2
Asia	2 668	4 838	5 638	2 170	800	12.6	3.1
Eastern Europe	240	239	244	- 1	5	- 0.1	0.4
U.S.S.R.	400	425	550	25	125	1.2	5.3

The continuing reduction in capacity in Western Europe will be noted, due to the closure of some straw pulping facilities in the Netherlands. Rather more than half of the additional capacity will occur in developing countries. Bagasse will be the raw material for much of the increase, with the main additions occurring in Mexico and Peru, but some 250 000 tons of bamboo pulp is also likely to come on stream.

iii) Dissolving pulp

The capacity of dissolving pulp is forecast to grow at an accelerated rate, having been almost static since 1971. Some 600 000 tons of additional capacity are planned, mainly in Eastern Europe and U.S.S.R.

b) Paper and Paperboard

The total paper and paperboard capacity in the world is expected to increase from 179.8 million tons in 1976 to 207.9 million tons in 1981 at an annual average rate of 2.9 per cent. The volume of additional capacity, 28.1 million tons, is some 10 per cent less than that given in last year's survey (31.1 million tons) and about 9 million tons below the level indicated in the 1974-79 survey. It is obvious that uncertain market conditions, severe inflation in many countries, high interest rates and other factors have caused hesitation, re-appraisal and the deferralment of some plans. Attention should also be drawn to a re-assessment of U.S. capacity, involving a downward revision of 1.1 million tons in the figures for 1976, which is reflected in this survey.

Table 8 - Increases in Capacity of Total Paper and Paperboard, 1971-81

	Capacity			Total Increase		Annual Average Increase	
	1971	1976	1981	1971-76	1976-81	1971-76	1976-81
	'000 metric tons					per cent	
World Total	146 326	179 793	207 870	33 467	28 077	4.2	2.9
Dev'ed Mkt. Economies	121 653	144 005	162 210	22 352	18 205	3.4	2.4
Northern America	64 424	72 289	79 278	7 865	6 989	2.3	1.9
Japan	14 909	20 394	23 653	5 485	3 259	6.5	3.0
Western Europe	39 866	48 076	55 244	8 210	7 168	3.8	2.8
Oceania	1 721	2 125	2 686	404	561	4.3	4.8
Others	733	1 121	1 349	388	228	8.9	3.8
Dev'ing Mkt. Economies	7 493	12 133	17 214	4 640	5 081	10.1	7.2
Africa	386	728	824	342	96	13.5	2.5
Latin America	4 670	7 251	10 547	2 581	3 296	9.2	7.8
Asia	2 437	4 154	5 843	1 717	1 689	11.3	7.1
Cent. Planned Economies	17 180	23 655	28 446	6 475	4 791	6.6	3.8
Asia	4 942	8 193	9 509	3 251	1 316	10.6	3.0
Eastern Europe	4 238	5 462	6 437	1 224	975	5.2	3.3
U.S.S.R.	8 000	10 000	12 500	2 000	2 500	4.6	4.6

The pace of growth is more rapid in the developing countries than in the developed, with the result that the proportion of the world's capacity installed in the developing countries, which was 4.5 per cent in 1966 and 6.7 per cent in 1976, can be expected to reach 8.3 per cent by 1981. In terms of volume, the increase in the centrally planned economies will almost equal that of the developing countries and these two combined will account for about one half of the 18.2 million tons of paper and paperboard likely to be added in the developed countries. With about half of world capacity located in Northern America, it is interesting to note that only one quarter of additional capacity will come from that region.

Newsprint

The rate of growth of world newsprint capacity in the next five years, 3.4 per cent, shows no change as compared to last year's survey. Relatively low rates of growth are anticipated in those areas with the largest capacity, this is particularly true for Northern America, whereas rapid increases are likely in the developing countries. The rates of growth in the centrally planned economies are below the world average.

Continuing attention is being paid to the feasibility of marketing newsprint in lower grammages. The trend from the former standard of 52 g/m² to 48.8 g/m² has been noted in earlier surveys, and its attendant effect on the level of capacity. The restrictions on the availability of raw materials, the desire to utilise resources to best advantage, the increasing cost of energy, as well as environmental considerations, are all adding pressure for further reductions. It is possible, therefore, that over the next few years 45 g/m² newsprint may become more common than it is at present, with the same surface area being obtained from a smaller volume.

Table 9 - Increases in Capacity of Newsprint, 1971-81

	Capacity					Annual Average	
	Capacity			Total Increase		Increase	
	1971	1976	1981	1971-76	1976-81	1971-76	1976-81
	'000 metric tons						
World Total	23 869	25 418	30 073	1 549	4 655	1.3	3.4
Dev'ed Mkt. Economies	20 867	21 769	24 966	902	3 197	0.9	2.8
Northern America	12 265	12 601	13 667	336	1 066	0.5	1.6
Japan	2 009	2 438	3 137	429	699	3.9	5.2
Western Europe	6 017	5 970	7 075	47	1 105	0.2	3.5
Oceania	398	533	713	135	180	6.0	6.0
Others	178	227	374	49	147	5.0	10.5
Dev'ing Mkt. Economies	583	848	1 880	265	1 032	7.8	17.3
Africa	12	13	27	1	14	1.6	15.7
Latin America	308	364	1 060	56	696	3.4	24.0
Asia	263	471	793	208	322	12.4	11.0
Cent. Planned Economies	2 419	2 801	3 227	382	426	3.0	2.9
Asia	724	860	1 010	136	150	3.5	3.3
Eastern Europe	345	391	417	46	26	2.5	1.3
U.S.S.R.	1 350	1 550	1 800	200	250	2.8	3.0

Other Printing and Writing Paper

The future growth in the capacity of other printing and writing paper will be particularly marked in the developing countries, where about 1 million tons of new capacity is expected to come on stream between 1976 and 1981. Although the rate of expansion will be slightly less than in the recent past, 6.2 compared to 7.1 per cent, the volume involved will be greater. Only in Japan does the rate of growth and the volume approximate the increases of the developing countries.

Table 10 - Increases in Capacity of Other Printing and Writing Paper, 1971-81

	Capacity					Annual Average	
	Capacity			Total Increase		Increase	
	1971	1976	1981	1971-76	1976-81	1971-76	1976-81
	'000 metric tons						
World Total	31 639	39 512	46 423	7 873	6 911	4.5	3.3
Dev'ed Mkt. Economies	26 522	32 114	37 102	5 592	4 988	3.9	2.9
Northern America	12 096	14 080	15 448	1 984	1 368	3.1	1.9
Japan	2 988	3 616	4 877	628	1 261	3.9	6.2
Western Europe	11 101	13 975	16 349	2 874	2 374	4.7	3.2
Oceania	222	263	279	41	16	3.5	1.2
Others	115	180	149	65	31	9.4	3.8
Dev'ing Mkt. Economies	2 060	2 897	3 915	837	1 018	7.1	6.2
Africa	115	216	240	101	24	13.4	2.1
Latin America	1 013	1 376	1 886	363	510	6.3	6.5
Asia	932	1 305	1 789	373	484	7.0	6.5
Cent. Planned Economies	3 057	4 501	5 406	1 444	905	8.0	3.7
Asia	1 062	2 198	2 605	1 136	407	15.7	3.5
Eastern Europe	895	1 003	1 251	108	248	2.3	4.5
U.S.S.R.	1 100	1 300	1 550	200	250	3.4	3.6

Ratio of Paper Pulp to Paper and Paperboard Capacity

For over ten years, the proportion of pulp manufacturing capacity to paper and board capacity has been falling as more paper than pulp capacity has been installed. This decline has now almost been stopped and looks like reaching its lowest point in 1977. Thereafter there should be a slow then a more rapid rise to 78.4 per cent by 1981. Even so, this is below 81.8 per cent achieved in 1965. The past and future ratios of pulp to paper and board capacities are as follows:

	<u>Pulp/Paper Ratio</u> <u>per cent</u>
1965	81.8
1970	80.5
1975	77.8
1976	77.6
1977 (a)	77.3
1978 (a)	77.4
1979 (a)	77.5
1980 (a)	78.0
1981 (a)	78.4

(a) as forecast in 1976-81 survey

Comparison with earlier surveys

The current survey for the period 1976-81 is less optimistic than the last two surveys, including the revised one for 1974-79 based on amendments by nine countries, i.e. Canada, U.S.A., Brazil, Finland, France, Federal Republic of Germany, Sweden, U.K. and Japan. The comparison with earlier surveys is illustrated in the following table.

<u>Period of Survey</u>	<u>Total Increase over period</u>	
	Total Pulp for paper- making	Total paper and paperboard
-- million metric tons --		
1969 - 74	26.1	37.5
1970 - 75	29.0	34.4
1971 - 76	24.9	27.8
1972 - 77	24.7	28.3
1973 - 78	23.6	32.4
1974 - 79 (a)	26.7	33.3
1975 - 80	25.4	31.1
1976 - 81	23.3	28.1

(a) after amendment by the nine countries referred to above

The results of the present survey, when compared to earlier ones, once again illustrate the optimism of the estimates for pulp for the final years. Actual capacity of woodpulp in 1976 was 129.9 million tons which compares to the 133.7 million tons for that year envisaged in the 1971-76 survey.

Whereas the same optimism has generally been apparent in the paper and paperboard capacity figures, a contrary situation has occurred for 1976. An actual capacity of 179.8 million tons compares to the forecast for that year made five years ago of 175.2 million tons. A similar situation seems likely to arise for 1977, as can be seen in Annex 10.

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:

	<u>Survey</u> 1973-78	<u>Survey*</u> 1974-79	<u>Survey</u> 1975-80	<u>Survey</u> 1976-81
----- *000 metric tons -----				
Total woodpulp of which	21 527	24 306	22 815	21 134
Mechanical	4 004	4 773	4 075	4 348
Semi-chemical (a)	2 270	2 298	2 148	1 477
Chemical	15 253	17 235	16 592	15 309
Other fibre pulp	2 046	2 431	2 605	2 147
Total paper and paperboard of which	32 388	33 256	31 060	28 077
Newsprint	4 013	4 579	4 537	4 655
Other printing & writing	6 993	7 671	7 303	6 911
Other paper and paperboard	21 382	21 008	19 220	16 511
- wrapping & packaging	..	..	15 493	13 161

(a) Including chemi-groundwood

* After amendment by nine countries

Rapport
concernant
l'enquête FAO
sur
la capacité mondiale de production de pâte et de papier 1976-81
par
le Secrétariat

L'enquête annuelle de la FAO sur la capacité mondiale de production de pâte et de papier est fondée, pour la plupart des pays du monde, 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 donné au sujet de leurs plans de développement au cours de l'année précédente. En conséquence, les résultats de l'enquête représentent les intentions de l'industrie au moment où elle 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, qui avaient tous été modifiés l'année dernière, n'ont subi aucun autre changement. Toutefois, grâce à l'intérêt toujours croissant que suscitent les résultats et leur utilisation, certains pays ont réorganisé leurs enquêtes nationales afin d'obtenir des données plus significatives et précises. En outre, pour certains pays en développement, on a pu obtenir de meilleurs renseignements à la suite des études approfondies consacrées aux usines existantes dans le cadre du Programme FAO/PNUD de développement des industries de la pâte et du papier. Une fois encore, la qualité des données présentées a donc été améliorée.

A titre d'innovation cette année, une liste des plans d'expansion pour les dix prochaines années a été préparée avec l'aide active du Comité consultatif FAO de la pâte et du papier et d'autres parties à l'enquête. Cette liste, qui est publiée séparément, indique la société, le produit, la capacité et l'année où devraient débuter les nombreux projets actuellement à l'étude. Le cas échéant, la capacité supplémentaire prévue, a été confrontée avec les données indiquées dans l'enquête actuelle, mais il faut noter que 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 les détails. Néanmoins, on espère que les renseignements fournis ici seront utiles à tous ceux qui sont chargés de planifier l'avenir de l'industrie.

Les principales conclusions de l'enquête de 1976-81 sont les suivantes:

- a) On prévoit que la capacité mondiale de production des pâtes pour papier passera de 140 millions de tonnes en 1976 à 163 millions de tonnes en 1981. Ces 23 millions de tonnes supplémentaires correspondent à un taux de croissance annuel de 3,1 pour cent.
- b) On prévoit que la capacité mondiale de production de papier et carton passera de 180 millions de tonnes en 1976 à 208 millions de tonnes en 1981. Ces 28 millions de tonnes supplémentaires correspondent à un taux annuel de croissance de 2,9 pour cent.

- c) Ces chiffres de 23 millions de tonnes pour les pâtes à papier et de 28 millions de tonnes pour les papiers et cartons sont comparables aux plus faibles augmentations jamais envisagées dans les sept dernières enquêtes.
- d) En Europe occidentale et en Amérique latine, la capacité de production de pâte chimique pour 1981 est inférieure au niveau prévu pour 1980 dans l'enquête de l'année dernière; il en est de même pour papier et carton en Europe occidentale et en Afrique.
- e) Sur les 15,3 millions de tonnes d'accroissement de la capacité de production de pâte chimique prévu entre 1976 et 1981, les augmentations les plus considérables se situeront en Amérique du Nord (5,8 millions de tonnes). Rien qu'au Brésil, l'industrie prévoit une augmentation de 2,5 millions de tonnes, d'ailleurs inférieure aux 3,1 millions de tonnes indiqués dans l'enquête de l'année dernière pour la période quinquennale 1975-80.
- f) La capacité de production de pâte de feuillus au sulfate blanchie devrait augmenter de 4,3 millions de tonnes, passant de 15,5 millions de tonnes en 1976 à 19,8 millions de tonnes en 1981. Cette augmentation est à mettre en regard des 4,7 millions de tonnes envisagés dans l'enquête pour 1975-80.
- g) Les pâtes d'autres fibres continuent à jouer un rôle important comme source locale de matière première pour la fabrication du papier dans les pays en développement.
- h) On prévoit une hausse rapide de la capacité de production de papier et carton dans les pays en développement: elle serait d'environ 40 pour cent, soit 5,1 millions de tonnes. On prévoit une expansion à peu près du même ordre dans les pays à économie centralement planifiée. Les augmentations de la capacité de production dans les pays développés, tout en se traduisant par un plus gros accroissement en volume (18,2 millions de tonnes), représenteront à peine plus de 12 pour cent.
- i) L'accroissement de la capacité de production de papiers et cartons d'emballage, soit 13,2 millions de tonnes, est inférieur au chiffre de 15,5 millions de tonnes indiqué l'an dernier mais représente encore environ la moitié de l'augmentation totale des papiers et cartons.
- j) Le fléchissement du rapport entre la capacité de production de pâte et celle de papiers et cartons devrait être enrayer d'ici 1977 et il devrait s'ensuivre une amélioration.

Tendances par produit et par région

La capacité mondiale de production de pâte pour papiers, comme il est indiqué dans l'enquête présente, devrait passer de 139,6 millions de tonnes en 1976 à 162,9 millions de tonnes en 1981, tandis que la capacité de production de papiers et cartons devrait augmenter de 179,8 à 207,9 millions de tonnes. Le tableau 1 ci-après indique l'évolution de la capacité mondiale par grande catégorie de produits et permet aussi de constater qu'au cours de la période de 15 ans 1966-81, la capacité de production des pâtes aura augmenté d'environ 75 pour cent et celle de papiers et cartons, d'un pourcentage encore plus important. On trouvera aux annexes 1 à 6 une ventilation par régions et par grandes catégories de produits pour chacune des années de la période 1976-81.

Tableau 1 - Capacité mondiale de production de pâte, de papier et de carton, 1966-81

	Capacité totale				Taux annuel moyen d'accroissement		
	1966	1971	1976	1981	1966-71	1971-76	1976-81
	- millions de tonnes -				- - - pourcentage - - -		
Pâte de bois pour papier, total	86.3	110.6	129.9	151.1	5.1	3.3	3.1
Mécanique	23.8	27.6	31.1	35.4	3.0	2.4	2.7
Mi-chimique (a)	6.2	8.8	10.5	12.0	7.1	3.7	2.7
Chimique	56.3	74.2	88.3	103.6	5.7	3.6	3.2
Pâte d'autres fibres	6.4	7.3	9.7	11.8	2.5	5.9	4.1
Pâte à dissoudre	5.1	5.7	5.8	6.4	2.1	0.3	2.2
Papier et carton, total	113.3	146.3	179.8	207.9	5.2	4.2	2.9
Papier journal	19.9	23.9	25.4	30.1	3.8	1.3	3.4
Papier d'impression et d'écriture	22.7	31.6	39.5	46.4	6.9	4.5	3.3
Autres papiers et cartons	70.8	90.8	114.9	131.4	5.1	4.8	2.7

(a) Y compris la pâte chimico-mécanique

Un ralentissement de l'expansion de l'industrie de la pâte comme de celle du papier est prévu pour l'avenir, et il est très marqué par rapport à l'évolution effective enregistrée entre 1966 et 1971. Il faut particulièrement remarquer que ce ralentissement est plus sensible pour le papier et le carton que pour la pâte. D'une année à l'autre, le taux d'expansion de pâte, de papier et de carton ne varie que très légèrement au total pour les trois prochaines années, période au cours de laquelle les plans d'expansion sont définitivement arrêtés et souvent déjà en cours d'exécution, mais ce taux diminue très nettement, pour le papier et le carton, dès l'avant dernière année de l'enquête. Ces points sont mis en évidence dans le tableau ci-après:

Tableau 2 - Taux annuel d'accroissement de la capacité mondiale de production de pâte, de papier et de carton, 1976-81

	Accroissements annuels				
	1976-77	1977-78	1978-79	1979-80	1980-81
	- - - pourcentage - - -				
Pâte de bois pour papier, total	3.0	3.4	3.2	3.4	2.3
Mécanique	3.2	3.2	2.4	2.8	1.6
Mi-chimique (a)	4.0	2.8	2.4	2.7	1.5
Chimique	2.8	3.5	3.6	3.7	2.6
Pâte d'autres fibres	3.9	5.9	4.9	3.9	1.9
Pâte à dissoudre	0.7	3.8	2.6	2.6	1.5
Papier et carton, total	3.5	3.5	3.2	2.7	1.9
Papier journal	2.9	4.2	3.9	3.9	2.3
Papier d'impression et d'écriture	4.4	3.7	3.4	2.8	2.1
Autres papiers et cartons	3.4	3.2	2.9	2.5	1.7

(a) Y compris la pâte chimico-mécanique

a) Pâte pour papier, total

Entre 1976 et 1981, la capacité totale de production de pâte pour papier devrait augmenter de 23,3 millions de tonnes, correspondant à un taux annuel moyen de 3,1 pour cent. Sur ce total, 4,3 millions de tonnes correspondront à la pâte mécanique, 1,5 million de tonnes à la pâte mi-chimique, 15,3 millions de tonnes à la pâte chimique et 2,1 millions de tonnes aux pâtes d'autres fibres. En ce qui concerne l'ensemble de ces principales pâtes pour papier, les accroissements prévus sont inférieurs au montant indiqué pour les périodes quinquennales dans les deux dernières enquêtes; ceci est particulièrement le cas pour les pâtes mi-chimiques où l'expansion est maintenant inférieure de plus de 750 000 tonnes à celle qui était envisagée dans l'enquête de 1973/78. On ne prévoit que des accroissements annuels marginaux pour la capacité de production de pâte à dissoudre.

L'importance de l'emploi des feuillus dans la fabrication de la pâte apparaît particulièrement bien si l'on se réfère aux pâtes au sulfate blanchies auxquelles est attribué plus de la moitié de l'accroissement prévu de pâte chimique. Entre 1976 et 1981, la capacité des pâtes au sulfate blanchies augmentera de 9,4 millions de tonnes dont près de la moitié (4,4 millions de tonnes) proviendront des feuillus. La plus grande partie des accroissements sont prévus aux Etats-Unis, en Finlande, en Espagne, au Japon et au Brésil; dans ce dernier pays, ils proviendront essentiellement des plantations d'eucalyptus.

Les fluctuations de la capacité future de production de pâte marchande, d'une enquête à l'autre, reflètent l'instabilité de la demande de ce produit. Les résultats des trois dernières enquêtes ont toutefois fait présager un accroissement de 2,5 à 3 millions de tonnes sur une période de trois ans, alors que 4 millions de tonnes de capacité supplémentaire ont été effectivement installées au cours des cinq dernières années. Le rythme de l'expansion s'accélère donc légèrement. Presque tous les accroissements de la capacité de pâtes marchandes seront imputables aux pâtes au sulfate blanchies, la majorité viendra de résidus plutôt que de feuillus et la plus grande partie de la pâte de feuillus sera originaire de pays en développement, notamment du Brésil. Les détails de cette évolution sont indiqués dans l'Annexe 8 et sont illustrés à l'Annexe 11.

i) Pâte de bois

La capacité mondiale de fabrication de pâte de bois pour papier devrait augmenter au cours des cinq années 1976-81 de 21,1 millions de tonnes, soit un accroissement de près de 2 millions de tonnes par rapport à la capacité effectivement installée entre 1971 et 1976, mais une réduction de 3 millions de tonnes par rapport à l'expansion qui s'est produite entre 1966 et 1971. Le taux de croissance moyen reste presque constant par rapport au passé récent, 3,1 contre 3,3 pour cent par an, mais bien inférieur aux 5,1 pour cent de la période antérieure. Il y a d'importants changements dans la répartition de cette capacité de production ainsi qu'il ressort du Tableau 3. Le supplément de capacité de 21,1 millions de tonnes prévu entre 1976 et 1981, se ventile comme suit: plus de 13 millions de tonnes (62,8 pour cent) seront installés dans les pays développés, 4,4 millions de tonnes (20,7 pour cent) dans les pays en développement et 3,5 millions de tonnes dans les pays à économie centralement planifiée. Par rapport à l'enquête précédente, il y a eu un fléchissement du taux d'expansion, principalement dans les pays en développement, dû en partie à l'ajournement de certains plans et à la ré-évaluation de certains autres en fonction des conditions économiques, financières et commerciales. Les expansions prévues au Brésil, par exemple, ont été ramenées de 3,3 millions de tonnes entre 1975 et 1980 à 2,7 millions de tonnes entre 1976 et 1981.

On pense qu'à l'avenir le taux mondial de croissance devrait enregistrer un fléchissement marginal par rapport à 1971/76, mais avec une nette diminution dans les pays développés et les pays centralement planifiés et une forte augmentation dans les pays en développement. Les expansions bien plus faibles prévues pour le Japon, la Nouvelle-Zélande et l'Afrique du Sud expliquent en grande partie ce fléchissement. Le Brésil fournira beaucoup plus de la moitié du tonnage supplémentaire provenant des pays en développement.

Tableau 3 - Accroissement de la capacité de production totale de pâte de bois pour papier, 1971-81

	Capacité			Augmentation totale		Augmentation annuelle moyenne		
	1971	1976	1981	1971-76	1976-81	1971-76	1976-81	
	milliers de tonnes			-		- pourcentage -		
Total mondial	110 571	129 921	151 055	19 350	21 134	3.3	3.1	
Pays dév. à écon. marché	96 218	110 375	123 637	14 157	13 262	2.8	2.3	
Amérique du Nord	58 205	65 001	72 259	6 796	7 258	2.2	2.1	
Japon	9 547	11 985	13 274	2 438	1 289	4.7	2.1	
Europe occidentale	26 884	30 547	34 722	3 663	4 175	2.6	2.6	
Océanie	1 112	2 118	2 458	1 006	340	13.8	3.0	
Autres	470	724	924	254	200	9.0	5.0	
Pays en dév. à écon. marché	2 923	5 082	9 457	2 159	4 375	11.7	13.2	
Afrique	216	312	471	96	159	7.6	8.6	
Amérique latine	2 119	3 694	7 120	1 575	3 426	11.8	14.0	
Asie	588	1 076	1 866	488	790	12.8	11.6	
Pays à écon. centr. planif.	11 430	14 464	17 961	3 034	3 497	4.8	4.4	
Asie	1 567	2 219	2 816	652	597	7.2	4.9	
Europe orientale	2 613	3 395	4 295	782	900	5.4	4.8	
U.R.S.S.	7 250	8 850	10 850	1 600	2 000	4.1	4.2	

Pâte mécanique

Entre 1976 et 1981, on prévoit que la capacité de pâte mécanique augmentera de 4,3 millions de tonnes, au lieu de 3,5 millions de tonnes au cours des cinq années précédentes. Le taux annuel de croissance dépassera donc celui de la période antérieure (2,7 pour cent au lieu de 2,4 pour cent).

Tableau 4 - Accroissement de la capacité de production de pâte mécanique pour papier, 1971-81

	Capacité			Augmentation totale		Augmentation annuelle moyenne		
	1971	1976	1981	1971-76	1976-81	1971-76	1976-81	
	milliers de tonnes			-		- pourcentage -		
Total mondial	27 607	31 060	35 408	3 453	4 348	2.4	2.7	
Pays dév. à écon. marché	23 673	26 476	29 885	2 803	3 409	2.3	2.4	
Amérique du Nord	12 915	13 419	14 413	504	994	0.8	1.5	
Japon	1 485	1 874	2 451	389	577	4.8	5.5	
Europe occidentale	8 748	10 076	11 617	1 328	1 541	2.9	2.9	
Océanie	395	807	1 053	412	246	15.4	5.5	
Autres	130	300	351	170	51	18.2	3.2	
Pays en dév. à écon. marché	664	756	1 225	92	469	2.6	10.1	
Afrique	16	18	31	2	13	2.4	11.5	
Amérique latine	385	394	599	9	205	0.5	8.7	
Asie	263	344	595	81	251	5.5	11.6	
Pays à écon. centr. planif.	3 270	3 828	4 298	558	470	3.2	2.4	
Asie	695	819	1 023	124	204	3.3	4.5	
Europe orientale	675	909	925	234	16	6.1	0.3	
U.R.S.S.	1 900	2 100	2 350	200	250	2.0	2.3	

Il est intéressant de noter que le rythme rapide de l'expansion dans les pays en développement - partant à vrai dire d'un niveau relativement bas - devrait jusqu'à un certain point rendre ces pays moins tributaires des importations.

On continue à mettre en place des installations de défibrage thermo-mécanique, soit comme capacité supplémentaire soit à la place des défibreurs à meule classiques. On n'a pas déterminé avec précision le tonnage intéressé mais certaines estimations permettent de penser qu'il pourrait atteindre 4 millions de tonnes d'ici la fin de la présente décennie. La plupart des installations de défibrage thermo-mécanique se trouvent à l'heure actuelle dans les pays développés, mais ce procédé est aussi à l'étude dans les pays en développement. La vogue croissante des installations thermo-mécaniques ne se traduira pas seulement par un accroissement de la capacité de pâte mécanique mais probablement aussi par une faible augmentation de la capacité de production de pâte chimique.

Pâte de bois mi-chimique

Entre 1976 et 1981, la capacité mondiale de production de pâte chimico-mécanique et mi-chimique devrait passer de 10,5 à 12 millions de tonnes, soit une augmentation de 1,5 million de tonnes, au taux moyen annuel de 2,7 pour cent. Ce supplément de capacité est légèrement inférieur à celui qui a été mis en service au cours des cinq années antérieures.

Tableau 5 - Accroissement de la capacité de production de pâte de bois mi-chimique pour papier, 1971-81 (a)

	Capacité			Augmentation totale		Augmentation annuelle moyenne	
	1971	1976	1981	1971-76	1976-81	1971-76	1976-81
	- milliers de tonnes -			- pourcentage -			
Total mondial	8 783	10 527	12 004	1 744	1 477	3.7	2.7
Pays d'év. à écon. marché	8 009	9 382	10 005	1 373	623	3.2	1.3
Amérique du Nord	3 886	4 410	4 832	524	422	2.6	1.8
Japon	2 097	2 323	2 244	226	- 79	2.1	- 0.7
Europe occidentale	1 733	2 051	2 232	318	181	3.4	1.7
Océanie	253	444	533	191	89	11.9	3.7
Autres	40	154	164	114	10	31.0	1.3
Pays en d'év. à écon. marché	297	379	826	82	447	5.0	16.9
Afrique	-	9	9	9	-	-	-
Amérique latine	234	307	624	73	317	5.6	15.3
Asie	63	63	193	-	130	-	25.0
Pays à écon. centr. planif.	477	766	1 173	289	407	9.9	8.9
Asie	..	..	..	..	..	..	..
Europe orientale	127	316	473	189	157	20.0	8.4
U.R.S.S.	350	450	700	100	250	5.2	9.2

(a) Y compris la pâte de bois chimico-mécanique

Une évolution importante est prévue en Amérique latine et dans les pays en développement de l'Asie. Au Japon, on se propose de réduire le niveau de la capacité.

Pâte de bois chimique pour papier

En 1976, environ 65 pour cent du total de la pâte à papier provenaient de la pâte de bois chimique et l'on ne pense pas que cette proportion se modifiera considérablement au cours des cinq prochaines années. Entre 1976 et 1981, la capacité devrait passer de 88,3 à 103,6 millions de tonnes, soit une augmentation totale de 15,3 millions de tonnes. L'augmentation, bien que supérieure à celle effectivement réalisée entre 1971 et 1976, est nettement inférieure aux accroissements envisagés dans les enquêtes 1975-80 (16,6 millions de tonnes) et 1974-79 (19,3 millions de tonnes).

Tableau 6 - Accroissement de la capacité de production de pâte de bois chimique pour papier, 1971-81

	Capacité			Augmentation totale		Augmentation annuelle moyenne		
	1971	1976	1981	1971-76	1976-81	1971-76	1976-81	- pourcentage -
	milliers de tonnes							
Total mondial	74 181	88 334	103 643	14 153	15 309	3.6	3.2	
Pays d'env. à écon. marché	64 536	74 517	83 747	9 981	9 230	2.9	2.4	
Amérique du Nord	41 404	47 172	53 014	5 768	5 842	2.6	2.4	
Japon	5 965	7 788	8 579	1 823	791	5.5	2.0	
Europe occidentale	16 403	18 420	20 873	2 017	2 453	2.3	2.5	
Océanie	464	867	872	403	5	13.3	0.1	
Autres	300	270	409	- 30	139	- 2.1	8.7	
Pays en dév. à écon. marché	1 962	3 947	7 406	1 985	3 459	15.0	13.4	
Afrique	200	285	431	85	146	7.3	8.6	
Amérique latine	1 500	2 993	5 897	1 493	2 904	14.8	14.5	
Asie	262	669	1 078	407	409	21.0	10.0	
Pays à écon. centr. planif.	7 683	9 870	12 490	2 187	2 620	5.1	4.8	
Asie	872	1 400	1 793	528	393	9.9	5.1	
Europe orientale	1 811	2 170	2 897	359	727	3.7	6.0	
U.R.S.S.	5 000	6 300	7 800	1 300	1 500	4.7	4.4	

Dans la dernière enquête, il a été indiqué que l'expansion de la capacité de pâte au sulfate s'était arrêtée et qu'il se produisait maintenant un fléchissement marginal. On continue à annoncer la fermeture d'usines de ce genre à cause du coût de la dépollution, etc. et la tendance s'est confirmée. Le fléchissement de la capacité est très marqué dans les pays nordiques et aux Etats-Unis où, au total, elle diminuera d'environ 750 000 tonnes au cours des cinq années finissant en 1981. Malgré la fermeture d'usines dans ces pays, on prévoit des expansions dans quelques pays, notamment l'Autriche, la France, la Yougoslavie, le Canada.

ii) Pâte d'autres fibres

Entre 1976 et 1981, la capacité de production des pâtes d'autres fibres pour papier - à l'exclusion des vieux papiers - passera de 9,7 à 11,8 millions de tonnes soit un accroissement de 2,1 millions de tonnes équivalant à un taux annuel de 4,1 pour cent. Bien que cet accroissement ne soit pas aussi fort que ce qui avait été prévu dans la dernière enquête, il reste cependant considérable. La capacité de production de l'Amérique du Nord a été réduite de 1971 à 1976, afin d'exclure des quantités de pâte destinées à des usages non papetiers.

Tableau 7 - Accroissement de la capacité de production des pâtes d'autres fibres pour papier, 1971-81

	Capacité			Augmentation totale		Augmentation annuelle moyenne	
	1971	1976	1981	1971-76	1976-81	1971-76	1976-81
	milliers de tonnes			-		- pourcentage -	
Total mondial	7 253	9 677	11 824	2 424	2 147	5.9	4.1
Pays dév. à écon. marché	2 242	1 751	1 768	- 491	17	- 4.9	0.2
Amérique du Nord	1 000	656	695	- 344	39	- 8.1	1.2
Japon	6	4	4	- 2	-	- 7.7	-
Europe occidentale	1 203	982	961	- 221	- 21	- 3.9	- 0.4
Océanie	3	1	-	- 2	- 1	-20.0	-
Autres	30	108	108	78	-	29.0	-
Pays en dév. à écon. marché	1 703	2 424	3 624	721	1 200	7.3	8.4
Afrique	130	189	202	59	13	7.8	1.3
Amérique latine	615	934	1 575	319	641	8.7	11.0
Asie	958	1 301	1 847	343	546	6.3	7.3
Pays à écon. centr. planif.	3 308	5 502	6 432	2 194	930	10.7	3.2
Asie	2 668	4 838	5 638	2 170	800	12.6	3.1
Europe orientale	240	239	244	- 1	5	- 0.1	0.4
U.R.S.S.	400	425	550	25	125	1.2	5.3

La capacité de production en Europe occidentale continue à flétrir à cause de la fermeture de certaines installations de défibrage des pailles aux Pays-Bas. L'accroissement de la capacité surviendra pour plus de la moitié dans les pays en développement. Il portera en grande partie sur la bagasse (expansions principales au Mexique et au Pérou) mais, en outre, une capacité d'environ 250 000 tonnes de pâte de bambou devrait également entrer en service.

iii) Pâte à dissoudre

On prévoit que la capacité de production de pâte à dissoudre, qui est restée presque stationnaire depuis 1971, augmentera à un taux accéléré. On prévoit une capacité supplémentaire d'environ 600 000 tonnes, principalement en Europe orientale et en U.R.S.S.

b) Papier et carton

La capacité mondiale de production de papier et carton devrait passer de 179,8 millions de tonnes en 1976 à 207,9 millions de tonnes en 1981, soit un taux moyen annuel d'augmentation de 2,9 pour cent. Le volume de capacité supplémentaire, 28,1 millions de tonnes, est inférieur d'environ 10 pour cent au chiffre prévu dans l'enquête de l'année dernière (31,1 millions de tonnes) et d'environ 9 millions de tonnes au niveau indiqué dans l'enquête 1974-79. Il est évident que l'incertitude des marchés, la sérieuse inflation dans de nombreux pays, les taux élevés d'intérêts et d'autres facteurs ont suscité des flottements, des ré-évaluations et des ajournements de certains plans. Il convient également de noter la ré-évaluation de la capacité des Etats-Unis dont il est fait état dans cette enquête: elle comporte une révision en baisse de 1,1 million de tonnes des chiffres pour 1976.

Tableau 8 - Accroissement de la capacité de production totale de papier et carton, 1971-81

	Capacité			Augmentation totale		Augmentation annuelle moyenne	
	1971	1976	1981	1971-76	1976-81	1971-76	1976-81
	milliers de tonnes			-- pourcentage --			
Total mondial	146 326	179 793	207 870	33 467	28 077	4.2	2.9
Pays dév. à écon. marché	121 653	144 005	162 210	22 352	18 205	3.4	2.4
Amérique du Nord	64 424	72 289	79 278	7 865	6 989	2.3	1.9
Japon	14 909	20 394	23 653	5 485	3 259	6.5	3.0
Europe occidentale	39 866	48 076	55 244	8 210	7 168	3.8	2.8
Océanie	1 721	2 125	2 686	404	561	4.3	4.8
Autres	733	1 121	1 349	388	228	8.9	3.8
Pays en dév. à écon. marché	7 493	12 133	17 214	4 640	5 081	10.1	7.2
Afrique	386	728	824	342	96	13.5	2.5
Amérique latine	4 670	7 251	10 547	2 581	3 296	9.2	7.8
Asie	2 437	4 154	5 843	1 717	1 689	11.3	7.1
Pays à écon. centr. planif.	17 180	23 655	28 446	6 475	4 791	6.6	3.8
Asie	4 942	8 193	9 509	3 251	1 316	10.6	3.0
Europe orientale	4 238	5 462	6 437	1 224	975	5.2	3.3
U.R.S.S.	8 000	10 000	12 500	2 000	2 500	4.6	4.6

Le rythme de croissance est plus rapide dans les pays en développement que dans les pays développés, ce qui entraîne une hausse du pourcentage de la capacité mondiale installée dans les pays en développement, qui s'élevait à 4,5 pour cent en 1966 et à 6,7 pour cent en 1976 et devrait atteindre 8,3 pour cent d'ici 1981. L'augmentation du tonnage sera à peu près la même dans les pays à économie centralement planifiée que dans les pays en développement et les deux accroissements pris ensemble correspondront à la moitié à peu près de la capacité supplémentaire de papiers et cartons prévue dans les pays développés, soit 18,2 millions de tonnes. La moitié environ de la capacité mondiale étant implantée aux Etats-Unis, il est intéressant de noter qu'un quart seulement de la capacité supplémentaire provient de cette région.

Papier journal

Le taux de croissance de la capacité mondiale de production de papier journal, 3,4 pour cent, pour les cinq prochaines années, ne fait apparaître aucun changement par rapport à l'enquête de l'année dernière. Des taux de croissance relativement faibles sont prévus dans les régions qui ont la plus forte capacité et notamment en Amérique du Nord, alors qu'on juge probables de rapides augmentations dans les pays en développement. Les taux de croissance dans les pays à économie centralement planifiée sont inférieurs à la moyenne mondiale.

On continue à étudier la possibilité de commercialiser du papier journal de grammage plus faible. On a remarqué dans les enquêtes antérieures que le grammage précédemment fixé à 52 g/m² avait eu tendance à s'abaisser à 48,8 g/m² et que ceci s'était répercuté sur le niveau de la capacité. Les disponibilités limitées de matières premières, le désir d'utiliser les ressources de la manière la plus profitable, les coûts croissants de l'énergie et le respect de l'environnement sont des facteurs qui font tous pression pour imposer de nouvelles réductions. Il est donc possible que les cinq prochaines années voient se répandre l'usage du papier journal de 45 g/m² offrant une même surface pour un volume inférieur.

Tableau 9 - Accroissement de la capacité de production de papier

	journal, 1971-81			Augmentation totale		Augmentation annuelle moyenne	
	Capacité			1971-76	1976-81	1971-76	1976-81
	1971	1976	1981	milliers de tonnes	milliers de tonnes	pourcentage	pourcentage
Total mondial	23 869	25 418	30 073	1 549	4 655	1.3	3.4
Pays dév. à écon. marché	20 867	21 769	24 966	902	3 197	0.9	2.8
Amérique du Nord	12 265	12 601	13 667	336	1 066	0.5	1.6
Japon	2 009	2 438	3 137	429	699	3.9	5.2
Europe occidentale	6 017	5 970	7 075	- 47	1 105	- 0.2	3.5
Océanie	398	533	713	135	180	6.0	6.0
Autres	178	227	374	49	147	5.0	10.5
Pays en dév. à écon. marché	583	848	1 880	265	1 032	7.8	17.3
Afrique	12	13	27	1	14	1.6	15.7
Amérique latine	308	364	1 060	56	696	3.4	24.0
Asie	263	471	793	208	322	12.4	11.0
Pays à écon. centr. planif.	2 419	2 801	3 227	382	426	3.0	2.9
Asie	724	860	1 010	136	150	3.5	3.3
Europe orientale	345	391	417	46	26	2.5	1.3
U.R.S.S.	1 350	1 550	1 800	200	250	2.8	3.0

Autres papiers d'impression et d'écriture

L'expansion future de la capacité de production des autres papiers d'impression et d'écriture sera particulièrement marquée dans les pays en développement où une capacité supplémentaire d'environ un million de tonnes devrait entrer en service entre 1976 et 1981. Bien que le taux d'accroissement doive être légèrement inférieur à celui des dernières années, 6,2 pour cent au lieu de 7,1 pour cent, le gain de tonnage sera plus important. Le Japon est le seul autre pays où le taux d'accroissement et le gain de tonnage se comparent à ceux des pays en développement.

Tableau 10 - Accroissement de la capacité de production d'autres papiers d'impression et d'écriture, 1971-81

	Capacité			Augmentation totale		Augmentation annuelle moyenne	
	1971	1976	1981	1971-76	1976-81	1971-76	1976-81
	milliers de tonnes			pourcentage		pourcentage	
Total mondial	31 639	39 512	46 423	7 873	6 911	4.5	3.3
Pays dév. à écon. marché	26 522	32 114	37 102	5 592	4 988	3.9	2.9
Amérique du Nord	12 096	14 080	15 448	1 984	1 368	3.1	1.9
Japon	2 988	3 616	4 877	628	1 261	3.9	6.2
Europe occidentale	11 101	13 975	16 349	2 874	2 374	4.7	3.2
Océanie	222	263	279	41	16	3.5	1.2
Autres	115	180	149	65	- 31	9.4	- 3.8
Pays en dév. à écon. marché	2 060	2 897	3 915	837	1 018	7.1	6.2
Afrique	115	216	240	101	24	13.4	2.1
Amérique latine	1 013	1 376	1 886	363	510	6.3	6.5
Asie	932	1 305	1 789	373	484	7.0	6.5
Pays à écon. centr. planif.	3 057	4 501	5 406	1 444	905	8.0	3.7
Asie	1 062	2 198	2 605	1 136	407	15.7	3.5
Europe orientale	895	1 003	1 251	108	248	2.3	4.5
U.R.S.S.	1 100	1 300	1 550	200	250	3.4	3.6

Rapport entre la capacité de production de pâte et la capacité de production de papier et carton

Pendant plus de dix ans, le rapport entre la capacité de production de pâte et celle de papier et carton a fléchi car l'expansion de la capacité de production du papier a été plus rapide que celle de la pâte. A l'heure actuelle, ce fléchissement est presque arrêté et, après un minimum atteint en 1977, il devrait y avoir un redressement, d'abord lent puis plus rapide, qui permettrait d'atteindre 78,4 pour cent d'ici 1981. Ce niveau restera encore inférieur à celui de 81,8 pour cent atteint en 1965. L'évolution du rapport pâte/papier et carton au cours des années passées et futures est la suivante:

	<u>Pâte/papier en pourcentage</u>
1965	81.8
1970	80.5
1975	77.8
1976	77.6
1977 (a)	77.3
1978 (a)	77.4
1979 (a)	77.5
1980 (a)	78.0
1981 (a)	78.4

(a) Selon les prévisions de l'enquête 1976-81

Comparaison avec les enquêtes précédentes

L'enquête actuelle pour la période 1976-81 est moins optimiste que les deux autres enquêtes précédentes, dont l'une est l'enquête de 1974-79 révisée en fonction des amendements présentés par neuf pays, notamment le Canada, les Etats-Unis, le Brésil, la Finlande, la France, la République fédérale d'Allemagne, la Suède, le Royaume-Uni et le Japon. La comparaison avec les enquêtes précédentes est fournie dans le tableau ci-après.

<u>Période couverte par l'enquête</u>	<u>Augmentation totale pendant la période couverte</u>	
	<u>Pâte pour papier, total</u>	<u>Papier et carton, total</u>
	----- millions de tonnes -----	
1969-74	26.1	37.5
1970-75	29.0	34.4
1971-76	24.9	27.8
1972-77	24.7	28.3
1973-78	23.6	32.4
1974-79 (a)	26.7	33.3
1975-80	25.4	31.1
1976-81	23.3	28.1

(a) à la suite des amendements présentés par les neuf pays énumérés ci-dessus

Les résultats de l'enquête actuelle, comparés à ceux des enquêtes précédentes, démontrent une fois encore combien les estimations de la capacité de pâte pour les dernières années étaient optimistes. La capacité effective de production de pâte à papier en 1976 s'est élevée à 129,9 millions de tonnes au lieu des 133,7 millions de tonnes envisagées pour la même année dans l'enquête 1971-76.

Alors que les chiffres concernant la capacité de papier et carton sont marqués du même optimisme, il s'est produit en 1976 une situation inverse. Une capacité effective de 179,8 millions de tonnes a été enregistrée alors que 175,2 millions de tonnes avaient été prévues pour cette même année, cinq ans auparavant. Ainsi qu'on pourra le voir à l'Annexe 10, il semble qu'une situation analogue pourrait se produire en 1977.

Pour les grandes catégories de pâte, de papier et de carton, les accroissements de capacité prévus au cours des périodes couvertes par les quatre dernières enquêtes se chiffrent comme suit:

	<u>Enquête</u> 1973-78	<u>Enquête*</u> 1974-79	<u>Enquête</u> 1975-80	<u>Enquête</u> 1976-81
- - - - - milliers de tonnes - - - - -				
Pâte de bois dont:	21 527	24 306	22 815	21 134
Mécanique	4 004	4 773	4 075	4 348
Mi-chimique (a)	2 270	2 298	2 148	1 477
Chimique	15 253	17 235	16 592	15 309
Pâte d'autres fibres	2 046	2 431	2 605	2 147
Papier et carton, total dont:	32 388	33 256	31 060	28 077
Papier journal	4 013	4 579	4 537	4 655
Autres papiers d'impression et d'écriture	6 993	7 671	7 303	6 911
Autres papiers et cartons	21 382	21 008	19 220	16 511
- papier d'emballage	...	...	15 493	13 161

(a) Y compris la pâte chimico-mécanique

* A la suite des amendements présentés par neuf pays

Informe
de la
Secretaría de la FAO sobre
la Encuesta acerca de la Capacidad Mundial
de Producción de Pasta y Papel 1975-80

Los estudios anuales de la FAO sobre capacidades mundiales de pasta y papel se basan en cifras recibidas a principios de año de parte de corresponsales en la mayoría de los países del mundo y en estimaciones de la Secretaría con respecto a los demás países. En gran parte, los datos son suministrados por las asociaciones nacionales de comerciantes en pasta y papel y se basan en informaciones proporcionadas por sus socios durante al año precedente acerca de sus planes de desarrollo futuro. Por tanto, los resultados reflejan las intenciones de los industriales en el momento de realizarse los estudios, pero condiciones económicas, financieras y de mercado posteriores pueden influir en ellas significativamente.

Ni el alcance, ni el contenido, ni la presentación del estudio, enmendados totalmente al año pasado, han sufrido algún cambio ulterior, pero dados el interés siempre creciente demostrado por los resultados y el uso que se ha hecho de ellos, varios países han reestructurado sus propios estudios para obtener datos más útiles y exactos. Además, con respecto a algunos países en desarrollo, se ha obtenido información mejor gracias a investigaciones detalladas sobre las instalaciones manufactureras existentes realizadas en virtud del programa FAO/PNUD de Desarrollo de las Industrias de la Pasta y el Papel. Por lo tanto, una vez más se ha mejorado la calidad de los datos ofrecidos.

Como novedad, este año con la ayuda activa del Comité Asesor de la FAO sobre la Pasta y el Papel y de otros participantes en el estudio se preparó una lista de planes de ampliación que abarca los próximos diez años. En esta lista, que se publica por separado, se identifican: la compañía, el producto, la capacidad y el año de la puesta en marcha prevista de muchos proyectos que en el presente están en consideración. Cuando era procedente, se cotejó la capacidad adicional prevista con los datos que aparecen en el presente estudio, pero hay que observar que esta lista no es exhaustiva ya que pueden producirse aumentos significativos de capacidad, por mejora de máquinas, planes confidenciales, etc., cuyos detalles no están disponibles. No obstante lo dicho, se espera que la información ofrecida ahora será útil a todos los encargados de la planificación del futuro de la industria.

Los principales resultados del estudio de las capacidades de pasta y papel en 1976-81 son que:

- a) la capacidad mundial de producción de pasta para papel se prevé aumentará, de 140 millones de toneladas en 1976 a 163 millones de toneladas en 1981. Este aumento de 23 millones de toneladas representa una tasa de crecimiento anual de 3,1 por ciento.
- b) la capacidad mundial de papel y cartón se prevé aumentará, de 180 millones de toneladas en 1976 a 208 millones de toneladas en 1981. Este aumento de 28 millones de toneladas representa una tasa de crecimiento anual de 2,9 por ciento.
- c) tanto los 23 millones de toneladas más en pastas para papel y los 28 millones de toneladas más en papeles y cartones son comparables a los aumentos mínimos previstos en cualquiera de los últimos 7 estudios.

- d) en Europa occidental y en América Latina la capacidad de pasta de madera en 1981 es inferior al nivel previsto para 1980 en el estudio del año pasado, salvo Europa occidental y África en lo que respecta a papeles y cartones.
- e) de los 15,3 millones de toneladas más de pasta química de madera previstos entre 1976 y 1981, los aumentos más grandes se producirán en Norteamérica (5,8 millones de toneladas). En Brasil solamente, el aumento lo estima la industria en 2,5 millones de toneladas, cifra inferior a los 3,1 millones de toneladas que aparece en el estudio del año pasado para el período 1975 a 1980.
- f) la capacidad de pasta de latifoliadas al sulfato blanqueada probablemente registrará una ganancia no inferior a 4,3 millones de toneladas, o sea, de 15,5 millones de toneladas en 1976 a 19,8 millones de toneladas en 1981. Este es comparable al aumento de 4,7 millones de toneladas que figura en el estudio de 1975-80.
- g) otras pastas fibrosas siguen jugando un rol importante en el suministro de materias primas nacionales para la fabricación de papel en los países en desarrollo.
- h) se prevé un rápido aumento de las capacidades de papeles y cartones en los países en desarrollo, a saber, 40 por ciento más, o sea, 5,1 millones de toneladas, las que se suman a la capacidad manufacturera actual. Un aumento casi igual se prevé en países con economía centralmente planificada. Los aumentos de capacidad en países desarrollados, a pesar de ser mayores en volumen (18,2 millones de toneladas), significarán una ampliación de poco más de 12 por ciento.
- i) el aumento de capacidad de papeles y cartones de envolver y empaquetar, que asciende a 13,2 millones de toneladas, es inferior a los 15,5 registrados el año pasado, pero sigue representando alrededor de la mitad del aumento total de papeles y cartones.
- j) la disminución de la proporción entre la capacidad de fabricación de pasta y la de papel y cartón debería cesar en 1977 para aumentar enseguida.

Tendencias por productos y regiones

Las capacidades mundiales de pastas para papeles, como se señala en el presente estudio, se prevé aumentarán, de 139,6 millones de toneladas en 1976 a 162,9 millones de toneladas en 1981 y al mismo tiempo aumentarán las capacidades de papeles y cartones, de 179,8 a 207,9 millones de toneladas. En el cuadro 1, que sigue, se resume la evolución de los productos principales y también se pone de manifiesto el hecho de que, en los 15 años transcurridos entre 1966 y 1981, la capacidad de pasta habrá aumentado en alrededor de tres cuartos y la de papel y cartón en poco más. En los Anexos 1-6 aparecen cifras anuales detalladas por productos principales y regiones en 1976-81.

Cuadro 1 - Capacidades mundiales de pasta, papel y cartón, 1966-81

	Capacidad total				Aumento medio anual		
	1966	1971	1976	1981	1966-71	1971-76	1976-81
	millones de toneladas métricas				tanto por ciento		
Total de pastas de madera para papel	86,3	110,6	129,9	151,1	5,1	3,3	3,1
Mecánica	23,8	27,6	31,1	35,4	3,0	2,4	2,7
Semiquímica (a)	6,2	8,8	10,5	12,0	7,1	3,7	2,7
Química	56,3	74,2	88,3	103,6	5,7	3,6	3,2
Otras pastas fibrosas	6,4	7,3	9,7	11,8	2,5	5,9	4,1
Pasta soluble	5,1	5,7	5,8	6,4	2,1	0,3	2,2
Total de papeles y cartones	113,3	146,3	179,8	207,9	5,2	4,2	2,9
Papel para periódicos (papel prensa)	19,9	23,9	25,4	30,1	3,8	1,3	3,4
Papeles de escritura e impresión	22,7	31,6	39,5	46,4	6,9	4,5	3,3
Otros papeles y cartones	70,8	90,8	114,9	131,4	5,1	4,8	2,7

(a) Incluida la pasta mecanoquímica

Se prevé una disminución de la tasa de crecimiento, tanto de la pasta como del papel, en el futuro, sumamente notable en relación con el desarrollo efectivo de la industria entre 1966 y 1971. Las previsiones más bajas de papel y cartón, en comparación con la pasta, son particularmente dignas de observación. Año a año, hay poca variación en los próximos tres años en la tasa del crecimiento de los totales de pasta y de papeles y cartones; durante este periodo hay planes de ampliación que tienen fundamentos firmes y muchos ya se están ejecutando, pero en los dos últimos años del estudio la tasa disminuye significativamente. Estas cosas se ilustran en el cuadro que sigue.

Cuadro 2 - Tasa anual de aumento de las capacidades mundiales de pasta, papel y cartón 1976-81

	Aumento anual				
	1976-77	1977-78	1978-79	1979-80	1980-81
	--- tanto por ciento ---				
Total de pastas de madera para papel	3,0	3,4	3,2	3,4	2,3
Mecánica	3,2	3,2	2,4	2,8	1,6
Semiquímica (a)	4,0	2,8	2,4	2,7	1,5
Química	2,8	3,5	3,6	3,7	2,6
Otras pastas fibrosas	3,9	5,9	4,9	3,9	1,9
Pasta soluble	0,7	3,8	2,6	2,6	1,5
Total de papeles y cartones	3,5	3,5	3,2	2,7	1,9
Papel para periódicos (papel prensa)	2,9	4,2	3,9	3,9	2,3
Papel de escritura e impresión	4,4	3,7	3,4	2,8	2,1
Otros papeles y cartones	3,4	3,2	2,9	2,5	1,7

(a) Se incluye la pasta mecanoquímica

a) Total de pastas para papel

Entre 1976 y 1981 se prevé un aumento de 23,3 millones de toneladas en la capacidad de pastas para papel, en promedio, a razón de 3,1 por ciento al año. La pasta mecánica aumentará en 4,3 millones de toneladas, la semiquímica en 1,5 millones y la química en 15,3 millones; los restantes 2,1 millones de toneladas corresponden a otras pastas fibrosas. Con respecto a todas estas principales clases de pastas, los aumentos planificados son inferiores a las cantidades indicadas para los quinquenios correspondientes a los dos últimos estudios, particularmente tratándose de la pasta semiquímica cuyo aumento es actualmente inferior en tres cuartos de millón de toneladas al previsto en el estudio de 1973-78. Sólo se prevén aumentos anuales marginales en la capacidad de pasta soluble.

La importancia del uso de latifoliadas en la fabricación de pastas se puede ilustrar óptimamente en relación con la pasta al sulfato blanqueada ya que representa mucho más de la mitad del aumento previsto en pasta química. Entre 1976 y 1981 la capacidad en pasta al sulfato blanqueada aumentará en no menos del 9,4 millones de toneladas y aproximadamente la mitad de esta cifra (4,4 millones de toneladas) corresponderá a pasta de latifoliadas. La mayor parte del aumento tendrá lugar en Estados Unidos, Finlandia, España, Japón y Brasil; en este último país se trata principalmente de pasta de eucaliptus de plantación.

Las fluctuaciones de los niveles futuros de la capacidad en pasta comercial, de un estudio al siguiente, reflejan la volatilidad de la demanda de este producto. Los resultados de los últimos tres estudios indican un aumento previsto de $2\frac{1}{2}$ a 3 millones de toneladas en un período de tres años, en comparación con 4 millones de toneladas de mayor capacidad instalada en los últimos 5 años. El ritmo de ampliación por lo tanto se está acelerando levemente. En la práctica todo aumento de capacidad en pasta comercial se refiere a pasta blanqueada al sulfato, más de coníferas que de latifoliadas y la mayoría de la pasta de latifoliadas provendrá de países en desarrollo, particularmente Brasil. La evolución respectiva aparece en detalle en el Anexo 8 y se ilustra en el Anexo 11.

i) Pasta de madera

El volumen de aumento de la capacidad mundial de pasta de madera para papel en el quinquenio de 1976-81 se prevé será de 21,1 millones de toneladas, cifra superior en casi 2 millones de toneladas a la instalada efectivamente entre 1971 y 1976, pero inferior en 3 millones de toneladas al aumento que hubo entre 1966 y 1971. La tasa media de crecimiento es casi constante comparada con el pasado reciente, 3,1 contra 3,3 por ciento al año, pero muy inferior al 5,1 por ciento del período anterior. Hay algunos cambios significativos en la ubicación de la capacidad, como puede observarse en el Cuadro 3, página 40.

De los 21,1 millones de toneladas de nueva capacidad entre 1976 y 1981, más de 13 millones de toneladas (62,8 por ciento) se instalarán en los países desarrollados del mundo, 4,4 millones de toneladas (20,7 por ciento) en los países en desarrollo y 3,5 millones de toneladas en los países con economías centralmente planificadas. En comparación con el estudio del año pasado, ha habido una desaceleración de la tasa de ampliación, principalmente en los países en desarrollo. Esto se debe en parte a la postergación de algunos planes y a la reapreciación de otros, en vista de las condiciones económica financieras y de mercado. Los aumentos planificados en Brasil, por ejemplo, se han reducido, de 3,3 millones de toneladas entre 1975 y 1980 a 2,7 millones de toneladas entre 1976 y 1981.

La tasa mundial de crecimiento se prevé registrará una disminución marginal en el futuro, con una disminución notable en los países desarrollados y en los centralmente planificados y un aumento significativo en los países en desarrollo, en comparación con 1971-76. La ampliación muy reducida planificada en Japón, Nueva Zelandia y Sudáfrica explica en su mayor parte la disminución. En términos de volumen, Brasil aportará más de la mitad del aumento de la oferta proveniente de los países en desarrollo.

Cuadro 3 - Aumento de las capacidades totales de pasta de madera para papel, 1971-81

	Capacidad			Aumento total		Aumento medio anual	
	1971	1976	1981	1971-76	1976-81	1971-76 tanto por ciento	1976-81 tanto por ciento
	--- miles de toneladas			métricas			
Total mundial	110 571	129 921	151 055	19 350	21 134	3,3	3,1
Economías de mercado desarrolladas	96 218	110 375	123 637	14 157	13 262	2,8	2,3
Norteamérica	58 205	65 001	72 259	6 796	7 258	2,2	2,1
Japón	9 547	11 985	13 274	2 438	1 289	4,7	2,1
Europa occidental	26 884	30 547	34 722	3 663	4 175	2,6	2,6
Oceanía	1 112	2 118	2 458	1 006	340	13,8	3,0
Otros	470	724	924	254	200	9,0	5,0
Economías de mercado en desarrollo	2 923	5 082	9 457	2 159	4 375	11,7	13,2
África	216	312	471	96	159	7,6	8,6
América Latina	2 119	3 694	7 120	1 575	3 426	11,8	14,0
Asia	588	1 076	1 866	488	790	12,8	11,6
Economías centralmente planificadas	11 430	14 464	17 961	3 034	3 497	4,8	4,4
Asia	1 567	2 219	2 816	652	597	7,2	4,9
Europa oriental	2 613	3 395	4 295	782	900	5,4	4,8
U.R.S.S.	7 250	8 850	10 850	1 600	2 000	4,1	4,2

Pasta mecánica

Se prevé que entre 1976 y 1981 la capacidad de pasta mecánica aumentará en 4,3 millones de toneladas, en comparación con 3,5 millones de toneladas en el quinquenio anterior. La tasa anual de crecimiento por lo tanto será superior: 2,7 por ciento en comparación con 2,4 por ciento.

Cuadro 4 - Aumento de las capacidades de pasta mecánica para papel, 1971-1981

	Capacidad			Aumento total		Aumento medio anual	
	1971	1976	1981	1971-76	1976-81	1971-76 tanto por ciento	1976-81 tanto por ciento
	--- miles de toneladas			métricas			
Total mundial	27 607	31 060	35 408	3 453	4 348	2,4	2,7
Economías de mercado desarrolladas	23 673	26 476	29 885	2 803	3 409	2,3	2,4
Norteamérica	12 915	13 419	14 413	504	994	0,8	1,5
Japón	1 485	1 874	2 451	389	577	4,8	5,5
Europa occidental	8 748	10 076	11 617	1 328	1 541	2,9	2,9
Oceanía	395	807	1 053	412	246	15,4	5,5
Otros	130	300	351	170	51	18,2	3,2
Economías de mercado en desarrollo	664	756	1 225	92	469	2,6	10,1
África	16	18	31	2	13	2,4	11,5
América Latina	385	394	599	9	205	0,5	8,7
Asia	263	344	595	81	251	5,5	11,6
Economías centralmente planificadas	3 270	3 828	4 298	558	470	3,2	2,4
Asia	695	819	1 023	124	204	3,3	4,5
Europa oriental	675	909	925	234	16	6,1	0,3
U.R.S.S.	1 900	2 100	2 350	200	250	2,0	2,3

Es interesante observar el rápido ritmo de expansión en los países en desarrollo, si bien a partir de una base relativamente baja, lo que contribuirá en parte a aminorar su dependencia de las importaciones.

La instalación de fábricas de pasta termomecánicas continúa, ya sea como capacidad adicional o como reemplazo de los molinos tradicionales de piedra. El tonelaje no se ha identificado exactamente, pero algunas estimaciones sugieren que podrá ser no inferior a 4 millones de toneladas a fines del presente decenio. A pesar de que la mayoría de las fábricas termomecánicas de pasta actualmente se encuentran en países desarrollados, hay planes para su uso en países en desarrollo. El grado en que las pastas termomecánicas se ganen el favor del público se reflejará, no sólo en el crecimiento de la capacidad en pasta mecánica, sino probablemente también en un aumento menor de la capacidad en pasta química.

Pasta semiquímica

Entre 1976 y 1981 la capacidad mundial de pasta mecanoquímica y semiquímica se prevé aumentará, de 10,5 a 12,0 millones de toneladas, aumento de 1,5 millones de toneladas, a una tasa media anual de 2,7 por ciento. Este volumen es algo inferior al que entró en producción en los últimos cinco años.

Cuadro 5 - Aumentos de la capacidad de pastas semiquímicas (a) para papel, 1971-81

	Capacidad			Aumento total		Aumento medio anual	
	1971	1976	1981	1971-76	1976-81	1971-76	1976-81
	- - - miles de toneladas - - -			métricas - - -		tanto por ciento	
Total mundial	8 783	10 527	12 004	1 744	1 477	3,7	2,7
Economías de mercado desarrolladas	8 009	9 382	10 005	1 373	623	3,2	1,3
Norteamérica	3 886	4 410	4 832	524	422	2,6	1,8
Japón	2 097	2 323	2 244	226	- 79	2,1	- 0,7
Europa occidental	1 733	2 051	2 232	318	181	3,4	1,7
Oceanía	253	444	533	191	89	11,9	3,7
Otros	40	154	164	114	10	31,0	1,3
Economías de mercado en desarrollo	297	379	826	82	447	5,0	16,9
Africa	-	9	9	9	-	..	-
América Latina	234	307	624	73	317	5,6	15,3
Asia	63	63	193	-	130	-	25,0
Economías centralmente planificadas	477	766	1 173	289	407	9,9	8,9
Asia	..	..	..	..	..	..	..
Europa oriental	127	316	473	189	157	20,0	8,4
U.R.S.S.	350	450	700	100	250	5,2	9,2

(a) se incluye la pasta mecanoquímica

Se proyectan innovaciones significativas en América Latina y en los países en desarrollo de Asia. En Japón, se tiene intención de rebajar el nivel de capacidad.

Pasta química para papel

Alrededor del 65 por ciento del total de pasta para papel en 1976 era química, proporción que no se prevé cambiara significativamente en el próximo quinquenio. Entre 1976 y 1981, la capacidad probablemente aumentará, de 88,3 a 103,6 millones de toneladas, o sea, 15,3 millones de toneladas en total. El aumento, aunque superior al que se produjo efectivamente entre 1971 y 1976, es muy pequeño en comparación con el previsto en el estudio de 1975-80 (16,6 millones de toneladas) y en el de 1974-79 (19,3 millones de toneladas).

Cuadro 6 - Aumento de la capacidad de pasta química para papel, 1971-81

	Capacidad			Aumento total		Aumento medio anual	
	1971	1976	1981	1971-76	1976-81	1971-76	1976-81
	--- miles de toneladas			métricas		tanto por ciento	
Total mundial	74 181	88 334	103 643	14 153	15 309	3,6	3,2
Economías de mercado desarrolladas	64 536	74 517	83 747	9 981	9 230	2,9	2,4
Norteamérica	41 404	47 172	53 014	5 768	5 842	2,6	2,4
Japón	5 965	7 788	8 579	1 823	791	5,5	2,0
Europa occidental	16 403	18 420	20 873	2 017	2 453	2,3	2,5
Oceanía	464	867	872	403	5	13,3	0,1
Otros	300	270	409	- 30	139	- 2,1	8,7
Economías de mercado en desarrollo	1 962	3 947	7 406	1 985	3 459	15,0	13,4
Africa	200	285	431	85	146	7,3	8,6
América Latina	1 500	2 993	5 897	1 493	2 904	14,8	14,5
Asia	262	669	1 078	407	409	21,0	10,0
Economías centralmente planificadas	7 683	9 870	12 490	2 187	2 620	5,1	4,8
Asia	872	1 400	1 793	528	393	9,9	5,1
Europa oriental	1 811	2 170	2 897	359	727	3,7	6,0
U.R.S.S.	5 000	6 300	7 800	1 300	1 500	4,7	4,4

En el estudio del año pasado se observó que la capacidad en pasta al sulfito había dejado de aumentar y que manifestaba una disminución marginal. Sigue anunciándose el cierre de fábricas debido al costo del control de la polución, etc., tendencia que se ha confirmado. La disminución de la capacidad es sumamente notable en los países nórdicos y en Estados Unidos, donde en total alrededor de tres cuartos de millón de toneladas se habrán restado a la capacidad, en el quinquenio que termina en 1981. A pesar de los cierres de fábricas en estos países, se planifican algunos aumentos en unos pocos, a saber: Austria, Francia, Yugoslavia y Canadá.

ii) Otras pulpas fibrosas

Entre 1976 y 1981 se prevé que la capacidad en otras pulpas fibrosas para papel aumentará, de 9,7 a 11,8 millones de toneladas, o sea, en 2,1 millones de toneladas, lo que equivale a una tasa anual de 4,1 por ciento. A pesar de que esta no es una cifra tan elevada como la prevista en el último estudio, sigue siendo sustancial. La capacidad en Norteamérica disminuyó entre 1971 y 1976, salvo la pasta no empleada para los fines de la fabricación de papel.

Cuadro 7 - Aumento de la capacidad de otras pastas fibrosas para papel, 1971-81

	Capacidad			Aumento total		Aumento medio anual	
	1971	1976	1981	1971-76	1976-81	1971-76	1976-81
	--- miles de toneladas métricas ---			---		tanto por ciento	---
Total mundial	7 253	9 677	11 824	2 424	2 147	5,9	4,1
Economías de mercado desarrolladas	2 242	1 751	1 768	- 491	17	- 4,9	0,2
Norteamérica	1 000	656	695	- 344	39	- 8,1	1,2
Japón	6	4	4	- 2	-	- 7,7	-
Europa occidental	1 203	982	961	- 221	- 21	- 3,9	- 0,4
Oceanía	3	1	-	- 2	- 1	- 20,0	-
Otros	30	108	108	78	-	29,0	-
Economías de mercado en desarrollo	1 703	2 424	3 624	721	1 200	7,3	8,4
África	130	189	202	59	13	7,8	1,3
América Latina	615	934	1 575	319	641	8,7	11,0
Asia	958	1 301	1 847	343	546	6,3	7,3
Economías centralmente planificadas	3 308	5 502	6 432	2 194	930	10,7	3,2
Asia	2 668	4 838	5 638	2 170	800	12,6	3,1
Europa oriental	240	239	244	- 1	5	- 0,1	0,4
U.R.S.S.	400	425	550	25	125	1,2	5,3

Obsérvese que continuará la disminución de la capacidad en Europa occidental, debido al cierre de algunas fábricas de pasta de paja en los Países Bajos. Más de la mitad del aumento de la capacidad tendrá lugar en países en desarrollo. El bagazo será la materia prima en gran parte de este aumento, que se producirá principalmente en México y Perú; además, es probable que entren en producción capacidades de unas 250 000 toneladas de pasta de bambú.

iii) Pasta soluble

La capacidad en pasta soluble se prevé aumentará a un ritmo acelerado, después de mantenerse casi estática desde 1971. Hay planificadas unas 600 000 toneladas de aumento de capacidad, principalmente en Europa oriental y en la U.R.S.S.

b) Papeles y cartones

El total de la capacidad mundial en papeles y cartones se prevé aumentará, de 179,8 millones de toneladas en 1976 a 207,9 millones de toneladas en 1981, a una tasa media anual de 2,9 por ciento. El volumen de aumento de la capacidad, 28,1 millones de toneladas, es en alrededor del 10 por ciento inferior al que aparece en el estudio del año pasado (31,1 millones de toneladas) y en alrededor de 9 millones de toneladas inferior al nivel indicado en el estudio de 1974-79. Es evidente que las condiciones inciertas del mercado, la grave inflación en muchos países, las altas tasas de interés y otros factores han sido causa de titubeos, reapreciación y postergación de algunos planes. Conviene también prestar atención a una reevaluación de la capacidad en Estados Unidos, la que implica una revisión que rebaja a 1,1 millones de toneladas las cifras correspondientes a 1976 y se refleja en el presente estudio.

Cuadro 8 - Aumento de la capacidad total de papel y cartón, 1971-81

	Capacidad			Aumento total		Aumento medio anual	
	1971	1976	1981	1971-76	1976-81	1971-76 tanto por ciento	1976-81 tanto por ciento
	--- miles de toneladas ---			métricas ---			
Total mundial	146 326	179 793	207 870	33 467	28 077	4,2	2,9
Economías de mercado desarrolladas	121 653	144 005	162 210	22 352	18 205	3,4	2,4
Norteamérica	64 424	72 289	79 278	7 865	6 989	2,3	1,9
Japón	14 909	20 394	23 653	5 485	3 259	6,5	3,0
Europa occidental	39 866	48 076	55 244	8 210	7 168	3,8	2,8
Oceanía	1 721	2 125	2 686	404	561	4,3	4,8
Otros	733	1 121	1 349	388	228	8,9	3,8
Economías de mercado en desarrollo	7 493	12 133	17 214	4 640	5 081	10,1	7,2
África	386	728	824	342	96	13,5	2,5
América Latina	4 670	7 251	10 547	2 581	3 296	9,2	7,8
Asia	2 437	4 154	5 843	1 717	1 689	11,3	7,1
Economías centralmente planificadas	17 180	23 655	28 446	6 475	4 791	6,6	3,8
Asia	4 942	8 193	9 509	3 251	1 316	10,6	3,0
Europa oriental	4 238	5 462	6 437	1 224	975	5,2	3,3
U.R.S.S.	8 000	10 000	12 500	2 000	2 500	4,6	4,6

El ritmo de crecimiento es más rápido en los países en desarrollo que en los desarrollados y esto hace que pueda preverse que la proporción de la capacidad mundial instalada en los países en desarrollo, que era de 4,5 por ciento en 1966 y de 6,7 por ciento en 1976, llegará a 8,3 por ciento en 1981. En términos de volumen, el aumento en las economías centralmente planificadas será casi igual al de los países en desarrollo y, sumados los dos, casi igual a la mitad del aumento probable de 18,2 millones de toneladas de papel y cartón en los países desarrollados. Estando instalada en Norteamérica casi la mitad de la capacidad mundial de papel y cartón es interesante observar que sólo un cuarto del aumento de capacidad tendrá lugar en dicha región.

Papel para periódicos (papel prensa)

La tasa de crecimiento de la capacidad mundial en papel para periódicos en el próximo quinquenio, 3,4 por ciento, no implica ningún cambio con respecto al estudio del año pasado. Se prevén tasas de crecimiento relativamente bajas en las áreas que tienen la capacidad más grande y sobre todo en Norteamérica, pero también es probable un rápido aumento en los países en desarrollo. Las tasas de crecimiento en las economías centralmente planificadas son inferiores al promedio mundial.

Se continúa prestando atención a la facilidad de comercializar papel para periódicos de gramajes inferiores. En estudios anteriores se ha observado la tendencia a reducir el gramaje, de 52 g/m² que era la norma, a 48,8 g/m², lo que ha surtido el efecto de reducir el nivel de capacidad. Las restricciones, en cuanto a disponibilidades de materia prima, el deseo de utilizar los recursos en la forma más provechosa posible, el aumento del costo de la energía, así como consideraciones ambientales, están todos acrecentando la presión por nuevas reducciones. Por eso es posible que en el próximo quinquenio se generalice el uso de papel para periódicos de 45 g/m² más que en el presente, obteniéndose una superficie igual de un volumen menor.

Cuadro 9 - Aumento de capacidad en papel para periódicos (papel prensa) 1971-81

	Capacidad			Aumento total		Aumento medio anual	
	1971	1976	1981	1971-76	1976-81	1971-76	1976-81
	--- miles de toneladas métricas ---			---		tanto por ciento	
Total mundial	23 869	25 418	30 073	1 549	4 655	1,3	3,4
Economías de mercado desarrolladas	20 867	21 769	24 966	902	3 197	0,9	2,8
Norteamérica	12 265	12 601	13 667	336	1 066	0,5	1,6
Japón	2 009	2 438	3 137	429	699	3,9	5,2
Europa occidental	6 017	5 970	7 075	- 47	1 105	- 0,2	3,5
Oceanía	398	533	713	135	180	6,0	6,0
Otros	178	227	374	49	147	5,0	10,5
Economías de mercado en desarrollo	583	848	1 880	265	1 032	7,8	17,3
África	12	13	27	1	14	1,6	15,7
América Latina	308	364	1 060	56	696	3,4	24,0
Asia	263	471	793	208	322	12,4	11,0
Economías centralmente planificadas	2 419	2 801	3 227	382	426	3,0	2,9
Asia	724	860	1 010	136	150	3,5	3,3
Europa oriental	345	391	417	46	26	2,5	1,3
U.R.S.S.	1 350	1 550	1 800	200	250	2,8	3,0

Otros papeles de escritura e impresión

El crecimiento futuro de la capacidad de otros papeles de escritura e impresión será particularmente notable en los países en desarrollo, en los que se prevé entrará en producción entre 1976 y 1981 alrededor de 1 millón de toneladas de nueva capacidad. Aunque la tasa de ampliación será ligeramente menor que en el pasado reciente, 6,2 comparado con 7,1 por ciento, el volumen respectivo será mayor. Sólo en Japón la tasa de crecimiento y el volumen se aproximan a los aumentos de los países en desarrollo.

Cuadro 10 - Aumento de la capacidad en otros papeles de escritura e impresión, 1971-81

	Capacidad			Aumento total		Aumento medio anual	
	1971	1976	1981	1971-76	1976-81	1971-76	1976-81
	--- miles de toneladas métricas ---			---		tanto por ciento	
Total mundial	31 639	39 512	46 423	7 873	6 911	4,5	3,3
Economías de mercado desarrolladas	26 522	32 114	37 102	5 592	4 988	3,9	2,9
Norteamérica	12 096	14 080	15 448	1 984	1 368	3,1	1,9
Japón	2 988	3 616	4 877	628	1 261	3,9	6,2
Europa occidental	11 101	13 975	16 349	2 874	2 374	4,7	3,2
Oceanía	222	263	279	41	16	3,5	1,2
Otros	115	180	149	65	- 31	9,4	- 3,8
Economías de mercado en desarrollo	2 060	2 897	3 915	837	1 018	7,1	6,2
África	115	216	240	101	24	13,4	2,1
América Latina	1 013	1 376	1 886	363	510	6,3	6,5
Asia	932	1 305	1 789	373	484	7,0	6,5
Economías centralmente planificadas	3 057	4 501	5 406	1 444	905	8,0	3,7
Asia	1 062	2 198	2 605	1 136	407	15,7	3,5
Europa oriental	895	1 003	1 251	108	248	2,3	4,5
U.R.S.S.	1 100	1 300	1 550	200	250	3,4	3,6

Proporción entre la capacidad en pasta para papel y en papel y cartón

Por más de diez años la proporción entre la capacidad de producción de pasta y la capacidad de producción de papel y cartón ha ido disminuyendo a medida que se ha ido instalando más capacidad en papel que en pasta. Esta disminución actualmente casi ha cesado y probablemente llegará a su punto más bajo en 1977. A continuación debería producirse un aumento, lento primero y después más rápido, hasta llegar a 78,4 por ciento en 1981. Incluso así, esta cifra es inferior al 81,8 por ciento alcanzado en 1965. Las proporciones pasadas y futuras entre la capacidad en pasta y la capacidad en papel y cartón son las siguientes:

	<u>Proporción pasta/papel tanto por ciento</u>
1965	81,8
1970	80,5
1975	77,8
1976	77,6
1977 (a)	77,3
1978 (a)	77,4
1979 (a)	77,5
1980 (a)	78,0
1981 (a)	78,4

(a) como se prevé en el estudio 1976-81

Comparación con estudios anteriores

El estudio actual del período 1976-81 es menos optimista que los dos anteriores, incluso el estudio de 1974-79 realizado en base a las enmiendas propuestas por nueve países: Canadá, Estados Unidos, Brasil, Finlandia, Francia, República Federal de Alemania, Suecia, Reino Unido y Japón. La comparación con los estudios anteriores se ilustra en el cuadro siguiente:

<u>Período en estudio</u>	<u>Aumento total en el período</u>	
	Total pasta para papel	Total papel y cartón
millones de toneladas métricas		
1969 - 74	26,1	37,5
1970 - 75	29,0	34,4
1971 - 76	24,9	27,8
1972 - 77	24,7	28,3
1973 - 78	23,6	32,4
1974 - 79 (a)	26,7	33,3
1975 - 80	25,4	31,1
1976 - 81	23,3	28,1

(a) después de las enmiendas propuestas por nueve países, mencionada más arriba

Los resultados del presente estudio, comparado con los anteriores, una vez más ilustra el optimismo de las estimaciones sobre pasta en los años finales. La capacidad efectiva en pasta de madera en 1976 era de 129,9 millones de toneladas, en comparación con 133,7 millones de toneladas previstos para ese año en el estudio 1971-76.

Igual optimismo por lo general se ha puesto de manifiesto en las cifras sobre capacidad en papel y cartón, pero la situación en 1976 es todo lo contrario: una capacidad efectiva de 179,8 millones de toneladas, en comparación con la prevista para ese año, cinco años antes, a saber, 175,2 millones de toneladas. Parece probable que se produzca una situación semejante en 1977, como puede observarse en el Anexo 10.

Con respecto a las principales pastas, papeles y cartones, el aumento global de capacidad previsto para los períodos que abarcan los últimos cuatro estudios se dá a conocer a continuación:

	<u>Estudio</u> 1973-78	<u>Estudio*</u> 1974-79	<u>Estudio</u> 1975-80	<u>Estudio</u> 1976-81
-- miles de toneladas métricas -- -- --				
Total de pastas de madera	21 527	24 306	22 815	21 134
Se subdivide en:				
Mecánica	4 004	4 773	4 075	4 348
Semiquímica (a)	2 270	2 298	2 148	1 477
Química	15 253	17 235	16 592	15 309
Otras pastas fibrosas	2 046	2 431	2 605	2 147
Total de papeles y cartones	32 388	33 256	31 060	28 077
Se subdivide en:				
Papel para periódicos (papel prensa)	4 013	4 579	4 537	4 655
Otros papeles de escritura e impresión	6 993	7 671	7 303	6 911
Otros papeles y cartones	21 382	21 008	19 220	16 511
- de envolver y empaquetar	..	..	15 493	13 161

(a) Se incluye la pasta mecanoquímica

* Con las enmiendas de los nueve países

A N N E X ' E S

REGION / CODE	PAPER PULP						PAPER AND PAPERBOARD					
	TOTAL		WOOD PULP			OTHER FIBRE PULP	DISSOLVING PULP		NEWSPRINT TOTAL	PRINTING WRITING	TOTAL	WRAPPING
	1 + 2	1	TOTAL MECH.	SEMI-CHEM.	CHEMICAL	1,3	1,2	1,1	4	4,1	4,2	4,3
WORLD TOTAL: of which:	139 598	129 921	31 060	10 527	88 334	9 677	5 761	179 793	25 418	39 512	114 863	86 387
DEV'ED MARKET ECONOMIES of which:	112 126	110 375	26 476	9 382	74 517	1 751	4 001	144 005	21 769	32 114	90 122	69 139
NORTHERN AMERICA	65 657	65 001	13 419	4 410	47 172	656	1 874	72 289	12 601	14 080	45 608	36 493
JAPAN	11 989	11 985	1 874	2 323	7 788	4	479	20 394	2 438	3 616	14 340	10 992
WESTERN EUROPE	31 529	30 547	10 076	2 051	18 420	982	1 338	48 076	5 970	13 975	28 131	19 913
" E. E. C.	6 782	6 170	2 817	835	2 518	612	424	27 284	2 012	8 527	16 745	10 573
- NORDIC COUNTRIES	20 505	20 505	6 345	995	13 165	—	665	14 202	3 325	3 490	7 387	6 072
- REST OF W.E.	4 242	3 872	914	221	2 737	370	249	6 590	633	1 958	3 999	3 268
OCEANIA	2 119	2 118	807	444	867	1	—	2 125	533	263	1 329	1 133
OTHERS	832	724	300	154	270	108	310	1 121	227	180	714	608
DEV'ING MARKET ECONOMIES of which:	7 506	5 082	756	379	3 947	2 424	209	12 133	848	2 897	8 388	7 264
AFRICA	501	312	18	9	285	189	—	728	13	216	499	493
LATIN AMERICA	4 628	3 694	394	307	2 993	934	69	7 251	364	1 376	5 511	4 489
ASIA	2 377	1 076	344	63	669	1 301	140	4 154	471	1 305	2 378	2 282
CENT. PLANNED ECONOMIES of which:	19 966	14 464	3 828	766	9 870	5 502	1 551	23 655	2 801	4 501	16 353	9 984
ASIA	7 057	2 219	819	—	1 400	4 838	40	8 193	860	2 198	5 135	27
EASTERN EUROPE	3 634	3 395	909	316	2 170	239	411	5 462	391	1 003	4 068	3 572
U.S.S.R.	9 275	8 850	2 100	450	6 300	425	1 100	10 000	1 550	1 300	7 150	6 385

REGION / CODE	CAPACITY FOR 1977	PAPER PULP						PAPER AND PAPERBOARD					
		TOTAL		WOOD PULP		OTHER FIBRE PULP		TOTAL		NEWSPRINT WRITING		TOTAL WRAPPING	
		TOTAL 1 + 2	1	MECH. 1.1	SEMICO- 1.2	CHEMICAL 1.3	2	000 metric tons	3	4	4.1	4.2	4.3	4.32
WORLD TOTAL:		143 881	133 826	32 058	10 944	90 824	10 055	5 804	186 119	26 147	41 231	118 741	89 363
of which:													
DEV'ED MARKET ECONOMIES	114 894	113 154	27 361	9 619	76 174	1 740	3 968	148 462	22 364	33 444	92 654	71 157	
of which:													
NORTHERN AMERICA	67 295	66 620	13 517	4 626	48 477	675	1 818	74 246	12 837	14 551	46 858	37 523	
JAPAN	12 099	12 095	2 003	2 257	7 835	4	479	20 724	2 552	3 805	14 367	10 979	
WESTERN EUROPE	32 474	31 522	10 671	2 133	18 718	952	1 361	50 078	6 152	14 608	29 318	20 865	
- E. E. C.	6 908	6 311	2 924	860	2 527	597	426	28 155	2 016	8 812	17 327	11 079	
- NORDIC COUNTRIES	21 090	21 090	6 775	1 050	13 265	—	660	14 915	3 485	3 690	7 740	6 345	
REST OF W.E.	4 476	4 121	972	223	2 926	355	275	7 008	651	2 106	4 251	3 441	
OCEANIA	2 139	2 138	827	444	867	1	—	2 137	533	263	1 341	1 143	
OTHERS	887	779	343	159	277	108	310	1 277	290	217	770	647	
DEV'ING MARKET ECONOMIES	8 185	5 562	766	449	4 347	2 623	209	13 005	888	3 129	8 988	7 715	
of which:													
AFRICA	517	323	18	9	296	194	—	754	13	221	520	513	
LATIN AMERICA	5 167	4 137	398	377	3 362	1 030	69	7 863	397	1 538	5 928	4 762	
ASIA	2 501	1 102	350	63	689	1 399	140	4 388	478	1 370	2 540	2 440	
CENT. PLANNED ECONOMIES	20 802	15 110	3 931	876	10 303	5 692	1 627	24 652	2 895	4 658	17 099	10 491	
of which:													
ASIA	7 331	2 333	860	—	1 473	4 998	40	8 447	890	2 271	5 286	27	
EASTERN EUROPE	3 771	3 527	921	376	2 230	244	412	5 705	405	1 037	4 263	3 694	
U.S.S.R.	9 700	9 250	2 150	500	6 600	450	1 175	10 500	1 600	1 350	7 550	6 770	

CAPACITY FOR 1978

41

ANNEX 3

REGION / CODE	PAPER PULP						PAPER AND PAPERBOARD					
	TOTAL		WOOD PULP		OTHER FIBRE PULP		DISSOLVING PULP		NEWSPRINT TOTAL		PRINTING WRITING	
	1 + 2	1	MECH.	SEMI-CHEM.	CHEMICAL	1.3	2	3	4	4.1	4.2	4.3	4.32
WORLD TOTAL:	149 025	138 376	33 095	11 245	94 036	10 649	6 025	192 548	27 245	42 775	122 528	92 264
of which:												
DEVEL MARKET ECONOMIES	118 013	116 268	28 252	9 726	78 290	1 745	4 052	152 802	23 161	34 601	95 040	72 940
NORTHERN AMERICA	68 709	68 021	13 740	4 706	49 575	688	1 868	75 743	13 020	14 864	47 859	38 338
JAPAN	12 671	12 667	2 289	2 251	8 127	4	479	21 618	2 867	4 094	14 657	11 183
WESTERN EUROPE	33 459	32 514	11 003	2 119	19 392	945	1 395	51 877	6 461	15 149	30 267	21 487
- E.E.C.	7 063	6 480	3 008	866	2 606	583	428	29 081	2 061	9 093	17 927	11 433
- NORDIC COUNTRIES	21 675	21 675	7 000	1 025	13 650	—	685	15 470	3 740	3 825	7 905	6 460
- REST OF W.E.	4 721	4 359	995	228	3 136	362	282	7 326	660	2 231	4 435	3 594
OCEANIA	2 228	2 228	869	487	872	—	—	2 279	533	270	1 476	1 275
OTHERS	946	838	351	163	324	108	310	1 285	280	224	781	657
DEVING MARKET ECONOMIES	9 364	6 341	823	559	4 959	3 023	229	14 180	1 099	3 370	9 711	8 313
of which:												
AFRICA	554	355	18	9	328	199	—	782	13	223	546	538
LATIN AMERICA	6 107	4 766	410	487	3 869	1 341	69	8 641	563	1 649	6 429	5 140
ASIA	2 703	1 220	395	63	762	1 483	160	4 757	523	1 498	2 736	2 635
CENT. PLANNED ECONOMIES	21 648	15 767	4 020	960	10 787	5 881	1 744	25 566	2 985	4 804	17 777	11 011
of which:												
ASIA	7 605	2 447	901	—	1 546	5 158	40	8 701	920	2 344	5 437	27
EASTERN EUROPE	3 918	3 670	919	410	2 341	248	454	5 865	415	1 060	4 390	3 829
U.S.S.R.	10 125	9 650	2 200	550	6 900	475	1 250	11 000	1 650	1 400	7 950	7 155

REGION / CODE	CAPACITY FOR 1979	PAPER PULP						PAPER AND PAPERBOARD						
		TOTAL		WOOD PULP			OTHER FIBRE PULP	TOTAL		NEWSPRINT		PRINTING WRITING	TOTAL	
		TOTAL 1 + 2	1	MECH.	SEMI-CHEM.	CHEMICAL		1 000 metric tons	3	4	4.1	4.2	4.3	4.32
WORLD TOTAL:		153 979	142 808	33 903	11 514	97 391	11 171	6 182	198 634	28 304	44 215	126 115	95 163	
of which:														
DEV'ED MARKET ECONOMIES		120 879	119 115	28 883	9 871	80 361	1 764	4 083	156 844	23 935	35 634	97 275	74 729	
of which:														
NORTHERN AMERICA		70 359	69 664	14 013	4 785	50 866	695	1 887	77 005	13 179	15 045	48 781	39 128	
JAPAN		12 955	12 951	2 401	2 244	8 306	4	479	22 821	3 054	4 568	15 199	11 585	
WESTERN EUROPE		34 279	33 322	11 214	2 185	19 923	957	1 407	53 331	6 807	15 600	30 924	21 972	
- E. E. C.		7 336	6 741	3 156	892	2 693	595	431	29 841	2 247	9 298	18 296	11 661	
- NORDIC COUNTRIES		21 980	21 980	7 010	1 065	13 905	—	690	15 925	3 900	3 960	8 065	6 610	
- REST OF W.E.		4 963	4 601	1 048	228	3 325	362	286	7 565	660	2 342	4 563	3 701	
OCEANIA		2 269	2 269	904	493	872	—	—	2 371	533	274	1 564	1 362	
OTHERS		1 017	909	351	164	394	108	310	1 316	362	147	807	682	
DEV'ING MARKET ECONOMIES		10 619	7 276	907	629	5 740	3 343	229	15 301	1 304	3 603	10 394	8 947	
of which:														
AFRICA		586	384	28	9	347	202	—	814	24	235	555	547	
LATIN AMERICA		7 019	5 537	421	557	4 559	1 482	69	9 368	684	1 764	6 920	5 584	
ASIA		3 014	1 355	458	63	834	1 659	160	5 119	596	1 604	2 919	2 816	
CENT. PLANNED ECONOMIES		22 481	16 417	4 113	1 014	11 290	6 064	1 870	26 489	3 065	4 978	18 446	11 487	
of which:														
ASIA		7 879	2 561	942	—	1 619	5 318	40	8 971	950	2 432	5 589	28	
EASTERN EUROPE		4 052	3 806	921	414	2 471	246	505	6 018	415	1 096	4 507	3 919	
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	

CAPACITY FOR 1980		PAPER PULP										PAPER, AND PAPERBOARD					
		TOTAL		WOOD PULP			OTHER FIBRE PULP			DISSOLVING PULP		NEWSPRINT		PRINTING WRITING		TOTAL	
REGION /	CODE	1 + 2	1	TOTAL	MECH.	SEMI-CHEM.	CHEMICAL	1.3	2	3	4	4.1	4.2	4.3	4.3	4.32	
WORLD TOTAL:																	
of which:																	
DEV'D MARKET ECONOMIES		123 725	121 957	29 561	9 957	82 439	1 768	4 114	6 342	204 059	29 403	45 450	129 206	98 951	97 800	76 152	
NORTHERN AMERICA		72 131	71 436	14 413	4 814	52 209	695	1 912	78 467	13 667	15 283	49 517	39 755				
JAPAN		13 172	13 168	2 427	2 244	8 497	4	479	23 422	3 106	4 829	15 487	11 796				
WESTERN EUROPE		35 133	34 172	11 466	2 242	20 464	961	1 413	54 280	6 910	15 886	31 484	22 467				
- E.E.C.		7 650	7 051	3 324	919	2 808	599	432	30 172	2 325	9 410	18 437	11 748				
- NORDIC COUNTRIES		22 310	22 310	7 075	1 095	14 140	—	695	16 355	3 925	4 045	8 385	6 915				
- REST OF W.E.		5 173	4 811	1 067	228	3 516	362	286	7 753	660	2 431	4 662	3 804				
OCEANIA		2 269	2 269	904	493	872	—	—	2 454	533	277	1 644	1 440				
OTHERS		1 020	912	351	164	397	108	310	1 331	364	148	819	694				
DEV'D MARKET ECONOMIES		12 015	8 432	1 092	776	6 564	3 583	249	16 607	1 676	3 794	11 137	9 671				
of which:																	
AFRICA		593	391	31	9	351	202	—	824	27	240	557	549				
LATIN AMERICA		7 924	6 380	510	609	5 261	1 544	69	10 185	907	1 827	7 451	6 098				
ASIA		3 498	1 661	551	158	952	1 837	180	5 598	742	1 727	3 129	3 024				
CENT. PLANNED ECONOMIES		23 522	17 269	4 204	1 095	11 970	6 253	1 979	27 498	3 147	5 233	19 118	11 977				
of which:																	
ASIA		8 169	2 691	983	—	1 708	5 478	40	9 242	980	2 520	5 742	30				
EASTERN EUROPE		4 378	4 128	921	445	2 762	250	539	6 256	417	1 213	4 626	4 022				
U.S.S.R.		10 975	10 450	2 300	650	7 500	525	1 400	12 000	1 750	1 500	8 750	7 925				

CAPACITY FOR 1981		PAPER PULP						PAPER AND PAPERBOARD						
		TOTAL		WOOD PULP		DISSOLVING PULP		TOTAL		NEWSPRINT PRINTING WRITING		TOTAL WRAPPING		
REGION	CODE	1 + 2	1	1.1	1.2	1.3	1.4	2	3	4	4.1	4.2	4.3	4.32
WORLD TOTAL:		162 879	151 055	35 408	12 004	103 643	11 824	6 436	207 870	30 073	46 423	131 374	99 548	
of which:														
DEV'D MARKET ECONOMIES		125 405	123 637	29 885	10 005	83 747	1 768	4 138	162 210	24 966	37 102	100 142	77 217	
of which:														
NORTHERN AMERICA		72 954	72 259	14 413	4 832	53 014	695	1 931	79 278	13 667	15 448	50 163	40 391	
JAPAN		13 278	13 274	2 451	2 244	8 579	4	479	23 653	3 137	4 877	15 639	11 911	
WESTERN EUROPE		35 683	34 722	11 617	2 232	20 873	961	1 418	55 244	7 075	16 349	31 820	22 764	
- E. E. C.		7 721	7 122	3 324	919	2 879	599	432	30 486	2 415	9 536	18 535	11 817	
- NORDIC COUNTRIES		22 620	22 620	7 225	1 085	14 310	—	700	16 875	4 000	4 310	8 565	7 085	
- REST OF W.E.		5 342	4 980	1 068	228	3 684	362	286	7 883	660	2 503	4 720	3 862	
OCEANIA		2 458	2 458	1 053	533	872	—	—	2 686	713	279	1 694	1 450	
OTHERS		1 032	924	351	164	409	108	310	1 349	374	149	826	701	
DEV'NG MARKET ECONOMIES		13 081	9 457	1 225	826	7 406	3 624	249	17 214	1 880	3 915	11 419	9 931	
of which:														
AFRICA		673	471	31	9	431	202	—	824	27	240	557	549	
LATIN AMERICA		8 695	7 120	599	624	5 897	1 575	69	10 547	1 060	1 886	7 601	6 223	
ASIA		3 713	1 866	595	193	1 078	1 847	180	5 843	793	1 789	3 261	3 159	
CENT. PLANNED ECONOMIES		24 393	17 961	4 298	1 173	12 490	6 432	2 049	28 446	3 227	5 406	19 813	12 400	
of which:														
ASIA		8 454	2 816	1 023	—	1 793	5 638	40	9 509	1 010	2 605	5 894	32	
EASTERN EUROPE		4 539	4 295	925	473	2 897	244	534	6 437	417	1 251	4 769	4 058	
U.S.S.R.		11 400	10 850	2 350	700	7 800	550	1 475	12 500	1 800	1 550	9 150	8 310	

HARDWOOD PULP CAPACITY
IN SELECTED COUNTRIES 1976-81

	Chemical-groundwood and Semi-chemical Hardwood Pulp (Code 1.21)						Bleached and Semi-bleached Sulphate and Soda Hardwood Pulp (Code 1.34.1)					
	1976	1977	1978	1979	1980	1981	1976	1977	1978	1979	1980	1981
Angola	-	-	-	-	-	-	37	37	37	37	37	37
Cameroon	-	-	1	1	1	1	-	-	-	-	-	80
Madagascar	1	1	1	1	1	1	55	83	91	95	95	-
Morocco	-	159	163	164	164	164	38	52	69	69	69	69
South Africa	154	478	479	482	484	484	881	843	881	915	916	916
Canada	431	-	-	-	-	-	25	25	25	25	25	25
Mexico	-	-	-	-	-	-	6	600	6 877	7 124	7 399	8 037
U.S.A.	102	111	200	235	275	290	68	68	75	80	85	948
Argentina	117	117	125	183	195	195	672	935	1 304	1 719	2 062	2 257
Brazil	-	-	-	-	-	-	9	3	3	3	3	3
Chile	-	-	-	-	-	-	-	-	-	-	-	-
Colombia	34	40	40	40	40	40	-	-	-	-	-	-
Peru	-	-	-	-	-	-	4	4	4	4	4	4
Uruguay	-	-	-	-	-	-	12	12	12	12	12	12
India	-	-	-	-	-	-	140	150	150	150	180	180
Japan	2 195	2 133	2 127	2 121	2 121	2 121	3 654	3 735	3 867	3 884	3 988	4 028
Philippines	-	-	-	-	-	-	75	75	75	75	75	145
Sri Lanka	-	-	-	-	-	-	-	-	2	2	2	2
Turkey	28	28	28	28	28	28	70	70	70	70	70	70
Belgium	-	-	-	-	-	-	190	200	210	210	210	210
Bulgaria	90	90	90	90	90	90	6	6	17	17	17	17
Czechoslovakia	63	63	63	63	63	63	-	-	-	-	-	-
Denmark	125	125	125	125	125	125	-	-	-	-	-	-
Finland	435	435	395	395	395	395	760	900	1 030	1 070	1 100	1 100
France	230	275	300	320	340	340	400	400	400	410	410	410
Germany, Fed. Rep.	68	68	68	68	68	68	-	-	-	-	-	-
Hungary	36	58	66	69	77	77	-	-	-	-	-	-
Netherlands	45	45	45	45	45	45	-	-	-	-	-	-
Norway	85	90	90	95	95	95	140	140	135	135	50	-
Poland	14	52	78	79	102	130	-	-	-	-	-	-
Portugal	-	-	5	5	5	5	285	300	432	441	443	443
Romania	44	44	44	44	44	44	44	90	95	95	95	95
Spain	-	-	-	-	-	-	380	434	466	516	611	705
Sweden	440	490	500	535	565	565	865	855	885	885	880	880
United Kingdom	110	110	112	115	115	115	-	-	-	-	-	-
Australia	264	264	264	264	264	264	264	264	264	264	264	264
New Zealand	54	54	54	54	54	54	54	54	54	54	54	54
TOTAL OF ABOVE COUNTRIES	5 190	5 355	5 487	5 642	5 780	5 823	15 473	16 273	17 451	18 331	19 493	19 833

MARKET PULP CAPACITY, PAPER GRADES

	Total Pulp, Paper Grades (Code 1 + 2)			Chemical Woodpulp (Code 1.3)				
	1976	1977	1978	1979	1976	1977	1978	1979
Developed Market Economies								
Canada	23 317	23 752	24 273	25 231	20 572	21 059	21 533	22 492
U.S.A.	6 729	7 055	7 225	7 800	6 468	6 775	6 945	7 520
NORTHERN AMERICA	3 567	3 843	3 955	4 127	3 462	3 738	3 850	4 022
Japan	10 386	10 898	11 180	11 927	9 930	10 513	10 795	11 542
Austria	1 244	1 244	1 244	1 244	1 107	1 107	1 107	1 107
Belgium	214	218	225	306	206	210	218	295
Denmark	196	206	216	216	196	206	206	206
Finland	195	195	198	198	—	—	—	—
France	1 870	2 000	2 060	2 070	1 800	1 930	1 990	2 000
Germany, Fed. Rep.	545	545	575	625	540	540	570	620
Ireland	193	189	168	168	186	183	162	162
Netherlands	9	9	9	9	—	—	—	—
Norway	5	5	5	5	—	—	—	—
Portugal	1 155	1 170	1 155	1 090	470	485	470	405
Spain	473	482	604	618	473	482	604	618
Sweden	519	555	559	614	425	461	465	520
Switzerland	.5 350	5 075	5 115	5 180	4 625	4 330	4 325	4 395
United Kingdom	120	120	120	120	110	110	110	110
WESTERN EUROPE	50	50	50	50	50	50	50	50
New Zealand	10 894	10 819	11 059	11 269	9 081	8 987	9 170	9 381
South Africa	762	762	762	762	448	448	448	448
	31	29	28	29	6	4	13	14

MARKET PULP CAPACITY, PAPER GRADES

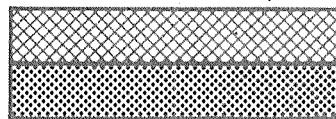
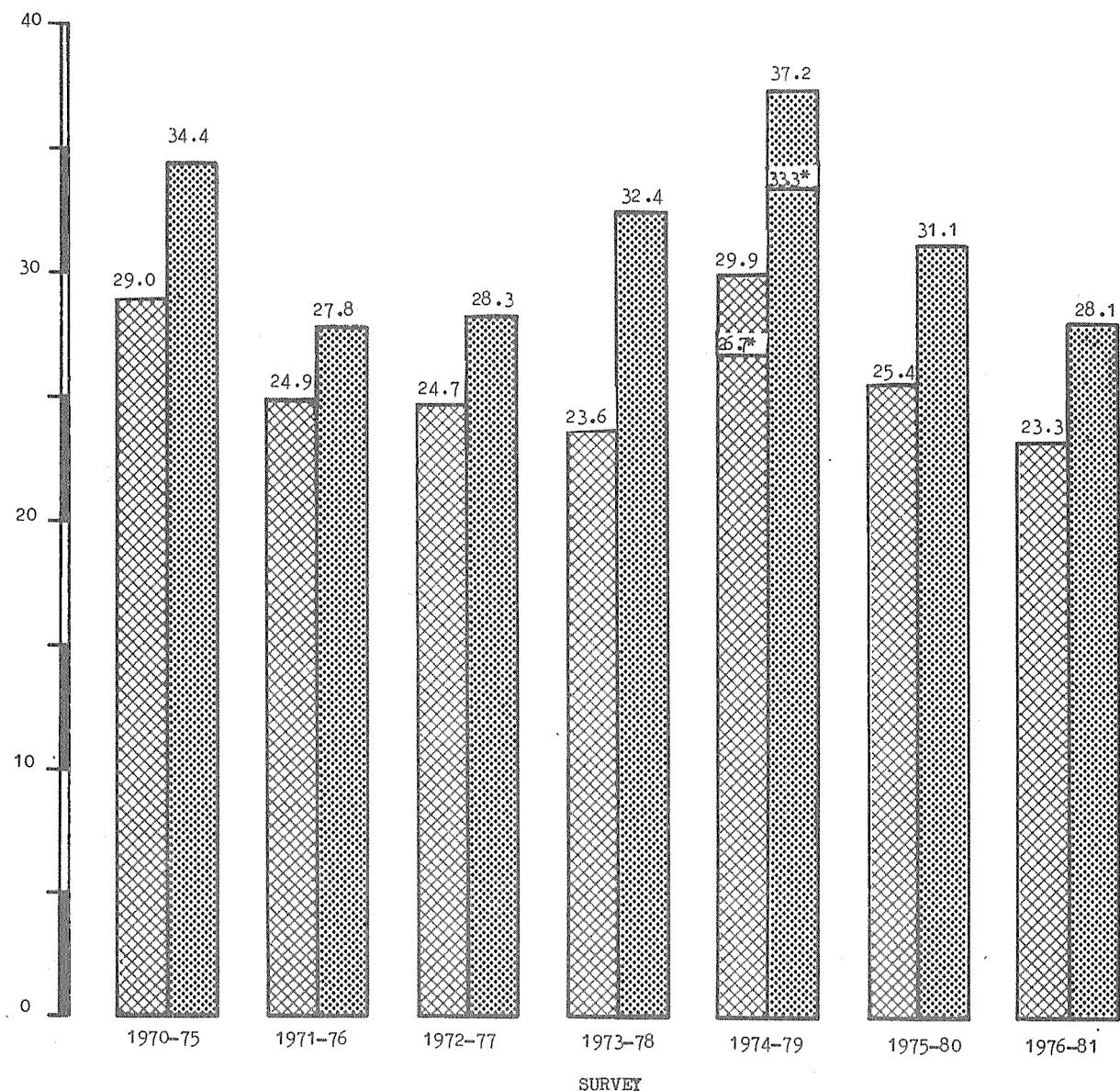
		Total Pulp, Paper Grades (Code 1 + 2)			Chemical Woodpulp (Code 1.3)				
		1976	1977	1978	1979	1976	1977	1978	1979
Developing Market Economies									
Algeria	44	44	44	44	44	—	—	—	—
Angola	32	32	32	32	32	32	32	32	32
Morocco	55	55	83	91	55	55	83	91	91
Swaziland	141	152	156	167	141	152	156	167	167
Tunisia	8	7	7	7	—	—	—	—	—
AFRICA	280	283	322	341	228	239	271	290	290
Argentina	20	25	35	45	5	10	15	15	15
Brazil	563	775	1 137	1 489	509	719	1 081	1 433	1 433
Chile	454	439	427	392	454	439	427	392	392
Mexico	238	283	283	419	154	154	154	290	290
LATIN AMERICA	1 275	1 522	1 882	2 345	1 122	1 322	1 677	2 130	2 130
India	25	25	25	25	—	—	—	—	—
Korea, Republic of	37	47	47	47	6	6	6	6	6
Philippines	21	21	21	21	—	—	—	—	—
ASIA	83	93	93	93	6	6	6	6	6
Centrally Planned Economies	1 554	1 655	1 755	1 860	1 477	1 582	1 682	1 782	1 782
Bulgaria	120	116	116	121	45	45	45	45	45
Hungary	2	2	2	2	—	—	—	—	—
Romania	32	37	37	37	32	37	37	37	37
EASTERN EUROPE	154	155	155	160	77	82	82	82	82
U.S.S.R.	1 400	1 500	1 600	1 700	1 400	1 500	1 600	1 700	1 700
TOTAL OF COUNTRIES LISTED	26 509	27 305	28 325	29 870	23 405	24 208	25 169	26 700	26 700

ANNEX 9

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

million
metric tons

* After amendment by nine countries

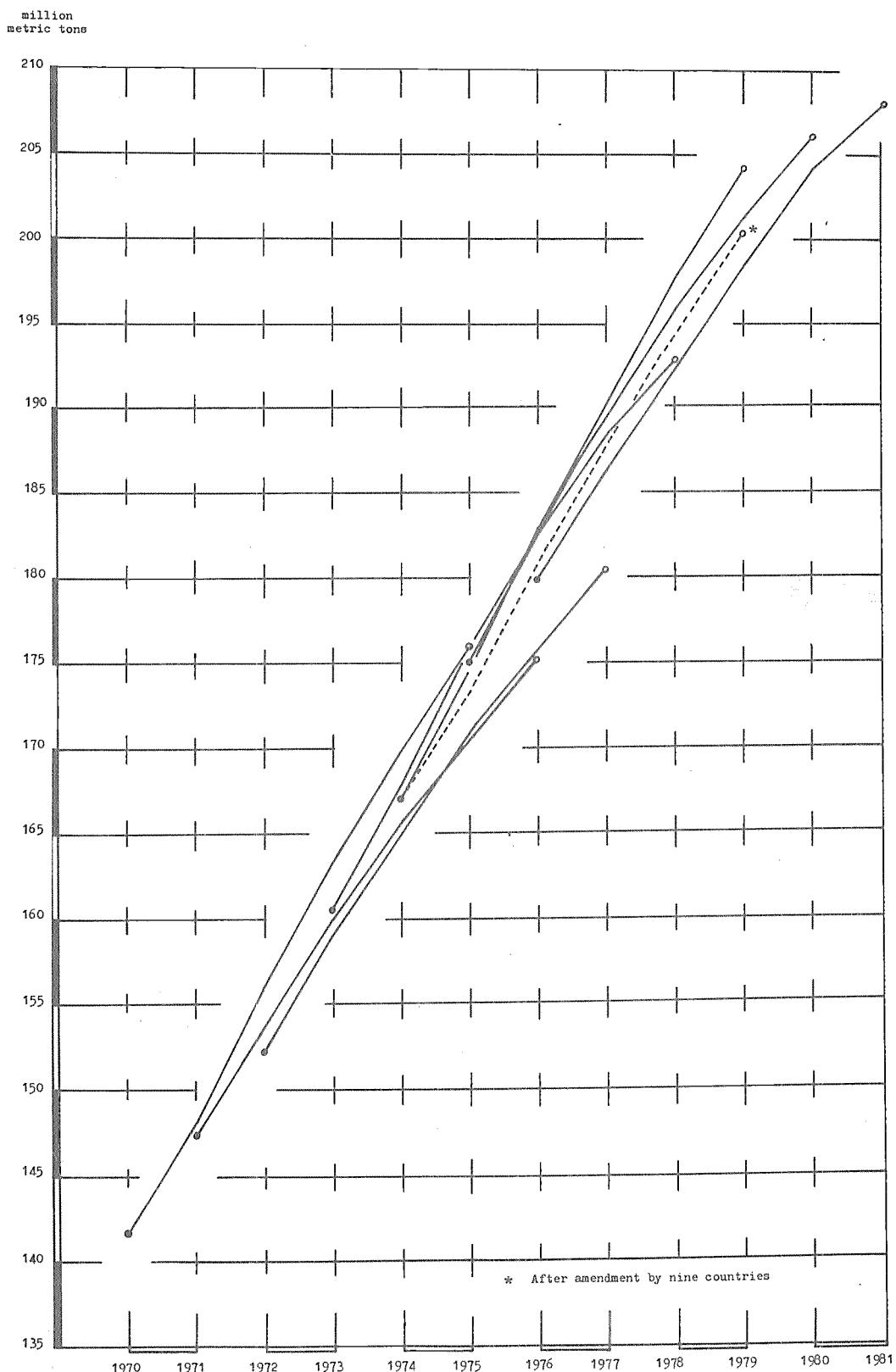


TOTAL PULP FOR PAPERMAKING

TOTAL PAPER AND PAPERBOARD

PAPER AND PAPERBOARD WORLD CAPACITY 1970-1981
COMPARISON OF ESTIMATES FROM SEVEN SURVEYS

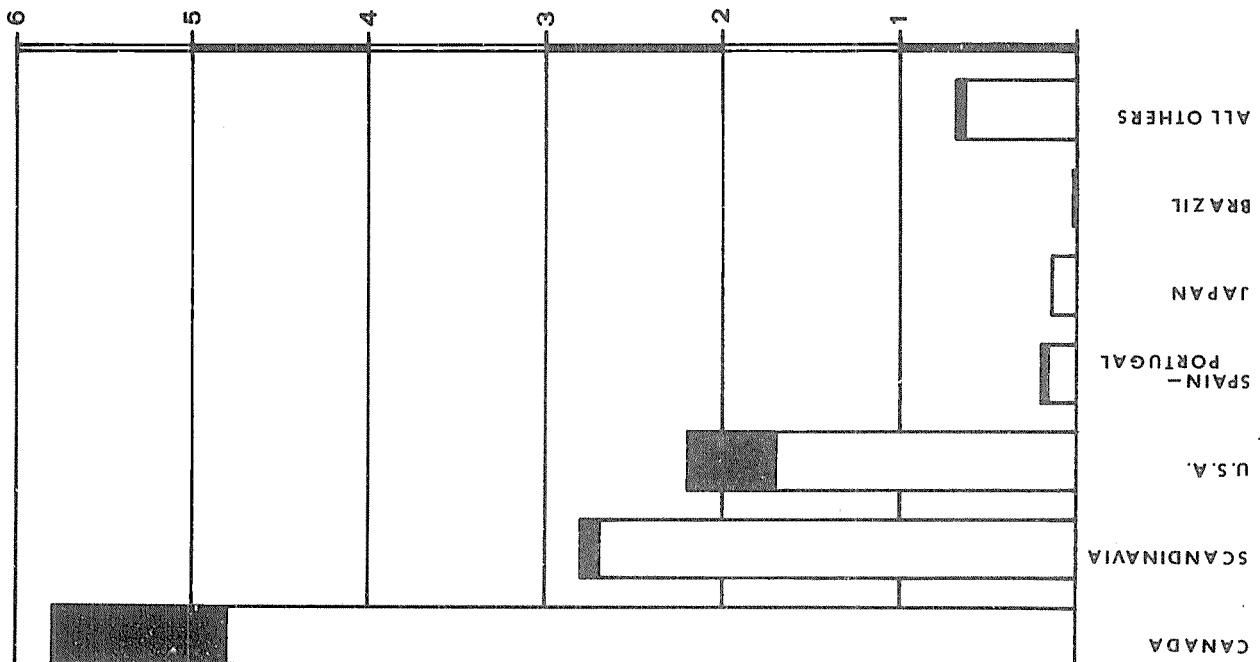
ANNEX 10



**BLEACHED SULPHATE MARKET PULP
CAPACITY IN 1976 AND 1979**

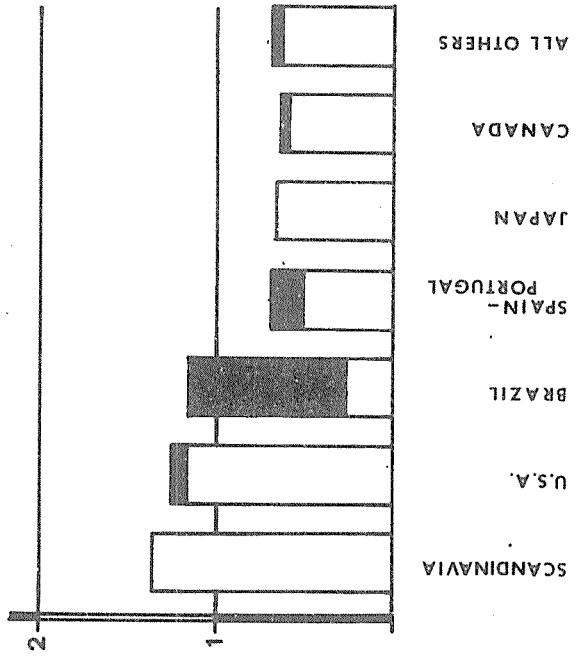
- Million Metric Tons -

SOFTWOOD



ADDITION 1976-79

HARDWOOD



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>Include</u> thermo mechanical pulp. <u>Exclude</u> 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	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.
1.21	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.
1.31	Unbleached sulphite	Sulphite pulp which has not been bleached.
1.31.1	of which: non-coniferous	Unbleached sulphite pulp obtained from non-coniferous wood.
1.32	Bleached and semi-bleached sulphite	Sulphite pulp which has been bleached or partly bleached.
1.32.1	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.
1.33	Unbleached sulphate and soda	Sulphate and soda pulp which has not been bleached.
1.33.1	of which: non-coniferous	Unbleached sulphate and soda pulp obtained from non-coniferous wood.
1.34	Bleached and semi-bleached sulphate and soda	Sulphate and soda pulp which has been bleached or partly bleached.
1.34.1	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.

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.

<u>Survey Code</u>	<u>Grade</u>	<u>Definition</u>
4.1	Newsprint	Uncoated paper, unsized (or only slightly sized), containing at least 60% 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 ² and generally not more than 60 g/m ² .
		<u>Include</u> rotonews
4.2	Other printing and writing paper	Paper, except newsprint, suitable for printing and business purposes, writing, sketching, drawing etc., 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, gypsum or zinc oxide, often supplemented with supercalendering, etc.
		<u>Include</u> such papers as:
		book and magazine box lining and covering calculator papers duplicating tablet or block label lithograph bank note tabulating card stock bible or imitation bible stationery manifold onionskin typewriter poster, etc.
		of which:
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.

<u>Survey Code</u>	<u>Grade</u>	<u>Definition</u>
	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, super-calendering, 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, sometimes with admixture of pulp from waste paper. 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: towelling napkin facial tissue toilet tissue sanitary wadding disposable tissues wiper stock
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.

<u>Survey Code</u>	<u>Grade</u>	<u>Definition</u>
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.
4.32.11.2	Bleached	Kraft liner made wholly or principally of bleached sulphate pulp.
4.32.12	Other linerboard	Linerboard made wholly or principally of waste paper and materials other than sulphate pulp.
4.32.2	Fluting medium	Paper or paperboard used mainly as a corrugating medium in the production of corrugating 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 made principally from waste paper and materials other than semi-chemical woodpulp.
4.32.3	Kraft wrapping and packaging paper	All other papers made 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.
4.32.4	Folding boxboard	All types of paperboard used in the manufacture of folding boxes. Strength as well as good scoring and folding characteristics are required. These paperboards are made from woodpulps, waste paper or any combination of these. They may be plain or coloured throughout the mass, solid, single or double lined, coated or uncoated.
<p><u>Include</u> such folding boxboards as:</p> <p>white lined board solid bleached board chipboard (plain or coloured) folding kraft board</p>		
<p><u>Exclude</u> non-folding board for shipping cases, which is included in code 4.32.52</p>		

<u>Survey Code</u>	<u>Grade</u>	<u>Definition</u>
4.32.41	Solid bleached board	These folding boxboards are made of bleached chemical woodpulp. They include a variety of paperboards used for packaging moist, liquid, oily or frozen foods, cosmetics, drugs, cigarette cartons etc. Some are known as "special food board". These are produced under sanitary conditions so that they can be used in direct contact with food. The boards are hard sized for moisture resistance, possess strength qualities that permit scoring and folding. Coated boards may be included.
		<u>Include</u> such paperboards as:
		cup paper or board liquid container board frozen food container board plate stock carton stock for cigarettes, cosmetics, record sleeves, etc.
4.32.42	Other folding boxboard	Folding boxboard, other than solid bleached board, manufactured from woodpulps, waste paper and any combination of these.
4.32.5	Other wrapping and packaging paper and paperboard	Paper and paperboard designed for wrapping and packaging purposes, not included elsewhere.
4.32.51	Paper	Papers such as: i) vegetable parchment, greaseproof and glassine 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 frozen, moist or greasy materials like butter, margarine, meat or fish, as pan liners, release paper, sterilising bags, parchmentising stock and imitations of parchment. <u>Exclude</u> papers that have been rendered grease-proof or waterproof by coating, impregnating or similar processes after manufacture of the paper. ii) wrapping and packaging papers not included under (i) above or under code 4.32.32

<u>Survey Code</u>	<u>Grade</u>	<u>Definition</u>
4.32.52	Paperboard	Wrapping and 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 cable paper 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 duplicating manifold onionskin airmail stationery stock ii) kraft paper used for waxing, asphalting, waterproofing, laminating, impregnating, spinning or twisting, gumming, etc. <u>Exclude</u> folding kraft board which is included in codes 4.32.4 and 4.32.42

<u>Survey Code</u>	<u>Grade</u>	<u>Definition</u>
		iii) all other grades of paper not included under earlier headings
		<u>Include</u> rope and jute paper folder stock blotting paper filter paper photographic sensitising paper etc. wallpaper base stock
4.33.2	Paperboard	Paperboards not included elsewhere, such as: i) construction paper and paperboard 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.
		<u>Exclude</u> a) papers, paper felts or boards impregnated, saturated, laminated or further manufactured in any way (i.e. converted). b) fibreboard (fibre building board) in the form of insulating board, medium hardboard and hardboard.
		ii) all other grades of paperboard not included under earlier headings
		<u>Include</u> shoe board gasket board transformer board press textile board index pressboard panel board (automotive) beer mat board trunk and suitcase board matrix board, etc.

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 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 comprend</u> la pâte thermo-mécanique
		<u>Cette rubrique ne comprend pas</u> 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	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. Elles peuvent être blanchies ou non.
1.21	dont: de bois de non-conifères	Pâtes chimico-mécaniques et mi-chimiques obtenues de bois de non-conifères.

<u>No. Code 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.
1.31	au Bisulfite écrues	Pâtes au bisulfite qui ne sont pas blanchies.
1.31.1	dont: de bois de non-conifères	Pâtes au bisulfite écrues obtenues de bois de non-conifères.
1.32	au Bisulfite blanchies et mi-blancheuses	Pâtes au bisulfite qui sont blanchies ou mi-blancheuses.
1.32.1	dont: de bois de non-conifères	Pâtes au bisulfite blanchies ou mi-blancheuses 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.
1.33	au Sulfate et à la soude écrues	Pâtes au sulfate et à la soude qui ne sont pas blanchies.
1.33.1	dont: de bois de non-conifères	Pâtes au sulfate et à la soude écrues obtenues de bois de non-conifères.
1.34	au Sulfate et à la soude blanchies ou mi-blancheuses	Pâtes au sulfate et à la soude qui sont blanchies ou mi-blancheuses.
1.34.1	dont: de bois de non-conifères	Pâtes au sulfate et à la soude blanchies ou mi-blancheuses 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.</u>	<u>Code 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.

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

3.	à Dissoudre (de bois et d'autres matériaux végétaux)	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.
3.1	dont: de bois de non-conifères	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.

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 60% de pâte mécanique (pourcentage en matière fibreuse), utilisé principalement pour l'impression des journaux, dont le grammage n'est généralement ni inférieur à 40 g/m ² ni supérieur à 60 g/m ² . <u>Cette rubrique comprend</u> papier pour impressions sur rotative
4.2	Autres papiers d'impression et d'écriture	Papiers autres que le papier journal, utilisés pour l'impression, les besoins commerciaux, l'écriture, les croquis, le dessin, etc., faits avec divers mélanges de pâtes et soumis à divers procédés de finissage. Ces papiers peuvent être non couchés et collés, calandrés, super-calandrés, glacés 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, chaux, gypse ou oxyde de zinc et souvent supercalandrés, etc. <u>Cette rubrique comprend</u> les papiers tels que: papiers pour livres et revues papier pour garnissage et habillage de boîtes papier pour machines à additionner papier pour reproduction au duplicateur papier pour bloc-notes papier pour étiquettes papier pour lithographie papier pour billets de banque papier pour cartes mécanographiques papier bible véritable ou imitation papier à lettre papier pour manifolds papier pelure surglacé papier machine papier pour affiches, etc.
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

<u>No. Code Enquête</u>	<u>Produit</u>	<u>Définition</u>
		baryum, gypse ou oxyde de zinc et souvent supercalandrés, 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, crêpé ou non, parfois gaufré, fait avec des pâtes blanchies ou écrues, parfois mélangées à de la pâte de vieux papiers. 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, crêpés 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 Enquête</u>	<u>Produit</u>	<u>Définition</u>
4.32	Papiers et cartons d'empaquetage et d'emballage	Papiers et cartons destinés à l'emballage et l'empaquetage, 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.
4.32.11.2	Blanchie	Couverture kraft pour carton ondulé faite uniquement ou principalement de pâte au sulfate blanchie.
4.32.12	Autres cartons de couverture	Cartons de couverture faits uniquement ou principalement de pâte de vieux papiers et des matériaux autres que de la pâte au sulfate.
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 la pâte de bois mi-chimique.
4.32.22	Autres cannelures	Cannelures faites uniquement ou principalement de la pâte de vieux papiers et des matériaux autres que de la pâte mi-chimique.
4.32.3	Papiers kraft d'empaquetage et d'emballage	Tous les autres papiers faits 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'empaquetage.
4.32.31	Papiers kraft pour grands sacs	Papiers kraft d'emballage et d'empaquetage blanchis et écrus utilisés dans la fabrication des sacs d'emballage à une ou plusieurs épaisseurs.
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	Cartons de tous types servant à la fabrication de boîtes pliantes. Les cartons de ce groupe doivent être résistants et posséder de bonnes 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 coloriés dans la masse, compacts, doublés une ou deux faces, couchés ou non couchés.

<u>No. Code Enquête</u>	<u>Produit</u>	<u>Définition</u>
<u>Cette rubrique comprend</u>		
des cartons pour boîtes pliants tels que: carton blanc satiné cartons compacts blanchis cartons gris à l'état naturel ou coloriés cartons kraft pliables		
<u>Cette rubrique ne comprend pas</u>		
le carton kraft pour boîtes d'emballage. Il est classé sous la rubrique 4.32.52		
4.32.41	Carton compact blanchi	Ces cartons pour boîtes pliantes sont faits avec de la pâte chimique blanchie. Ils comprennent différents cartons utilisés pour l'emballage de produits alimentaires humides, liquides, gras ou congelés, cosmétiques, drogues, etc. Ces cartons sont parfois appelés "cartons spéciaux pour l'alimentation". Ils sont fabriqués dans des conditions hygiéniques, de manière à pouvoir être mis directement au contact des produits alimentaires. Ces cartons sont collés fortement pour résister à l'humidité, possèdent des qualités de résistance permettant le rainage et le pliage. Les cartons couchés peuvent être compris dans cette rubrique.
<u>Cette rubrique comprend</u>		
les cartons servant à fabriquer: des gobelets des récipients pour liquides des récipients pour aliments congelés des assiettes des boîtes à cigarettes, à cosmétiques, jaquettes pour disques,etc.		
4.32.42	Autres cartons pour boîtes pliantes	Cartons pour boîtes pliantes, autres que le carton compact blanchi, faits avec des pâtes de bois, de vieux papiers et tout mélange de ces pâtes.
4.32.5	Autres papiers et cartons d'empaquetage et d'emballage	Papiers et cartons destinés à l'emballage et l'empaquetage, non désignés ailleurs.
4.32.51	Papiers	Papiers tels que: i) papier sulfurisé, simili-sulfurisé et papier cristal 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

<u>No. Code Enquête</u>	<u>Produit</u>	<u>Définition</u>
		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 patisserie, anti-adhésifs, sachets stérilisants, parchemins ou imitations de parchemin.
		<u>Cette rubrique ne comprend pas</u>
		les papiers qui, après fabrication, ont été rendus ingraissables ou imperméables par couchage, imprégnation ou autres procédés similaires.
		ii) papiers d'empaquetage et d'emballage ne figurant dans la rubrique i) ci-dessus ni sous le code 4.32.32
4.32.52	Cartons	Cartons d'empaquetage et d'emballage ne figurant pas dans les rubriques 4.32.11, 4.32.12, 4.32.41 et 4.32.42
		<u>Cette rubrique comprend</u>
		des cartons tels que:
		carton paille carton non pliable pour boîte d'emballage, caisse rigides, etc. carton destiné à la fabrication de mandrins, tubes et boîtes cylindriques, etc.
		<u>Cette rubrique ne comprend pas</u>
		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)
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	Papiers tels que: i) papiers minces spéciaux 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

<u>No. Code</u> <u>Enquête</u>	<u>Produit</u>	<u>Définition</u>
		perforations, la résistance, la texture serrée, l'opacité, une faible perméabilité, la pureté chimique - toutes ces caractéristiques étant liées à des utilisations spéciales.
		<u>Cette rubrique comprend</u>
		des papiers minces spéciaux tels que: papier pelure pour carbone papier pour condensateurs papier isolant papiers à cigarettes papiers mousseline pour essuyage de lentilles optiques papier pour stencils papier pour patrons papiers pour sachets de thé
		<u>Cette rubrique ne comprend pas</u>
		les papiers minces d'impression et d'écriture tels que: papier bible ou imitation papier pour reproduction au duplicateur papier pour manifolds papier pelure surglacé papier à lettre avion
ii)	papiers kraft destinés à être paraffinés, asphaltés, imperméabilisés, laminés, imprégnés, filés ou tordus, gommés, etc.	
		<u>Cette rubrique ne comprend pas</u>
		les cartons kraft pliables. Ils sont classés sous les rubriques 4.32.4 et 4.32.42
iii)	autres papiers ne figurant pas dans les précédents rubriques	
		<u>Cette rubrique comprend</u>
		des papiers tels que: papier de chanvre et de jute papier pour dossiers papier buvard papier filtre papier support photographique etc. les supports de tenture (papier) peints

<u>No.</u> <u>Code</u> <u>Enquête</u>	<u>Produit</u>	<u>Définition</u>
4.33.2	Cartons	<p>Cartons non décrits ailleurs, tels que:</p> <p>i) papiers et cartons de construction</p> <p>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.</p> <p><u>Cette rubrique ne comprend pas</u></p> <p>a) les papiers, feutres et cartons impregnés, impregnés à cœur, à plusieurs épaisseurs ou traités de toute autre manière (c'est-à-dire travaillés).</p> <p>b) les panneaux de fibres durs, mi-durs et isolants.</p> <p>ii) autres cartons non décrits ailleurs.</p> <p><u>Cette rubrique comprend</u></p> <p>des cartons tels que:</p> <p>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.</p>

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 enuesta</u>	<u>Tipo</u>	<u>Definición</u>
1.1	Mecánica	Pasta de madera, incluida la pasta de desecho, obtenida moliendo o desfibrando troncos, cuartones, 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>Inclúyase</u> la pasta termomecánica. <u>Exclúyanse</u> 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, cuartones, rollizos, astillas, etc., de especies no coníferas.
1.2	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 si 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.
1.21	de la cual: de especies no coníferas	Pasta quimiomécanica y semiquímica obtenida de especies no coníferas.

<u>Código de la enuesta</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 cocciéndolas 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). Incluyánselos en los códigos 3 y 3.1.
1.31	Al sulfito, sin blanquear	Pasta al sulfito que no se ha blanqueado.
1.31.1	de la cual: de especies no coníferas	Pasta al sulfito sin blanquear hecha de madera de especies no coníferas.
1.32	Al sulfito, semi-blanqueada y blanqueada	Pasta al sulfito que se ha blanqueado en todo o en parte.
1.32.1	de la cual: de especies no coníferas	Pasta al sulfito blanqueada o semiblanqueada hecha de madera de especies no coníferas.
	Al sulfato y a la sosa	Pasta de madera, incluidos los desechos, obtenida reduciendo mecánicamente a partículas madera de coníferas o frondosas y cocciéndolas 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). Incluyánselos en los códigos 3 y 3.1.
1.33	Al sulfato sin blanquear y a la sosa	Pasta al sulfato y a la sosa que no se ha blanqueado.
1.33.1	de la cual: de especies no coníferas	Pasta al sulfato y a la sosa sin blanquear hecha de madera de especies no coníferas.
1.34	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.
1.34.1	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 enuesta</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; incluyaselos en el código 3.

3. Pasta soluble (de madera y otras materias fibrosas)

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 celulosicos, 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.

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

<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 60% de pasta mecánica de madera (porcentaje de fibras) del tipo empleado principalmente para la impresión de diarios, que suele pesar no menos de 40 g/m ² y por lo general no más de 60 g/m ² . <u>Incluyase</u> el papel de rotativa
4.2	Otros papeles de escritura e impresión	Papeles, excepto el papel para periódicos, idóneos para la impresión y para uso comercial, escritura, grabado, dibujo, etc., 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 análogos, 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 supercalandradura, etc. <u>Incluyanse</u> los papeles como: los empleados en libros y revistas forro de cajas interior y exterior papel de calculadora papel de copia papel de escritura etiquetas papel litográfico papel moneda papel de tarjetas de tabulación papel biblia o imitación biblia papel de carta papel para copias múltiples papel cebolla papel para máquina de escribir papel para carteles, etc.
4.21	estucado	de la cual: 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>Código de la encuesta</u>	<u>Tipo</u>	<u>Definición</u>
		<p><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.</p>
		<p>de la cual:</p>
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.
		<p><u>Exclúyase</u> el papel soporte para estucar para uso propio o para la venta a otras papeleras.</p>
		<p>de la cual:</p>
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, a veces con mezcla de pasta de papel viejo. 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.
		<p><u>Inclúyanse</u> tipos de papeles crepé o no como:</p>
		<p>toallas servilletas papel facial papel higiénico guata sanitaria papeles sanitarios material limpiador</p>

<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.
4.32.11.2	blanqueado	Papel kraft para forros hecho total o principalmente de pasta al sulfato blanqueada.
4.32.12	Otros cartones de capa	Cartones de capa hechos total o principalmente de recortes y materiales que no sean pasta de sulfato.
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 hechos total o principalmente de recortes y materiales que no sean la pasta semiquímica para madera.
4.32.3	Papel kraft de envolver y empaquetar	Todos los demás tipos de papel hechos 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.
4.32.4	Cartones sólidos para cajas plegables	Todos tipos de cartón empleado en la fabricación de cajas plegables. Se exigen resistencia y buenas características de marcadura y plegadura. Se hacen de pastas de madera, papel viejo o mezclas de los dos. Se presentan naturales o coloreados, sólidos, con forro simple o doble, con estuco o no.

<u>Código de la encuesta</u>	<u>Tipo</u>	<u>Definición</u>
		<p><u>Incluyanse</u> cartones sólidos para cajas plegables como:</p> <p style="padding-left: 40px;">cartón con forro blanco cartón sólido blanqueado cartón de astillas (natural or coloreado) cartón kraft plegable</p>
		<p><u>Excluyase</u> el cartón no plegable para caja de embarque, comprendido en el código 4.32.52</p>
4.32.41	Cartón sólido blanqueado	<p>Estos cartones para cajas plegables se hacen de pasta de madera química blanqueada. Comprenden diversos cartones empleados para empaquetar alimentos húmedos, líquidos, aceitosos o congelados, cosméticos, medicamentos, etc. Los denominados "cartones especiales para alimentos" se producen en condiciones sanitarias de manera que se puedan emplear en contacto directo con los alimentos. Los cartones se presentan espesos para soportar la humedad, tienen buenas calidades de resistencia a plegaduras y marcaduras. Se puede incluir también cartones con estuco.</p>
		<p><u>Incluyanse</u> cartones como:</p> <p style="padding-left: 40px;">papel o cartón para tazas cartón para contener líquidos envases para alimentos congelados papel o cartón para platos cartón para cigarillos, cosméticos, fundas para discos,etc.</p>
4.32.42	Otros cartones sólidos para cajas plegables	<p>Cartones sólidos para cajas plegables, exceptuado el cartón sólido blanqueado, hecho de pastas de madera, papel viejo, o cualquier mezcla de los dos.</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	Papel	<p>Papeles como los siguientes:</p> <p>i) pergamo vegetal, papel impermeable a las grasas y papel glaseado (papel cristal)</p> <p>Papeles hechos de pasta de madera química pura o de mezclas de pasta de madera química, de pastas 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 manteca, la margarina, la carne y el pescado, como forros para cazuelas, papel anti-adhesivo, sacos esterilizadores, pergamo o imitaciones de pergamo.</p>

<u>Código de la encuesta</u>	<u>Tipo</u>	<u>Definición</u>
		<u>Exclúyanse</u> los papeles impermeabilizados a las grasas o el agua con procesos de estuco, impregnación o similares después de su fabricación.
		ii) papel de envolver y empacar no especificado en el anterior párrafo i) o en el 4.32.32
4.32.52	Cartón	Cartón de envolver y empaquetar no incluido en los párrafos 4.32.11, 4.32.12, 4.32.41 y 4.32.42
		<u>Inclúyanse</u> cartón de paja cartón no plegable para cajas de embarque, cajas de cartón no desmontable, etc.
		<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)
4.33	Otros papeles y cartones no incluidos en otro lugar	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.
4.33.1	Papel	Papeles como los siguientes: i) papel especial fino 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 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.
		<u>Inclúyanse</u> papeles especiales finos como: para papel carbón papel de condensador y capacitor papel aislante papel de cigarrillos papel para limpiar lentes papel para estarcidos papel para patrones papel para bolsitas de té
		<u>Exclúyanse</u> papeles de escritura e impresión finos como: papel biblia o imitación biblia papel de copia para máquina de reproducir papel cebolla papel de carta para correo aéreo

<u>Código de la encuesta</u>	<u>Tipo</u>	<u>Definición</u>
	ii)	papel kraft empleado para encerar, asfaltar, impermeabilizar, laminar, impregnar, hilar o torcer, engomar, etc.
		<u>Exclúyanse</u> los cartones sólidos para cajas plegables que están comprendidos en los códigos 4.32.4 y 4.32.42
	iii)	todos los demás tipos de papel no especificados anteriormente.
		<u>Inclúyanse</u> papel de cordeles papel de carpeta papel secante papel filtro papel sensible fotográfico, etc. base de papel mural
4.33.2	Cartón	Cartones no especificados anteriormente, como:
	i)	papeles y cartones para la construcción
		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.
		<u>Exclúyanse</u> a) los papeles, fieltros y cartones impregnados, saturados, laminados o elaborados ulteriormente de cualquier manera,
		b) los tableros de fibra (tableros para construcción) o sea, tableros aislantes, tableros semiduros y tableros duros.
	ii)	todos los demás tipos de cartón no especificados anteriormente
		<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.

- 83 -

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. Kenya
- * 7. Libyan Arab Republic
- * 8. Madagascar
- * 9. Morocco
- * 10. Mozambique
- * 11. Nigeria
- * 12. Rhodesia
- * 13. South Africa
- * 14. Sudan
- * 15. Swaziland
- * 16. Tunisia
- * 17. Uganda
- * 18. Zaire

NORTH AND CENTRAL AMERICA

- * 19. Canada
- * 20. Costa Rica
- * 21. Cuba
- * 22. Dominican Republic
- * 23. El Salvador
- * 24. Guatemala
- * 25. Jamaica
- * 26. Mexico
- * 27. Panama
- * 28. Puerto Rico
- * 29. United States

SOUTH AMERICA

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

ASIA

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

LISTE DE PAYS

AFRIQUE

- Algérie
- Angola
- Cameroun
- Egypte
- Ethiopie
- Kenya
- République arabe libyenne
- République Malagasy
- Maroc
- Mozambique
- Nigeria
- Rhodesie
- Afrique du Sud
- Soudan
- Swaziland
- Tunisie
- Ouganda
- Zaire

AMERIQUE DU NORD ET
CENTRALE

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

AMERIQUE DU SUD

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

ASIE

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

LISTA DE LOS PAISES

AFRICA

- Algeria
- Angola
- Camerún
- Egipto
- Etiopia
- Kenia
- República Árabe Libia
- Madagascar
- Marruecos
- Mozambique
- Nigeria
- Rhodesia
- Sudáfrica
- Sudan
- Swazilandia
- Túnez
- Uganda
- Zaire

AMERICA DEL NORTE Y
CENTRAL

- Canadá
- Costa Rica
- Cuba
- República Dominicana
- El Salvador
- Guatemala
- Jamaica
- México
- Panama
- Puerto Rico
- Estados Unidos

AMERICA LATINA

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

ASIA

- Bangladesh
- Birmania
- China
- Chipre
- Hong Kong
- India
- Indonesia
- Irán
- Irak
- Israel
- Japon
- Jordania
- Kampuchea, Democrática
- Corea, Rep. Pop. Dem.
- Corea, República de
- Libano
- Malasia
- Mongolia
- Nepal
- Paquistán
- Filipinas
- Singapúr
- Sri Lanka
- República Árabe Siria
- Tailandia
- Turquía
- Viet-Nam, Rep. Soc.

EUROPE

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

EUROPE

- Albanie
- Autriche
- Belgique/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

EUROPA

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

OCEANIA

- ‡ 91. Australia
- ‡ 92. New Zealand
- 93. U.S.S.R.

OCEANIE

- Australie
- Nouvelle Zélande

OCEANIA

- Australia
- Nueva Zelanda

U.R.S.S.

‡ DEVELOPED MARKET ECONOMIES - PAYS DEVELOPES 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 CÉNTRALEMENT 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. :
- Belgique/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

1.	Wood pulp for making paper and paperboard, total:	Total des pâtes de bois pour la fabrication des papiers et cartons:	Total des pastas de madera para papel y cartón
1.1	Mechanical	Pâtes mécaniques	Mecánica
1.1.1	of which non-coniferous	dont: de bois de non-conifères	de la cual: de especies no coníferas
1.2	Chemi-mechanical and semi-chemical	Pâtes chimico-mécaniques et mi-chimiques	Quimionmécanica y semiquímica
1.2.1	of which: non-coniferous	dont: de bois de non-conifères	de la cual: de especies no coníferas
1.3	Chemical, total:	Total pâtes chimiques:	Total de química
1.3.1	Unbleached sulphite	Pâtes au bisulfite écrues	Al sulfito, sin blanquear
1.31.1	of which: non-coniferous	dont: de bois de non-conifères	de la cual: de especies no coníferas
1.32	Bleached and semi-bleached sulphite	Pâtes au bisulfite mi-blanchies et blanchies	Al sulfito semi-blancueada y blanqueada
1.33	Unbleached sulphate and soda	Pâtes au sulfate et à la soude écrues	Al sulfato sin blanquear y a la sosa
1.33.1	of which: non-coniferous	dont: de bois de non-conifères	de la cual: de especies no coníferas
1.34	Bleached and semi-bleached sulphate and soda	Pâtes au sulfate et à la soude blanchies et mi-blanchies	Al sulfato semi-blancueada y a la sosa
1.34.1	of which: non-coniferous	dont: de bois de non-conifères	de la cual: de especies no coníferas
2.	Other fibre pulp for making paper and paperboard; total:	Total des pâtes de matériaux végétaux fibres 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, linters de coton, etc.)	De otras materias (carrizos, esparto, trapos, borra de algodón, etc.)
3.	Dissolving pulp (wood and other fibre 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

PAPER AND PAPERBOARD TERMINOLOGY

TERMINOLOGIE DU PAPIER ET DU CARTON

ENCLOSURE

- 4. Paper and Paperboard, total:
 - 4.1 Newsprint
 - 4.2 Other printing and writing paper, 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 and paperboard, total:
 - 4.31 Household and sanitary paper
 - 4.32 Wrapping and packaging paper total:
 - 4.32.1 Lineboard:
 - 4.32.11 Kraft liner:
 - 4.32.11.1 Un
 - 4.32.11.2 Blk
 - 4.32.12 Other linerboard:
 - 4.32.2 Fluting medium:
 - 4.32.21 Semi-chemical
 - 4.32.22 Other fluting
 - 4.32.3 Kraft wrapping and packing:
 - 4.32.31 Sack kraft
 - 4.32.32 Other kraft wr. packag. paper
 - 4.32.4 Folding boxboard:
 - 4.32.41 Solid bleached
 - 4.32.42 Other folding
 - 4.32.5 Other wrapping and packag. paperboard, n.e.s.:
 - 4.32.51 Paper
 - 4.32.52 Paperboard
 - 4.33 Other paper and paperboard, n.e.s.

TERMINOLOGIE DU PAPIER ET DU CARTON

TECHNICAL

- | | |
|---|--|
| Total papier et carton: | |
| Papier journal | |
| Total autres papiers d'impression et d'écriture | |
| Couchés: | |
| Avec bois | |
| Sans bois | |
| Non couchés: | |
| Avec bois | |
| Sans bois | |
| Total autres papiers et cartons: | |
| Papiers à usage domestique et hygiénique | |
| Papiers et cartons d'emballage et d'empaquetage | |
| Carton de couverture: | |
| Couverture kraft pour carton ondulé | |
| Ecru | |
| Blanche | |
| Autres cartons de couverture | |
| Cannelures: | |
| Mi-chimique | |
| Autres cannelures | |
| Papiers kraft d'emballage et d'empaquetage | |
| Papier kraft pour grands sacs | |
| Autres papiers kraft d'emballage et d'empaquetage | |
| Cartons pour boîtes pliantes: | |
| Carton compact blanchi | |
| Autres cartons pour boîtes pliantes | |
| Autres papiers et cartons d'emballage | |
| Papiers | |
| Cartons | |
| Total autres papiers et cartons, non décrit | |
| Papiers, n.d.a. | |

TERMINOLOGIA DE PAPEL Y CARTON

EDUCATIONAL

- | | |
|--|--|
| Total de papeles y cartones: | |
| Papel para periódicos (papel prensa) | |
| Total de otros papeles de escritura y impresión: | |
| Educados: | |
| Con pasta mecánica | |
| Sin pasta mecánica | |
| Sin estucar: | |
| Con pasta mecánica | |
| Sin pasta mecánica | |
| Total de otros papeles y cartones: | |
| Papel de uso doméstico y sanitario | |
| Papel y cartón de enolver y empaquetar: | |
| Cartón de capa: | |
| Papel kraft para forros: | |
| Sin blanquear | |
| Blanqueado | |
| Otro cartones de capa | |
| Medio para acanalar: | |
| Semicuñicco | |
| Otras maderas para acanalar | |
| Papel kraft de enolver y empaquetar: | |
| Papel kraft para sacos | |
| Otras tipos de papel kraft de enolver y empaquetar | |
| Cartones sólidos para cajas plegables: | |
| Cartón sólido blanqueado | |
| Otras cartones sólidos para cajas plegables | |
| Otras papeles y cartones de enolver y empaquetar : | |
| Papeles | |
| Cartones | |
| Total de otros papeles y cartones, no especificados anteriormente: | |
| Papeles, n.c.a. | |

	1976	1977	1978	1979	1980	1981
	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 of which market pulp	Total capacity of which market pulp
- - - 1,000 metric tons (air dry) per year - - -						
1 Country: ALGERIA						
1 Wood pulp for making paper and paperboard, total:	-	-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-
1.11 of which: non-coniferous	-	-	-	-	-	-
1.2 Chemi-mechanical and semi-chemical	-	-	-	-	-	-
1.21 of which: non-coniferous	-	-	-	-	-	-
1.3 Chemical, total:	-	-	-	-	-	-
1.31 Unbleached sulphite	-	-	-	-	-	-
1.31.1 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	-	-	-	-	-	-
1.32.1 of which: non-coniferous	-	-	-	-	-	-
1.33 Unbleached sulphite and soda	-	-	-	-	-	-
1.33.1 of which: non-coniferous	-	-	-	-	-	-
1.34 Bleached and semibleached sulphite and soda	-	-	-	-	-	-
1.34.1 of which: non-coniferous	-	-	-	-	-	-
2 Other fibre pulp for making paper and paperboard, total:	99	44	104	44	109	44
2.1 Straw	14	-	19	-	24	-
2.2 Bagasse	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	85	44	85	44	85	44
3 Dissolving pulp (wood and other fibrous raw materials)	-	-	-	-	-	-
3.1 of which: non-coniferous	-	-	-	-	-	-

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	142	147	154	157	157	157
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, 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 and paperboard, total:	84	89	96	99	99	99
4.31 Household and sanitary paper	5	5	5	5	5	5
4.32 Wrapping and packaging paper and paperboard, total:	79	84	91	94	94	94
4.32.1 Linerboard:	6	8	10	11	11	11
4.32.11 Kraft liner:	6	8	10	11	11	11
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium:	6	8	10	11	11	11
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	6	8	10	11	11	11
4.32.3 Kraft wrapping and packaging paper:	25	25	25	25	25	25
4.32.31 Sack kraft	14	14	14	14	14	14
4.32.32 Other kraft wrapping and packaging paper	11	11	11	11	11	11
4.32.4 Folding boxboard:	24	24	24	24	24	24
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	24	24	24	24	24	24
4.32.5 Other wrapping and packaging paper and paperboard, n. e.s.:	18	19	22	23	23	23
4.32.51 Paper	..	..	..	..	..	..
4.32.52 Paperboard	..	..	..	..	..	..
4.33 Other paper and paperboard, 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 1976-1981

	1976	1977	1978	1979	1980	1981
	Total capacity	Total capacity	Total capacity	Total capacity	Total capacity	Total capacity
	Total market pulp	of which market pulp	Total market pulp	of which market pulp	Total market pulp	of which market pulp
- 1,000 metric tons (air dry) per year - - - - -						
2 Country: ANGOLA						
1 Wood pulp for making paper and paperboard, total:	44	32	44	32	44	32
1.1 Mechanical	-	-	-	-	-	-
1.11 of which: non-coniferous	-	-	-	-	-	-
1.2 Chemi-mechanical and semi-chemical	-	-	-	-	-	-
1.21 of which: non-coniferous	-	-	-	-	-	-
1.3 Chemical, total:	44	32	44	32	44	32
1.31 Unbleached sulphite	-	-	-	-	-	-
1.31.1 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	-	-	-	-	-	-
1.32.1 of which: non-coniferous	-	-	-	-	-	-
1.33 Unbleached sulphate and soda	7	7	7	7	7	7
1.33.1 of which: non-coniferous	7	7	7	7	7	7
1.34 Bleached and semibleached sulphite and soda	37	32	37	32	37	37
1.34.1 of which: non-coniferous	37	32	37	32	37	37
2 Other fibre pulp for making paper and paperboard, total:	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	-	-	-	-	-	-
3 Dissolving pulp (wood and other fibrous raw materials)	-	-	-	-	-	-
3.1 of which: non-coniferous	-	-	-	-	-	-

2 Country: ANGOLA

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	19	19	19	19	19	19
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, 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 and paperboard, total:	14	14	14	14	14	14
4.31 Household and sanitary paper	1	1	1	1	1	1
4.32 Wrapping and packaging paper and paperboard, total:	13	13	13	13	13	13
4.32.1 Linerboard:	-	-	-	-	-	-
4.32.11 Kraft liner:	-	-	-	-	-	-
4.32.11.1 Undeached	-	-	-	-	-	-
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 and packaging paper:	2	2	2	2	2	2
4.32.31 Sack kraft	1	1	1	1	1	1
4.32.32 Other kraft wrapping and packaging paper	1	1	1	1	1	1
4.32.4 Folding boxboard:	2	2	2	2	2	2
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	2	2	2	2	2	2
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	9	9	9	9	9	9
4.32.51 Paper	5	5	5	5	5	5
4.32.52 Paperboard	4	4	4	4	4	4
4.33 Other paper and paperboard, n.e.s., total:	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

	1976	1977	1978	1979	1980	1981
Total capacity	of which market pulp	Total capacity	of which market pulp	Total capacity	of which market pulp	Total capacity
3 Country: CAMEROON						
- - - - - 1,000 metric tons (air dry) per year - - - - -						
1 Wood pulp for making paper and paperboard, total:	-	-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-
1.11 of which: non-coniferous	-	-	-	-	-	-
1.12 Chemi-mechanical and semi-chemical	-	-	-	-	-	-
1.21 of which: non-coniferous	-	-	-	-	-	-
1.3 Chemical, total:	-	-	-	-	-	-
1.31 Unbleached sulphite	-	-	-	-	-	-
1.31.1 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	-	-	-	-	-	-
1.32.1 of which: non-coniferous	-	-	-	-	-	-
1.33 Unbleached sulphate and soda	-	-	-	-	-	-
1.33.1 of which: non-coniferous	-	-	-	-	-	-
1.34 Bleached and semibleached sulphate and soda	-	-	-	-	-	-
1.34.1 of which: non-coniferous	-	-	-	-	-	-
2 Other fibre pulp for making paper and paperboard, total:	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	-	-	-	-	-	-
3 Dissolving pulp (wood and other fibrous raw materials)	-	-	-	-	-	-
3.1 of which: non-coniferous	-	-	-	-	-	-

3 Country: CAMEROON

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	5	5	5	5	5	5
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, 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 and paperboard, total:	5	5	5	5	5	5
4.31 Household and sanitary paper	-	-	-	-	-	-
4.32 Wrapping and packaging paper and paperboard, total:	5	5	5	5	5	5
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 and packaging paper:	-	-	-	-	-	-
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping and packaging paper	-	-	-	-	-	-
4.32.4 Folding boxboard:	-	-	-	-	-	-
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	-	-	-	-	-	-
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	5	5	5	5	5	5
4.32.51 Paper	3	3	3	3	3	3
4.32.52 Paperboard	2	2	2	2	2	2
4.33 Other paper and paperboard, n.e.s., total:	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

	1976	1977	1978	1979	1980	1981
	Total capacity of market pulp					
4 Country: EGYPT						
----- 1,000 metric tons (air dry) per year -----						
1 Wood pulp for making paper and paperboard, total:	-	-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-
1.11 of which: non-coniferous	-	-	-	-	-	-
1.2 Chemi-mechanical and semi-chemical	-	-	-	-	-	-
1.21 of which: non-coniferous	-	-	-	-	-	-
1.3 Chemical, total:	-	-	-	-	-	-
1.31 Unbleached sulphite	-	-	-	-	-	-
1.31.1 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	-	-	-	-	-	-
1.32.1 of which: non-coniferous	-	-	-	-	-	-
1.33 Unbleached sulphite and soda	-	-	-	-	-	-
1.33.1 of which: non-coniferous	-	-	-	-	-	-
1.34 Bleached and semibleached sulphite and soda	-	-	-	-	-	-
1.34.1 of which: non-coniferous	-	-	-	-	-	-
2 Other fibre pulp for making paper and paperboard, total:	64	-	64	-	64	-
2.1 Straw	44	-	44	-	44	-
2.2 Bagasse	20	-	20	-	20	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	-	-	-	-	-	-
3 Dissolving pulp (wood and other fibrous raw materials)	-	-	-	-	-	-
3.1 of which: non-coniferous	-	-	-	-	-	-

4 Country: EGYPT		1976	1977	1978	1979	1980	1981
		1,000 metric tons per year					
4 Paper and Paperboard, total:		244	244	244	244	244	244
4.1 Newsprint		-	-	-	-	-	-
4.2 Other printing and writing paper, total:		70	70	70	70	70	70
4.21 Coated:		-	-	-	-	-	-
4.21.1 Wood containing		-	-	-	-	-	-
4.21.2 Wood free		-	-	-	-	-	-
4.22 Uncoated:		70	70	70	70	70	70
4.22.1 Wood containing		-	-	-	-	-	-
4.22.2 Wood free		70	70	70	70	70	70
4.3 Other paper and paperboard, total:		174	174	174	174	174	174
4.31 Household and sanitary paper		-	-	-	-	-	-
4.32 Wrapping and packaging paper and paperboard, total:		174	174	174	174	174	174
4.32.1 Linerboard:		12	12	12	12	12	12
4.32.11 Kraft liner:		12	12	12	12	12	12
4.32.11.1 Unbleached		12	12	12	12	12	12
4.32.11.2 Bleached		-	-	-	-	-	-
4.32.12 Other linerboard		-	-	-	-	-	-
4.32.2 Fluting medium:		8	8	8	8	8	8
4.32.21 Semi-chemical		-	-	-	-	-	-
4.32.22 Other fluting medium		8	8	8	8	8	8
4.32.3 Kraft wrapping and packaging paper:		27	27	27	27	27	27
4.32.31 Sack kraft		-	-	-	-	-	-
4.32.32 Other kraft wrapping and packaging paper		27	27	27	27	27	27
4.32.4 Folding boxboard:		26	26	26	26	26	26
4.32.41 Solid bleached board		-	-	-	-	-	-
4.32.42 Other folding boxboard		26	26	26	26	26	26
4.32.5 Other wrapping and packaging paper and paperboard, n. e.s.:		101	101	101	101	101	101
4.32.51 Paper		31	31	31	31	31	31
4.32.52 Paperboard		70	70	70	70	70	70
4.33 Other paper and paperboard, n.e.s., total:		-	-	-	-	-	-
4.33.1 Paper, n.e.s.		-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.		-	-	-	-	-	-

	1976	1977	1978	1979	1980	1981
Total capacity	of which market pulp	Total capacity	of which market pulp	Total capacity	of which market pulp	Total capacity
5 Country: ETHIOPIA						
1 Wood pulp for making paper and paperboard, total:	-	-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-
1.11 of which: non-coniferous	-	-	-	-	-	-
1.2 Chemi-mechanical and semi-chemical	-	-	-	-	-	-
1.21 of which: non-coniferous	-	-	-	-	-	-
1.3 Chemical, total:	-	-	-	-	-	-
1.31 Unbleached sulphite	-	-	-	-	-	-
1.31.1 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	-	-	-	-	-	-
1.32.1 of which: non-coniferous	-	-	-	-	-	-
1.33 Unbleached sulphate and soda	-	-	-	-	-	-
1.33.1 of which: non-coniferous	-	-	-	-	-	-
1.34 Bleached and semibleached sulphate and soda	-	-	-	-	-	-
1.34.1 of which: non-coniferous	-	-	-	-	-	-
2 Other fibre pulp for making paper and paperboard, total:	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	-	-	-	-	-	-
3 Dissolving pulp (wood and other fibrous raw materials)	-	-	-	-	-	-
3.1 of which: non-coniferous	-	-	-	-	-	-

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
5 Country: ETHIOPIA						
4 Paper and Paperboard, total:	10	10	10	10	10	10
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, total:	4	4	4	4	4	4
4.21 Coated:	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncalced:	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 and paperboard, total:	6	6	6	6	6	6
4.31 Household and sanitary paper	-	-	-	-	-	-
4.32 Wrapping and packaging paper and paperboard, 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 and packaging paper:	1	1	1	1	1	1
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping and packaging paper	1	1	1	1	1	1
4.32.4 Folding boxboard:	-	-	-	-	-	-
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	-	-	-	-	-	-
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	3	3	3	3	3	3
4.32.51 Paper	2	2	2	2	2	2
4.32.52 Paperboard	1	1	1	1	1	1
4.33 Other paper and paperboard, 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 1976-1981

	1976	1977	1978	1979	1980	1981
	Total capacity of market pulp	Total capacity of market pulp	Total capacity of market pulp	Total capacity of market pulp	Total capacity of market pulp	Total capacity of market pulp
----- 1,000 metric tons (air dry) per year -----						
6 Country: KENYA						
1 Wood pulp for making paper and paperboard, total:	45	-	45	-	45	-
1.1 Mechanical	-	-	-	-	-	-
1.11 of which: non-coniferous	-	-	-	-	-	-
1.12 Chemi-mechanical and semi-chemical	-	-	-	-	-	-
1.21 of which: non-coniferous	-	-	-	-	-	-
1.3 Chemical, total:	45	-	45	-	45	-
1.31 Unbleached sulphite	-	-	-	-	-	-
1.31.1 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	-	-	-	-	-	-
1.32.1 of which: non-coniferous	-	-	-	-	-	-
1.33 Unbleached sulphate and soda	23	-	23	-	23	-
1.33.1 of which: non-coniferous	-	-	-	-	-	-
1.34 Bleached and semibleached sulphate and soda	22	-	22	-	22	-
1.34.1 of which: non-coniferous	-	-	-	-	-	-
2 Other fibre pulp for making paper and paperboard, total:	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	-	-	-	-	-	-
3 Dissolving pulp (wood and other fibrous raw materials)	-	-	-	-	-	-
3.1 of which: non-coniferous	-	-	-	-	-	-

6 Country: KENYA

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	51	51	51	51	51	51
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, total:	22	22	22	22	22	22
4.21 Coated:	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated:	22	22	22	22	22	22
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	22	22	22	22	22	22
4.3 Other paper and paperboard, total:	29	29	29	29	29	29
4.31 Household and sanitary paper	-	-	-	-	-	-
4.32 Wrapping and packaging paper and paperboard, total:	29	29	29	29	29	29
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
4.32.11.2 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 and packaging paper:	7	7	7	7	7	7
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping and packaging paper	7	7	7	7	7	7
4.32.4 Folding boxboard:	-	-	-	-	-	-
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	-	-	-	-	-	-
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	6	6	6	6	6	6
4.32.51 Paper	3	3	3	3	3	3
4.32.52 Paperboard	3	3	3	3	3	3
4.33 Other paper and paperboard, n.e.s., total:	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

	1976	1977	1978	1979	1980	1981
	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 of which market pulp	Total capacity of which market pulp
- - - - - 1,000 metric tons (air dry) per year - - - - -						
7 Country: LIBYAN ARAB REPUBLIC						
1 Wood pulp for making paper and paperboard, total:	-	-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-
1.11 of which: non-coniferous	-	-	-	-	-	-
1.2 Chemi-mechanical and semi-chemical	-	-	-	-	-	-
1.21 of which: non-coniferous	-	-	-	-	-	-
1.3 Chemical, total:	-	-	-	-	-	-
1.31 Unbleached sulphite	-	-	-	-	-	-
1.31.1 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	-	-	-	-	-	-
1.32.1 of which: non-coniferous	-	-	-	-	-	-
1.33 Unbleached sulphate and soda	-	-	-	-	-	-
1.33.1 of which: non-coniferous	-	-	-	-	-	-
1.34 Bleached and semibleached sulphate and soda	-	-	-	-	-	-
1.34.1 of which: non-coniferous	-	-	-	-	-	-
2 Other fibre pulp for making paper and paperboard, total:	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	-	-	-	-	-	-
3 Dissolving pulp (wood and other fibrous raw materials)	-	-	-	-	-	-
3.1 of which: non-coniferous	-	-	-	-	-	-

7 Country: LIBYAN ARAB REPUBLIC

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	5	5	5	5	5	5
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, 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 and paperboard, total:	5	5	5	5	5	5
4.31 Household and sanitary paper	-	-	-	-	-	-
4.32 Wrapping and packaging paper and paperboard, total:	5	5	5	5	5	5
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 and packaging paper:	1	1	1	1	1	1
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping and packaging paper	1	1	1	1	1	1
4.32.4 Folding boxboard:	2	2	2	2	2	2
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	2	2	2	2	2	2
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	2	2	2	2	2	2
4.32.51 Paper	2	2	2	2	2	2
4.32.52 Paperboard	-	-	-	-	-	-
4.33 Other paper and paperboard, n.e.s., total:	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

	1976	1977	1978	1979	1980	1981
	Total capacity of market pulp	Total capacity of market pulp	Total capacity of market pulp	Total capacity of market pulp	Total capacity of market pulp	Total capacity of market pulp
- 1,000 metric tons (air dry) per year - - - - -						
8 Country: MADAGASCAR						
1 Wood pulp for making paper and paperboard, total:	5	-	5	-	5	-
1.1 Mechanical	4	-	4	-	4	-
1.11 of which: non-coniferous	-	-	-	-	-	-
1.12 Chemi-mechanical and semi-chemical	1	-	1	-	1	-
1.21 of which: non-coniferous	1	-	1	-	1	-
1.3 Chemical, total:	-	-	-	-	-	-
1.31 Unbleached sulphite	-	-	-	-	-	-
1.31.1 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	-	-	-	-	-	-
1.32.1 of which: non-coniferous	-	-	-	-	-	-
1.33 Unbleached sulphate and soda	-	-	-	-	-	-
1.33.1 of which: non-coniferous	-	-	-	-	-	-
1.34 Bleached and semibleached sulphate and soda	-	-	-	-	-	-
1.34.1 of which: non-coniferous	-	-	-	-	-	-
2 Other fibre pulp for making paper and paperboard, total:	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	-	-	-	-	-	-
3 Dissolving pulp (wood and other fibrous raw materials)	-	-	-	-	-	-
3.1 of which: non-coniferous	-	-	-	-	-	-

8 Country: MADAGASCAR

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	12	12	12	12	12	12
4.1 Newsprint	1	1	1	1	1	1
4.2 Other printing and writing paper, 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	3	3	3	3	3	3
4.22.2 Wood free	-	-	-	-	-	-
4.3 Other paper and paperboard, total:	8	8	8	8	8	8
4.31 Household and sanitary paper	-	-	-	-	-	-
4.32 Wrapping and packaging paper and paperboard, total:	8	8	8	8	8	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 and packaging paper:	2	2	2	2	2	2
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping and packaging paper	2	2	2	2	2	2
4.32.4 Folding boxboard:	1	1	1	1	1	1
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	1	1	1	1	1	1
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	5	5	5	5	5	5
4.32.51 Paper	3	3	3	3	3	3
4.32.52 Paperboard	2	2	2	2	2	2
4.33 Other paper and paperboard, n.e.s., total:	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

	1976	1977	1978	1979	1980	1981
Total capacity	Total capacity of market pulp	Total capacity				
--- 1,000 metric tons (air dry) per year ---						
9 Country: MOROCCO						
1 Wood pulp for making paper and paperboard, total:	55	55	55	83	83	91
1.1 Mechanical	-	-	-	-	-	-
1.11 of which: non-coniferous	-	-	-	-	-	-
1.2 Chemi-mechanical and semi-chemical	-	-	-	-	-	-
1.21 of which: non coniferous	-	-	-	-	-	-
1.3 Chemical, total:	55	55	55	83	83	91
1.31 Unbleached sulphite	-	-	-	-	-	-
1.31.1 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	-	-	-	-	-	-
1.32.1 of which: non-coniferous	-	-	-	-	-	-
1.33 Unbleached sulphate and soda	-	-	-	-	-	-
1.33.1 of which: non-coniferous	-	-	-	-	-	-
1.34 Bleached and semibleached sulphate and soda	55	55	55	83	83	91
1.34.1 of which: non-coniferous	55	55	55	83	83	91
2 Other fibre pulp for making paper and paperboard, total:	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	-	-	-	-	-	-
3 Dissolving pulp (wood and other fibrous raw materials)	-	-	-	-	-	-
3.1 of which: non-coniferous	-	-	-	-	-	-

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
9 Country: MOROCCO						
4 Paper and Paperboard, total:	114	132	153	160	162	162
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, total:	21	25	27	28	28	28
4.21 Coated:	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated:	21	25	27	28	28	28
4.22.1 Wood containing	3	4	4	4	4	4
4.22.2 Wood free	18	21	23	24	24	24
4.3 Other paper and paperboard, total:	93	107	126	132	134	134
4.31 Household and sanitary paper	-	1	2	2	2	2
4.32 Wrapping and packaging paper and paperboard, total:	93	106	124	130	132	132
4.32.1 Linerboard:	13	13	20	22	23	23
4.32.11 Kraft liner:	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	13	13	20	22	23	23
4.32.2 Fluting medium:	6	6	13	15	16	16
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	6	6	13	15	16	16
4.32.3 Kraft wrapping and packaging paper:	15	15	15	15	15	15
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping and packaging paper	15	15	15	15	15	15
4.32.4 Folding boxboard:	29	29	29	29	29	29
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	29	29	29	29	29	29
4.32.5 Other wrapping and packaging paper and paperboard, n. e.s.:	30	43	47	49	49	49
4.32.51 Paper	-	..	..	..	..	..
4.32.52 Paperboard	-	..	..	..	..	..
4.33 Other paper and paperboard, n. e.s., total:	-	-	-	-	-	-
4.33.1 Paper, n. e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n. e.s.	-	-	-	-	-	-

10 Country: MOZAMBIQUE

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	11	11	11	11	11	11
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, 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 and paperboard, total:	11	11	11	11	11	11
4.31 Household and sanitary paper	-	-	-	-	-	-
4.32 Wrapping and packaging paper and paperboard, total:	11	11	11	11	11	11
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 and packaging paper:	-	-	-	-	-	-
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping and packaging paper	-	-	-	-	-	-
4.32.4 Folding boxboard:	-	-	-	-	-	-
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	-	-	-	-	-	-
4.32.5 Other wrapping and packaging paper and paperboard, n. e. s. :	11	11	11	11	11	11
4.32.51 Paper	..	..	..	..	..	..
4.32.52 Paperboard	..	..	..	..	..	..
4.33 Other paper and paperboard, n. e. s., total:	-	-	-	-	-	-
4.33.1 Paper, n. e. s.	-	-	-	-	-	-
4.33.2 Paperboard, n. e. s.	-	-	-	-	-	-

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
11 Country: NIGERIA.						
4 Paper and Paperboard, total:	13	13	13	13	13	13
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, 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 and paperboard, total:	10	10	10	10	10	10
4.31 Household and sanitary paper	-	-	-	-	-	-
4.32 Wrapping and packaging paper and paperboard, total:	10	10	10	10	10	10
4.32.1 Linerboard.	2	2	2	2	2	2
4.32.11 Kraft liner:	2	2	2	2	2	2
4.32.11.1 Unbleached	2	2	2	2	2	2
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	-	-	-	-	-	-
4.32.22 Other fluting medium	2	2	2	2	2	2
4.32.3 Kraft wrapping and packaging paper:	1	1	1	1	1	1
4.32.31 Sack kraft	1	1	1	1	1	1
4.32.32 Other kraft wrapping and packaging paper	-	-	-	-	-	-
4.32.4 Folding boxboard:	3	3	3	3	3	3
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	3	3	3	3	3	3
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	2	2	2	2	2	2
4.32.51 Paper	2	2	2	2	2	2
4.32.52 Paperboard	-	-	-	-	-	-
4.33 Other paper and paperboard, n.e.s., total:	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

	1976	1977	1978	1979	1980	1981
	Total capacity of which market pulp					
<hr/>						
12 Country: RHODESIA						
1 Wood pulp for making paper and paperboard, total:	22	-	22	-	22	-
1.1 Mechanical	14	-	14	-	14	-
1.11 of which: non-coniferous	-	-	-	-	-	-
1.12 Chemi-mechanical and semi-chemical	8	-	8	-	8	-
1.121 of which: non-coniferous	-	-	-	-	-	-
1.123 Chemical, total:	-	-	-	-	-	-
1.31 Unbleached sulphite	-	-	-	-	-	-
1.311 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	-	-	-	-	-	-
1.321 of which: non-coniferous	-	-	-	-	-	-
1.33 Unbleached sulphite and soda	-	-	-	-	-	-
1.331 of which: non-coniferous	-	-	-	-	-	-
1.34 Bleached and semibleached sulphite and soda	-	-	-	-	-	-
1.341 of which: non-coniferous	-	-	-	-	-	-
2 Other fibre pulp for making paper and paperboard, total:	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	-	-	-	-	-	-
3 Dissolving pulp (wood and other fibrous raw materials)	-	-	-	-	-	-
3.1 of which: non-coniferous	-	-	-	-	-	-

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
12 Country: RHODESIA						
4 Paper and Paperboard, total:	65	65	65	85	93	93
4.1 Newsprint	12	12	12	23	26	26
4.2 Other printing and writing paper, total:	2	2	2	11	16	16
4.21 Coated:	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated:	2	2	2	11	16	16
4.22.1 Wood containing	2	2	2	..	..	..
4.22.2 Wood free	-	-	-	..	..	..
4.3 Other paper and paperboard, total:	51	51	51	51	51	51
4.31 Household and sanitary paper	-	-	-	-	-	-
4.32 Wrapping and packaging paper and paperboard, total:	51	51	51	51	51	51
4.32.1 Lineboard:	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
4.32.11.2 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 and packaging paper:	14	14	14	14	14	14
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping and packaging paper	14	14	14	14	14	14
4.32.4 Folding boxboard:	6	6	6	6	6	6
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	6	6	6	6	6	6
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	9	9	9	9	9	9
4.32.51 Paper	3	3	3	3	3	3
4.32.52 Paperboard	6	6	6	6	6	6
4.33 Other paper and paperboard, n.e.s., total:	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

	1976	1977	1978	1979	1980	1981
	Total capacity of which market pulp	Total capacity				
13 Country: SOUTH AFRICA						
						- 1,000 metric tons (air dry) per year - - - - -
1 Wood pulp for making paper and paperboard, total:	724	6	779	4	838	13
1.1 Mechanical	300	-	343	-	351	-
1.11 of which: non-coniferous	4	-	4	-	4	-
1.2 Chemi-mechanical and semi-chemical	154	-	159	-	163	-
1.21 of which: non-coniferous	154	-	159	-	163	-
1.3 Chemical, total:	270	6	277	4	324	13
1.31 Unbleached sulphite	-	-	-	-	-	-
1.31.1 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	-	-	-	-	-	-
1.32.1 of which: non-coniferous	-	-	-	-	-	-
1.33 Unbleached sulphate and soda	174	-	180	-	204	-
1.33.1 of which: non-coniferous	44	-	44	-	60	-
1.34 Bleached and semibleached sulphate and soda	96	6	97	4	120	13
1.34.1 of which: non-coniferous	38	2	37	2	52	6
2 Other fibre pulp for making paper and paperboard, total:	108	25	108	25	108	15
2.1 Straw	-	-	-	-	-	-
2.2 Bagasse	108	25	108	25	108	15
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	-	-	-	-	-	-
3 Dissolving pulp (wood and other fibrous raw materials)	310	310	310	310	310	310
3.1 of which: non-coniferous	310	310	310	310	310	310

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	1,015	1,159	1,157	1,182	1,196	1,210
4.1 Newsprint	214	278	263	344	346	355
4.2 Other printing and writing paper, total:	140	176	182	104	104	104
4.21 Coated:	74	104	104	104	104	104
4.21.1 Wood containing	20	35	35	35	35	35
4.21.2 Wood free	54	69	69	69	69	69
4.22 Uncoated:	66	72	78	78	78	88
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	66	72	78	78	78	88
4.3 Other paper and paperboard, total:	661	705	712	734	746	751
4.31 Household and sanitary paper	67	82	82	82	82	82
4.32 Wrapping and packaging paper and paperboard, total:	569	598	605	627	639	644
4.32.1 Linerboard:	214	231	241	251	262	273
4.32.11 Kraft liner:	147	161	171	181	192	203
4.32.11.1 Unbleached	147	161	171	181	192	203
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	67	70	70	70	70	70
4.32.2 Fluting medium:	149	155	146	154	156	152
4.32.21 Semi-chemical	128	133	124	132	134	130
4.32.22 Other fluting medium	21	22	22	22	22	22
4.32.3 Kraft wrapping and packaging paper:	71	79	82	88	87	85
4.32.31 Sack kraft	49	56	59	65	68	71
4.32.32 Other kraft wrapping and packaging paper	22	23	23	23	19	14
4.32.4 Folding boxboard:	130	130	130	130	130	130
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	130	130	130	130	130	130
4.32.5 Other wrapping and packaging paper and paperboard, n. e. s. :	5	3	6	4	4	4
4.32.52 Paperboard	-	-	-	-	-	-
4.33 Other paper and Paperboard, n. e. s., total:	25	25	25	25	25	25
4.33.1 Paper, n. e. s.	10	10	10	10	10	10
4.33.2 Paperboard, n. e. s.	15	15	15	15	15	15

13 Country: SOUTH AFRICA

	1976	1977	1978	1979	1980	1981
	Total capacity of market pulp	Total capacity of market pulp	Total capacity of market pulp	Total capacity of market pulp	Total capacity of market pulp	Total capacity of market pulp
1,000 metric tons (air dry) per year - - -						
14. Country: SUDAN						
1. Wood pulp for making paper and paperboard, total:						
1.1 Mechanical	-	-	-	-	-	-
1.11 of which: non-coniferous	-	-	-	-	-	-
1.2 Chemi-mechanical and semi-chemical	-	-	-	-	-	-
1.21 of which: non-coniferous	-	-	-	-	-	-
1.3 Chemical, total:	-	-	-	-	-	-
1.31 Unbleached sulphite	-	-	-	-	-	-
1.31.1 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	-	-	-	-	-	-
1.32.1 of which: non-coniferous	-	-	-	-	-	-
1.33 Unbleached sulphite and soda	-	-	-	-	-	-
1.33.1 of which: non-coniferous	-	-	-	-	-	-
1.34 Bleached and semibleached sulphite and soda	-	-	-	-	-	-
1.34.1 of which: non-coniferous	-	-	-	-	-	-
2. Other fibre pulp for making paper and paperboard, total:	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	-	-	-	-	-	-
3. Dissolving pulp (wood and other fibrous raw materials)	-	-	-	-	-	-
3.1 of which: non-coniferous	-	-	-	-	-	-

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
14 Country: SUDAN						
4 Paper and Paperboard, total:	6	8	8	8	8	8
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, 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 and paperboard, total:	6	8	8	8	8	8
4.31 Household and sanitary paper	-	-	-	-	-	-
4.32 Wrapping and packaging paper and paperboard, total:	6	8	8	8	8	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 and packaging paper:	-	-	-	-	-	-
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping and packaging paper	-	-	-	-	-	-
4.32.4 Folding boxboard:	-	-	-	-	-	-
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	-	-	-	-	-	-
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	6	8	8	8	8	8
4.32.51 Paper	4	6	6	6	6	6
4.32.52 Paperboard	2	2	2	2	2	2
4.33 Other paper and paperboard, n.e.s., total:	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

	1976	1977	1978	1979	1980	1981
Total capacity	Total capacity of which market pulp	Total capacity				
15 Country: SWAZILAND						
1. Wood pulp for making paper and paperboard, total:	141	141	152	156	156	167
1.1 Mechanical	-	-	-	-	-	-
1.1.1 of which: non-coniferous	-	-	-	-	-	-
1.2 Chemi-mechanical and semi-chemical	-	-	-	-	-	-
1.21 of which: non-coniferous	-	-	-	-	-	-
1.3 Chemical, total:	141	141	152	156	156	167
1.31 Unbleached sulphite	-	-	-	-	-	-
1.31.1 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	-	-	-	-	-	-
1.32.1 of which: non-coniferous	-	-	-	-	-	-
1.33 Unbleached sulphate and soda	141	141	152	156	156	167
1.33.1 of which: non-coniferous	-	-	-	-	-	-
1.34 Bleached and semibleached sulphate and soda	-	-	-	-	-	-
1.34.1 of which: non-coniferous	-	-	-	-	-	-
2. Other fibre pulp for making paper and paperboard, total:	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	-	-	-	-	-	-
3 Dissolving pulp (wood and other fibrous raw materials)	-	-	-	-	-	-
3.1 of which: non-coniferous	-	-	-	-	-	-

15 Country: SWAZILAND

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	-	-	-	-	-	-
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, 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 and paperboard, total:	-	-	-	-	-	-
4.31 Household and sanitary paper	-	-	-	-	-	-
4.32 Wrapping and packaging paper and paperboard, 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 and packaging paper:	-	-	-	-	-	-
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping and packaging paper	-	-	-	-	-	-
4.32.4 Folding boxboard:	-	-	-	-	-	-
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	-	-	-	-	-	-
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	-	-	-	-	-	-
4.32.51 Paper	-	-	-	-	-	-
4.32.52 Paperboard	-	-	-	-	-	-
4.33 Other paper and paperboard, n.e.s., total:	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

	1976	1977	1978	1979	1980	1981
	Total capacity of which market pulp	Total capacity				
----- 1,000 metric tons (air dry) per year -----						
16 Country: TUNISIA						
1 Wood pulp for making paper and paperboard, total:	-	-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-
1.11 of which: non-coniferous	-	-	-	-	-	-
1.2 Chemi-mechanical and semi-chemical	-	-	-	-	-	-
1.21 of which: non-coniferous	-	-	-	-	-	-
1.3 Chemical, total:	-	-	-	-	-	-
1.31 Unbleached sulphite	-	-	-	-	-	-
1.31.1 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	-	-	-	-	-	-
1.32.1 of which: non-coniferous	-	-	-	-	-	-
1.33 Unbleached sulphate and soda	-	-	-	-	-	-
1.33.1 of which: non-coniferous	-	-	-	-	-	-
1.34 Bleached and semibleached sulphate and soda	-	-	-	-	-	-
1.34.1 of which: non-coniferous	-	-	-	-	-	-
2 Other fibre pulp for making paper and paperboard, total:	26	8	26	7	26	7
2.1 Straw	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	26	8	26	7	26	7
3 Dissolving pulp (wood and other fibrous raw materials)	-	-	-	-	-	-
3.1 of which: non-coniferous	-	-	-	-	-	-

16 Country: TUNISIA

		1976	1977	1978	1979	1980	1981
		1,000 metric tons per year					
4	Paper and Paperboard, total:	-	22	23	23	25	25
4.1	Newspoint	-	-	-	-	-	-
4.2	Other printing and writing paper, total:	22	23	23	25	25	25
4.21	Coated:	-	-	-	-	-	-
4.21.1	Wood containing	-	-	-	-	-	-
4.21.2	Wood free	-	-	-	-	-	-
4.22	Uncoated:	22	23	23	25	25	25
4.22.1	Wood containing	12	12	12	12	12	12
4.22.2	Wood free	10	11	11	13	13	13
4.3	Other paper and paperboard, total:	-	-	-	-	-	-
4.31	Household and sanitary paper	-	-	-	-	-	-
4.32	Wrapping and packaging paper and paperboard, 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 and packaging paper:	-	-	-	-	-	-
4.32.31	Sack kraft	-	-	-	-	-	-
4.32.32	Other kraft wrapping and packaging paper	-	-	-	-	-	-
4.32.4	Folding boxboard:	-	-	-	-	-	-
4.32.41	Solid bleached board	-	-	-	-	-	-
4.32.42	Other folding boxboard	-	-	-	-	-	-
4.32.5	Other wrapping and packaging paper and paperboard, n.e.s.:	-	-	-	-	-	-
4.32.51	Paper	-	-	-	-	-	-
4.32.52	Paperboard	-	-	-	-	-	-
4.33	Other paper and paperboard, n.e.s., total:	-	-	-	-	-	-
4.33.1	Paper, n.e.s.	-	-	-	-	-	-
4.33.2	Paperboard, n.e.s.	-	-	-	-	-	-

	1976	1977	1978	1979	1980	1981
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 of which market pulp	Total capacity of which market pulp	Total capacity of which market pulp
----- 1,000 metric tons (air dry) per year -----						
17 Country: UGANDA						
1 Wood pulp for making paper and paperboard, total:	-	-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-
1.11 of which: non-coniferous	-	-	-	-	-	-
1.2 Chemi-mechanical and semi-chemical	-	-	-	-	-	-
1.21 of which: non-coniferous	-	-	-	-	-	-
1.3 Chemical, total:	-	-	-	-	-	-
1.31 Unbleached sulphite	-	-	-	-	-	-
1.31.1 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	-	-	-	-	-	-
1.32.1 of which: non-coniferous	-	-	-	-	-	-
1.33 Unbleached sulphate and soda	-	-	-	-	-	-
1.33.1 of which: non-coniferous	-	-	-	-	-	-
1.34 Bleached and semibleached sulphate and soda	-	-	-	-	-	-
1.34.1 of which: non-coniferous	-	-	-	-	-	-
2 Other fibre pulp for making paper and paperboard, total:	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	-	-	-	-	-	-
3 Dissolving pulp (wood and other fibrous raw materials)	-	-	-	-	-	-
3.1 of which: non-coniferous	-	-	-	-	-	-

17 Country: UGANDA

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	7	7	7	7	7	7
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, 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 and paperboard, total:	1	1	1	1	1	1
4.31 Household and sanitary paper	-	-	-	-	-	-
4.32 Wrapping and packaging paper and paperboard, 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 and packaging paper:	-	-	-	-	-	-
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping and packaging paper	-	-	-	-	-	-
4.32.4 Folding boxboard:	-	-	-	-	-	-
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	-	-	-	-	-	-
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	-	-	-	-	-	-
4.32.51 Paper	-	-	-	-	-	-
4.32.52 Paperboard	-	-	-	-	-	-
4.33 Other paper and paperboard, n.e.s., total:	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

	1976	1977	1978	1979	1980	1981
	Total capacity	of which market pulp	Total capacity	of which market pulp	Total capacity	Total capacity
18 Country: ZAIRE						
1	Wood pulp for making paper and paperboard, total:	-	-	-	-	-
1.1	Mechanical	-	-	-	-	-
1.11	of which: non-coniferous	-	-	-	-	-
1.2	Chemi-mechanical and semi-chemical	-	-	-	-	-
1.21	of which: non-coniferous	-	-	-	-	-
1.3	Chemical, total:	-	-	-	-	-
1.31	Unbleached sulphite	-	-	-	-	-
1.31.1	of which: non-coniferous	-	-	-	-	-
1.32	Bleached and semibleached sulphite	-	-	-	-	-
1.32.1	of which: non-coniferous	-	-	-	-	-
1.33	Unbleached sulphite and soda	-	-	-	-	-
1.33.1	of which: non-coniferous	-	-	-	-	-
1.34	Bleached and semibleached sulphite and soda	-	-	-	-	-
1.34.1	of which: non-coniferous	-	-	-	-	-
2	Other fibre pulp for making paper and paperboard, total:	-	-	-	-	-
2.1	Straw	-	-	-	-	-
2.2	Begasse	-	-	-	-	-
2.3	Bamboo	-	-	-	-	-
2.4	Other (reeds, espario, rags, etc.)	-	-	-	-	-
3	Dissolving pulp (wood and other fibrous raw materials)	-	-	-	-	-
3.1	of which: non-coniferous	-	-	-	-	-

18 Country: ZAIRE

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	2	2	2	2	2	2
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, 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 and paperboard, total:	2	2	2	2	2	2
4.31 Household and sanitary paper:	-	-	-	-	-	-
4.32 Wrapping and packaging paper and paperboard, 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 and packaging paper:	-	-	-	-	-	-
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping and packaging paper	-	-	-	-	-	-
4.32.4 Folding boxboard:	-	-	-	-	-	-
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	-	-	-	-	-	-
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	2	2	2	2	2	2
4.32.51 Paper	-	-	-	-	-	-
4.32.52 Paperboard	2	2	2	2	2	2
4.33 Other paper and paperboard, n.e.s., total:	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

	1976	1977	1978	1979	1980	1981
Total capacity	Total capacity of which market pulp	Total capacity	Total capacity			
-- 1,000 metric tons (air dry) per year -- - - - -						
19 Country: CANADA (a)						
1 Wood pulp for making paper and paperboard, total:	21,843	6,729	22,052	7,055	22,415	7,225
1.1 Mechanical	8,910	261	8,876	280	8,957	280
1.11 of which: non-coniferous	..	..	..	..	..	..
1.2 Chemi-mechanical and semi-chemical	431	-	478	-	479	-
1.21 of which: non-coniferous	431	-	478	-	479	-
1.3 Chemical, total:	12,502	6,468	12,698	6,775	12,979	6,945
1.31 Unbleached sulphite	2,123	194	2,131	200	2,117	205
1.31.1 of which: non-coniferous	..	..	..	..	..	..
1.32 Bleached and semibleached sulphite	800	541	796	510	787	500
1.32.1 of which: non-coniferous	..	..	..	..	..	..
1.33 Unbleached sulphate and soda	2,170	329	2,261	370	2,375	350
1.33.1 of which: non-coniferous	..	..	..	..	..	..
1.34 Bleached and semibleached sulphate and soda	7,409	5,404	7,510	5,695	7,700	5,890
1.34.1 of which: non-coniferous	881	613	843	570	881	635
2 Other fibre pulp for making paper and paperboard, total:	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	-	-	-	-	-	-
3 Dissolving pulp (wood and other fibrous raw materials)	393	393	337	337	387	387
3.1 of which: non-coniferous	..	..	..	..	..	..

(a) As data for 1981 are not available, 1980 figures have been used.

3.2 of which: non-coniferous	..	..	..	..	..	..
3.3 of which: non-coniferous	..	..	..	..	..	..

19 Country: CANADA. (a)

	1976	1977	1978	1979	1980	1981
- - - - - 1,000 metric tons per year - - - - -						
4 Paper and Paperboard, total:	14,255	14,568	14,811	14,945	15,020	15,020
4.1 Newsprint	8,997	9,072	9,163	9,208	9,253	9,253
4.2 Other printing and writing paper, total:	1,260	1,322	1,363	1,393	1,407	1,407
4.21 Coated:	..	..	..	..	..	..
4.21.1 Wood containing	..	..	..	..	..	..
4.21.2 Wood free	..	..	..	..	..	..
4.22 Uncoated:	1,260	1,322	1,363	1,393	1,407	1,407
4.22.1 Wood containing	454	476	499	522	522	522
4.22.2 Wood free	806	846	864	871	885	885
4.3 Other paper and paperboard, total:	3,968	4,174	4,285	4,344	4,360	4,360
4.31 Household and sanitary paper	346	363	365	365	365	365
4.32 Wrapping and packaging paper and paperboard, total:	3,378	3,556	3,654	3,698	3,714	3,714
4.32.1 Linerboard:	1,414	1,566	1,631	1,654	1,658	1,658
4.32.11 Kraft liner:	1,214	1,283	1,286	1,290	1,291	1,291
4.32.11.1 Unbleached	..	..	..	..	..	..
4.32.11.2 Bleached	..	..	..	..	..	..
4.32.12 Other linerboard	200	283	345	364	367	367
4.32.2 Fluting medium:	527	566	570	573	575	575
4.32.21 Semi-chemical	426	464	467	470	472	472
4.32.22 Other fluting medium	101	102	103	103	103	103
4.32.3 Kraft wrapping and packaging paper:	630	606	611	615	615	615
4.32.31 Sack kraft	472	454	458	461	461	461
4.32.32 Other kraft wrapping and packaging paper	158	152	153	154	154	154
4.32.4 Folding boxboard:	413	431	441	453	463	463
4.32.41 Solid bleached board	105	139	139	139	139	139
4.32.42 Other folding boxboard	308	292	302	314	324	324
4.32.5 Other wrapping and packaging paper and paperboard, n. e. s. :	394	387	401	403	403	403
4.32.51 Paper	20	20	20	20	20	20
4.32.52 Paperboard	374	367	381	383	383	383
4.33 Other paper and paperboard, n. e. s., total:	244	255	266	281	281	281
4.33.1 Paper, n. e. s.	23	23	23	23	23	23
4.33.2 Paperboard, n. e. s.	221	232	243	251	251	251

(a) As data for 1981 are not available, 1980 figures have been used

	1976	1977	1978	1979	1980	1981
Total capacity	Total capacity of which market pulp	Total capacity				
20 Country: COSTA RICA						
1 Wood pulp for making paper and paperboard, total:	-	-	2	-	4	-
1.1 Mechanical	-	2	-	4	-	5
1.11 of which: non-coniferous	-	-	-	-	-	-
1.12 Chemi-mechanical and semi-chemical	-	-	-	-	-	-
1.21 of which: non-coniferous	-	-	-	-	-	-
1.3 Chemical, total:	-	-	-	-	-	-
1.31 Unbleached sulphite	-	-	-	-	-	-
1.31.1 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	-	-	-	-	-	-
1.32.1 of which: non-coniferous	-	-	-	-	-	-
1.33 Unbleached sulphate and soda	-	-	-	-	-	-
1.33.1 of which: non-coniferous	-	-	-	-	-	-
1.34 Bleached and semibleached sulphate and soda	-	-	-	-	-	-
1.34.1 of which: non-coniferous	-	-	-	-	-	-
2 Other fibre pulp for making paper and paperboard, total:	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, regs, etc.)	-	-	-	-	-	-
3 Dissolving pulp (wood and other fibrous raw materials)	-	-	-	-	-	-
3.1 of which: non-coniferous	-	-	-	-	-	-

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
20 Country: COSTA RICA						
4 Paper and Paperboard, total:	-	-	-	-	-	-
4.1 Newsprint	7	8	9	22	29	34
4.2 Other printing and writing paper, total:	-	-	-	-	-	-
4.21 Coated:	-	-	-	3	5	7
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 and paperboard, total:	7	8	9	19	24	27
4.31 Household and sanitary paper	7	8	9	16	19	19
4.32 Wrapping and packaging paper and paperboard, total:	-	-	-	3	5	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 and packaging paper:	-	-	-	-	-	-
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping and packaging paper	-	-	-	-	-	-
4.32.4 Folding boxboard:	-	-	-	-	-	-
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	-	-	-	-	-	-
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	-	-	-	-	-	-
4.32.51 Paper	-	-	-	-	-	-
4.32.52 Paperboard	-	-	-	-	-	-
4.33 Other paper and paperboard, n.e.s., total:	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

21 Country: CUBA

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	163	163	167	173	175	175
4.1 Newsprint	-	-	4	10	12	12
4.2 Other printing and writing paper, total:	35	35	35	35	35	35
4.21 Coated:	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated:	35	35	35	35	35	35
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	35	35	35	35	35	35
4.3 Other paper and paperboard, total:	128	128	128	128	128	128
4.31 Household and sanitary paper	6	6	6	6	6	6
4.32 Wrapping and packaging paper and paperboard, 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	..	..	..	..	..	..
4.32.11.2 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 and packaging paper:	12	12	12	12	12	12
4.32.31 Sack kraft	6	6	6	6	6	6
4.32.32 Other kraft wrapping and packaging paper	6	6	6	6	6	6
4.32.4 Folding boxboard:	24	24	24	24	24	24
4.32.41 Solid bleached board	2	2	2	2	2	2
4.32.42 Other folding boxboard	22	22	22	22	22	22
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	6	6	6	6	6	6
4.32.51 Paper	-	-	-	-	-	-
4.32.52 Paperboard	6	6	6	6	6	6
4.33 Other paper and paperboard, 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

	1976	1977	1978	1979	1980	1981
	Total capacity	of which market pulp	Total capacity	of which market pulp	Total capacity	of which market pulp
22 Country: DOMINICAN REPUBLIC						
1 Wood pulp for making paper and paperboard, total:	-	-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-
1.1.1 of which: non-coniferous	-	-	-	-	-	-
1.2 Chemi-mechanical' and semi-chemical	-	-	-	-	-	-
1.21 of which: non-coniferous	-	-	-	-	-	-
1.3 Chemical, total:	-	-	-	-	-	-
1.31 Unbleached sulphite	-	-	-	-	-	-
1.31.1 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	-	-	-	-	-	-
1.32.1 of which: non-coniferous	-	-	-	-	-	-
1.33 Unbleached sulphate and soda	-	-	-	-	-	-
1.33.1 of which: non-coniferous	-	-	-	-	-	-
1.34 Bleached and semibleached sulphate and soda	-	-	-	-	-	-
1.34.1 of which: non-coniferous	-	-	-	-	-	-
2 Other fibre pulp for making paper and paperboard, total:	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	-	-	-	-	-	-
3 Dissolving pulp (wood and other fibrous raw materials)	-	-	-	-	-	-
3.1 of which: non-coniferous	-	-	-	-	-	-

22 Country: DOMINICAN REPUBLIC

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	51	51	51	51	51	51
4.1 Newspaper:	-	-	-	-	-	-
4.2 Other printing and writing paper, 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 and paperboard, total:	46	46	46	46	46	46
4.31 Household and sanitary paper	-	-	-	-	-	-
4.32 Wrapping and packaging paper and paperboard, total:	42	42	42	42	42	42
4.32.1 Linerboard:	20	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	..	..	..	..	..	..
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 and packaging paper:	4	4	4	4	4	4
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping and packaging paper	4	4	4	4	4	4
4.32.4 Folding boxboard:	-	-	-	-	-	-
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	-	-	-	-	-	-
4.32.5 Other wrapping and packaging paper and paperboard, n. e. s.:	-	-	-	-	-	-
4.32.51 Paper	-	-	-	-	-	-
4.32.52 Paperboard	-	-	-	-	-	-
4.33 Other paper and paperboard, n. e. s., total:	4	4	4	4	4	4
4.33.1 Papers, n. e. s.	2	2	2	2	2	2
4.33.2 Paperboard, n. e. s.	2	2	2	2	2	2

	1976	1977	1978	1979	1980	1981
Total capacity	Total capacity of which market pulp	Total capacity				
- - - 1,000 metric tons (air dry) per year - - -						
23 Country: EL SALVADOR						
1 Wood pulp for making paper and paperboard, total:	-	-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-
1.11 of which: non-coniferous	-	-	-	-	-	-
1.2 Chemi-mechanical and semi-chemical	-	-	-	-	-	-
1.21 of which: non-coniferous	-	-	-	-	-	-
1.3 Chemical, total:	-	-	-	-	-	-
1.31 Unbleached sulphite	-	-	-	-	-	-
1.31.1 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	-	-	-	-	-	-
1.32.1 of which: non-coniferous	-	-	-	-	-	-
1.33 Unbleached sulphate and soda	-	-	-	-	-	-
1.33.1 of which: non-coniferous	-	-	-	-	-	-
1.34 Bleached and semibleached sulphate and soda	-	-	-	-	-	-
1.34.1 of which: non-coniferous	-	-	-	-	-	-
2 Other fibre pulp for making paper and paperboard, total:	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	-	-	-	-	-	-
3 Dissolving pulp (wood and other fibrous raw materials)	-	-	-	-	-	-
3.1 of which: non-coniferous	-	-	-	-	-	-

23 Country: EL SALVADOR

	1976	1977	1978	1979	1,000 metric tons per year	1980	1981
4 Paper and Paperboard, total:							
4.1 Newsprint	-	-	-	-	-	-	-
4.2 Other printing and writing paper, 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 and paperboard, total:	16	16	16	16	16	16	16
4.31 Household and sanitary paper	6	6	6	6	6	6	6
4.32 Wrapping and packaging paper and paperboard, total:	10	10	10	10	10	10	10
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 and packaging paper:	-	-	-	-	-	-	-
4.32.31 Sack kraft	-	-	-	-	-	-	-
4.32.32 Other kraft wrapping and packaging paper	-	-	-	-	-	-	-
4.32.4 Folding boxboard:	2	2	2	2	2	2	2
4.32.41 Solid bleached board	-	-	-	-	-	-	-
4.32.42 Other folding boxboard	2	2	2	2	2	2	2
4.32.5 Other wrapping and packaging paper and paperboard, n. e. s. :	8	8	8	8	8	8	8
4.32.51 Paper	-	-	-	-	-	-	-
4.32.52 Paperboard	8	8	8	8	8	8	8
4.33 Other paper and paperboard, n. e. s., total:	-	-	-	-	-	-	-
4.33.1 Paper, n. e. s.	-	-	-	-	-	-	-
4.33.2 Paperboard, n. e. s.	-	-	-	-	-	-	-

	1976	1977	1978	1979	1980	1981
Total capacity	of which market pulp	Total capacity	of which market pulp	Total capacity	of which market pulp	Total capacity
----- 1,000 metric tons (air dry) per year -----						
1 Wood pulp for making paper and paperboard, total:	-	-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-
1.11 of which: non-coniferous	-	-	-	-	-	-
1.2 Chemi-mechanical and semi-chemical	-	-	-	-	-	-
1.21 of which: non-coniferous	-	-	-	-	-	-
1.3 Chemical, total:	-	-	-	-	-	-
1.31 Unbleached sulphite	-	-	-	-	-	-
1.31.1 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	-	-	-	-	-	-
1.32.1 of which: non-coniferous	-	-	-	-	-	-
1.33 Unbleached sulphate and soda	-	-	-	-	-	-
1.33.1 of which: non-coniferous	-	-	-	-	-	-
1.34 Bleached and semibleached sulphate and soda	-	-	-	-	-	-
1.34.1 of which: non-coniferous	-	-	-	-	-	-
2 Other fibre pulp for making paper and paperboard, total:	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	-	-	-	-	-	-
3 Dissolving pulp (wood and other fibrous raw materials)	-	-	-	-	-	-
3.1 of which: non-coniferous	-	-	-	-	-	-

24 County: GUATEMALA

	1976	1977	1978	1979	1980	1981
	- - - - - 1,000 metric tons per year - - - - -					
4 Paper and Paperboard, total:	45	45	45	63	63	63
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, total:	22	22	22	25	25	25
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 and paperboard, total:	23	23	23	38	38	38
4.31 Household and sanitary paper	3	3	3	3	3	3
4.32 Wrapping and packaging paper and paperboard, total:	10	10	10	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:	..	..	..	..	..	..
4.32.21 Semi-chemical	..	..	..	..	..	..
4.32.22 Other fluting medium	..	..	..	..	..	..
4.32.3 Kraft wrapping and packaging paper:	..	..	..	..	..	..
4.32.31 Sack kraft	..	..	..	..	..	..
4.32.32 Other kraft wrapping and packaging paper	..	..	..	..	..	..
4.32.4 Folding boxboard:	..	..	..	..	..	..
4.32.41 Solid bleached board	..	..	..	..	..	..
4.32.42 Other folding boxboard	..	..	..	..	..	..
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	..	..	..	..	..	..
4.32.51 Paper	..	..	..	..	..	..
4.32.52 Paperboard	..	..	..	..	..	..
4.33 Other paper and paperboard, n.e.s., total:	10	10	10	10	10	10
4.33.1 Paper, n.e.s.	..	..	..	..	..	..
4.33.2 Paperboard, n.e.s.	..	..	..	..	..	..

25 Country: JAMAICA

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	7	7	12	12	12	12
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, 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 and paperboard, total:	7	7	12	12	12	12
4.31 Household and sanitary paper	7	7	12	12	12	12
4.32 Wrapping and packaging paper and paperboard, 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 and packaging paper:	-	-	-	-	-	-
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping and packaging paper	-	-	-	-	-	-
4.32.4 Folding boxboard:	-	-	-	-	-	-
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	-	-	-	-	-	-
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	-	-	-	-	-	-
4.32.51 Paper	-	-	-	-	-	-
4.32.52 Paperboard	-	-	-	-	-	-
4.33 Other paper and paperboard, n.e.s., total:	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

	1976	1977	1978	1979	1980	1981
Total capacity	of which market pulp	Total capacity	of which market pulp	Total capacity	of which market pulp	Total capacity
----- 1,000 metric tons (air dry) per year -----						
26 Country: MEXICO						
1 Wood pulp for making paper and paperboard, total:	554	154	554	154	571	154
1.1 Mechanical	66	-	66	-	66	-
1.1.1 of which: non-coniferous	-	-	-	-	-	-
1.1.2 Chemi-mechanical and semi-chemical	-	-	-	-	-	-
1.2.1 of which: non-coniferous	-	-	-	-	-	-
1.2.1.1 Chemical, total:	488	154	488	154	505	154
1.31 Unbleached sulphite	46	-	46	-	46	-
1.31.1 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	12	-	12	-	12	-
1.32.1 of which: non-coniferous	-	-	-	-	-	-
1.33 Unbleached sulphate and soda	234	74	234	74	251	74
1.33.1 of which: non-coniferous	-	-	-	-	-	-
1.34 Bleached and semibleached sulphate and soda	196	80	196	80	196	80
1.34.1 of which: non-coniferous	25	-	25	-	25	-
2 Other fibre pulp for making paper and paperboard, total:	324	84	365	129	535	129
2.1 Straw	19	19	19	19	19	19
2.2 Bagasse	287	55	328	100	498	100
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	18	10	18	10	18	10
3 Dissolving pulp (wood and other fibrous raw materials)	17	-	17	-	17	-
3.1 of which: non-coniferous	-	-	-	-	-	-

26 Country: MEXICO.

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	1,820	1,985	2,125	2,270	2,561	2,561
4.1 Newsprint	102	132	182	207	282	282
4.2 Other printing and writing paper, total:	305	368	406	436	470	470
4.21 Coated:	65	80	80	80	80	80
4.21.1 Wood containing	29	34	34	34	34	34
4.21.2 Wood free	36	46	46	46	46	46
4.22 Uncoated:	240	288	326	356	390	390
4.22.1 Wood containing	35	38	40	42	45	45
4.22.2 Wood free	205	250	286	314	345	345
4.3 Other paper and paperboard, total:	1,413	1,485	1,537	1,627	1,809	1,809
4.31 Household and sanitary paper	150	157	173	173	173	173
4.32 Wrapping and packaging paper and paperboard, total:	1,193	1,226	1,237	1,327	1,509	1,509
4.32.1 Linerboard:	497	506	506	536	668	668
4.32.11 Kraft liner:	55	55	55	85	225	225
4.32.11.1 Unbleached	..	..	..	..	..	..
4.32.11.2 Bleached	..	..	..	..	..	..
4.32.12 Other linerboard	442	451	451	451	443	443
4.32.2 Fluting medium:	202	205	215	275	275	275
4.32.21 Semi-chemical	..	..	..	..	..	..
4.32.22 Other fluting medium	..	..	..	..	..	..
4.32.3 Kraft wrapping and packaging paper:	183	194	195	195	195	195
4.32.31 Sack kraft	133	144	145	145	145	145
4.32.32 Other kraft wrapping and packaging paper	50	50	50	50	50	50
4.32.4 Folding boxboard:	198	198	198	248	248	248
4.32.41 Solid bleached board	35	35	35	35	40	40
4.32.42 Other folding boxboard	163	163	163	203	203	203
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	113	123	123	123	123	123
4.32.51 Paper	..	..	..	..	..	..
4.32.52 Paperboard	..	..	..	..	..	..
4.33 Other paper and paperboard, n.e.s., total:	70	102	127	127	127	127
4.33.1 Paper, n.e.s.	..	..	..	..	..	..
4.33.2 Paperboard, n.e.s.	..	..	..	..	..	..

27 Country: PANAMA

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	28	29	30	31	31	31
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, 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 and paperboard, total:	28	29	30	31	31	31
4.31 Household and sanitary paper	5	6	7	8	8	8
4.32 Wrapping and packaging paper and paperboard, total:	23	23	23	23	23	23
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:	20	20	20	20	20	20
4.32.21 Semi-chemical	..	..	..	..	..	..
4.32.22 Other fluting medium	..	..	..	..	..	..
4.32.3 Kraft wrapping and packaging paper:	-	-	-	-	-	-
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping and packaging paper	-	-	-	-	-	-
4.32.4 Folding boxboard:	-	-	-	-	-	-
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	-	-	-	-	-	-
4.32.5 Other wrapping and packaging paper and paperboard, n. e. s.:	3	3	3	3	3	3
4.33 Other paper and paperboard, n. e. s., total:	-	-	-	-	-	-
4.33.1 Paper, n. e. s.	-	-	-	-	-	-
4.33.2 Paperboard, n. e. s.	-	-	-	-	-	-

28 Country: PUERTO RICO

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	54	54	54	54	54	54
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, 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 and paperboard, total:	54	54	54	54	54	54
4.31 Household and sanitary paper	-	-	-	-	-	-
4.32 Wrapping and packaging paper and paperboard, total:	54	54	54	54	54	54
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:	54	54	54	54	54	54
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	54	54	54	54	54	54
4.32.3 Kraft wrapping and packaging paper:	-	-	-	-	-	-
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping and packaging paper	-	-	-	-	-	-
4.32.4 Folding boxboard:	-	-	-	-	-	-
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	-	-	-	-	-	-
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	-	-	-	-	-	-
4.32.51 Paper	-	-	-	-	-	-
4.32.52 Paperboard	-	-	-	-	-	-
4.33 Other paper and paperboard, n.e.s., total:	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

	1976	1977	1978	1979	1980	1981
Total capacity	of which market pulp	Total capacity	of which market pulp	Total capacity	of which market pulp	Total capacity
29 Country: UNITED STATES						
			- - - 1,000 metric tons (air dry) per year - - -			
1 Wood pulp for making paper and paperboard, total:	43,158	3,567	44,568	3,843	45,606	3,955
1.1 Mechanical	4,509	105	4,641	105	4,783	105
1.11 of which: non-coniferous	..	..	..	..	..	..
1.2 Chemi-mechanical and semi-chemical	3,979	-	4,148	-	4,227	-
1.21 of which: non-coniferous	..	..	..	..	..	..
1.3 Chemical, total:	34,670	3,462	35,779	3,738	36,596	3,850
1.31 Unbleached sulphite	424	9	425	7	425	7
1.31.1 of which: non-coniferous	..	..	..	..	..	..
1.32 Bleached and semibleached sulphite	1,751	375	1,641	390	1,632	391
1.32.1 of which: non-coniferous	..	..	..	..	..	..
1.33 Unbleached sulphate and soda	17,401	187	17,788	162	17,933	160
1.33.1 of which: non-coniferous	..	..	..	..	..	..
1.34 Bleached and semibleached sulphate and soda	15,094	2,891	15,924	3,179	16,606	3,292
1.34.1 of which: non-coniferous	6,600	1,180	6,877	1,180	7,124	1,210
2 Other fibre pulp for making paper and paperboard, total:	656	-	675	-	688	-
2.1 Straw	..	..	..	..	..	..
2.2 Bagasse	..	..	..	..	..	..
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	..	-	..	-	..	..
3 Dissolving pulp (wood and other fibrous raw materials)	1,481	1,318	1,481	1,318	1,481	1,318
3.1 of which: non-coniferous	-	-	-	-	-	-

29 Country: UNITED STATES

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	58,064	59,678	60,932	62,060	63,446	64,258
4.1 Newsprint	3,604	3,765	3,857	3,971	4,414	4,414
4.2 Other printing and writing paper, total:	12,820	13,229	13,501	13,652	13,876	14,041
4.21 Coated:	3,770	3,870	3,894	3,945	3,964	3,964
4.21.1 Wood containing	1,983	2,055	2,057	2,085	2,093	2,093
4.21.2 Wood free	1,787	1,815	1,837	1,860	1,871	1,871
4.22 Uncoated:	9,049	9,359	9,607	9,707	9,911	10,077
4.22.1 Wood containing	1,216	1,220	1,222	1,223	1,223	1,223
4.22.2 Wood free	7,833	8,138	8,385	8,484	8,688	8,854
4.3 Other paper and paperboard, total:	41,640	42,684	43,574	44,437	45,157	45,803
4.31 Household and sanitary paper	4,093	4,155	4,287	4,394	4,454	4,464
4.32 Wrapping and packaging paper and paperboard, total:	33,115	33,967	34,684	35,430	36,041	36,677
4.32.1 Linerboard:	12,676	13,183	13,415	13,684	13,924	14,381
4.32.11 Kraft liner:	12,357	12,832	13,056	13,317	13,556	13,945
4.32.11.1 Unbleached	12,260	12,734	12,958	13,219	13,458	13,847
4.32.11.2 Bleached	97	98	98	98	98	98
4.32.12 Other linerboard	319	350	358	367	368	436
4.32.2 Fluting medium:	5,747	5,843	5,978	6,071	6,226	6,373
4.32.21 Semi-chemical	4,302	4,431	4,519	4,587	4,677	4,781
4.32.22 Other fluting medium	1,445	1,413	1,460	1,484	1,549	1,592
4.32.3 Kraft wrapping and packaging paper:	4,724	4,777	4,797	4,804	4,836	4,868
4.32.31 Sack kraft	1,280	1,295	1,300	1,301	1,311	1,319
4.32.32 Other kraft wrapping and packaging paper	3,444	3,483	3,497	3,503	3,525	3,549
4.32.4 Folding boxboard:	6,312	6,442	6,694	7,031	7,199	7,199
4.32.41 Solid bleached board	3,426	3,523	3,713	3,945	3,999	3,999
4.32.42 Other folding boxboard	2,887	2,919	2,981	3,086	3,200	3,200
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	3,655	3,722	3,799	3,840	3,856	3,856
4.32.51 Paper	218	220	220	221	221	221
4.32.52 Paperboard	3,437	3,503	3,579	3,619	3,635	3,635
4.33 Other paper and paperboard, n.e.s., total:	4,432	4,561	4,603	4,613	4,662	4,662
4.33.1 Paper, n.e.s.	1,140	1,208	1,234	1,240	1,243	1,243
4.33.2 Paperboard, n.e.s.	3,291	3,353	3,369	3,373	3,419	3,419

	1976	1977	1978	1979	1980	1981
Total capacity	Total capacity of market pulp					
30 Country: ARGENTINA						
1 Wood pulp for making paper and paperboard, total:						
1.1 Mechanical	375	20	407	25	520	35
1.1.1 of which: non-coniferous	49	5	49	5	55	10
1.1.2 Chemi-mechanical and semi-chemical	49	5	49	5	50	5
1.2 Chemi-mechanical and semi-chemical	102	10	111	10	200	10
1.2.1 of which: non-coniferous	102	10	111	10	200	10
1.2.1.1 Mechanical	224	5	247	10	265	15
1.2.1.2 Chemical, total:	-	-	-	-	-	-
1.2.1.3 Unbleached sulphite	-	-	-	-	-	-
1.2.1.4 Bleached and semi-bleached sulphite	-	-	-	-	-	-
1.2.1.5 Bleached sulphite and soda	-	-	-	-	-	-
1.2.1.6 Other	-	-	-	-	-	-
1.2.2 of which: non-coniferous	40	..	40	..	40	..
1.2.2.1 Mechanical	10	..	10	..	10	..
1.2.2.2 Chemical, total:	101	..	124	..	135	..
1.2.2.3 Unbleached sulphite and soda	31	..	41	..	45	..
1.2.2.4 Bleached and semi-bleached sulphite and soda	82	..	82	..	90	..
1.2.2.5 Other	68	..	68	..	75	..
2 Other fibre pulp for making paper and paperboard, total:	61	-	61	-	65	-
2.1 Straw	..	-	..	-	..	-
2.2 Bagasse	51	-	51	-	55	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	..	-	..	-	..	..
3 Dissolving pulp (wood and other fibrous raw materials)	10	..	10	..	10	..
3.1 of which: non-coniferous	-	-	-	-	-	-

30 Country: ARGENTINA

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	920	970	1,085	1,175	1,235	1,310
4.1 Newsprint	-	-	50	90	105	140
4.2 Other printing and writing paper, total:	185	195	215	235	250	250
4.21 Coated:	40	40	45	55	60	65
4.21.1 Wood containing	32	32	35	40	45	50
4.21.2 Wood free	8	8	10	15	15	15
4.22 Uncoated:	145	155	170	180	190	195
4.22.1 Wood containing	10	10	15	15	15	15
4.22.2 Wood free	135	145	155	165	175	180
4.3 Other paper and paperboard, total:	735	775	820	860	880	910
4.31 Household and sanitary paper	50	50	55	55	55	55
4.32 Wrapping and packaging paper and paperboard, total:	610	640	675	695	725	745
4.32.1 Linerboard:	105	115	125	130	135	145
4.32.11 Kraft liner:	35	40	45	50	55	60
4.32.11.1 Unbleached	30	35	40	45	50	55
4.32.11.2 Bleached	5	5	5	5	5	5
4.32.12 Other linerboard	70	75	80	80	80	85
4.32.2 Fluting medium:	70	75	80	85	90	95
4.32.21 Semi-chemical	20	20	25	25	25	30
4.32.22 Other fluting medium	50	55	55	60	65	65
4.32.3 Kraft wrapping and packaging paper:	110	115	125	135	140	145
4.32.31 Sack kraft	85	90	95	100	105	110
4.32.32 Other kraft wrapping and packaging paper	25	25	30	35	35	35
4.32.4 Folding boxboard:	50	55	60	60	65	65
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	50	55	60	60	65	65
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	275	280	285	290	295	300
4.32.51 Paper	90	95	95	95	100	100
4.32.52 Paperboard	185	185	190	195	195	200
4.33 Other paper and paperboard, n.e.s., total:	75	85	90	95	100	105
4.33.1 Paper, n.e.s.	40	45	50	50	55	55
4.33.2 Paperboard, n.e.s.	35	40	40	45	50	50

	1976	1977	1978	1979	1980	1981
	Total capacity	of which market pulp	Total capacity	of which market pulp	Total capacity	of which market pulp
31 Country: BOLIVIA						
1 Wood pulp for making paper and paperboard, total:	-	-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-
1.11 of which: non-coniferous	-	-	-	-	-	-
1.2 Chemi-mechanical and semi-chemical	-	-	-	-	-	-
1.21 of which: non-coniferous	-	-	-	-	-	-
1.3 Chemical, total:	-	-	-	-	-	-
1.31 Unbleached sulphite	-	-	-	-	-	-
1.31.1 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	-	-	-	-	-	-
1.32.1 of which: non-coniferous	-	-	-	-	-	-
1.33 Unbleached sulphate and soda	-	-	-	-	-	-
1.33.1 of which: non-coniferous	-	-	-	-	-	-
1.34 Bleached and semibleached sulphate and soda	-	-	-	-	-	-
1.34.1 of which: non-coniferous	-	-	-	-	-	-
2 Other fibre pulp for making paper and paperboard, total:	1	-	1	-	1	-
2.1 Straw	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	1	-	1	-	1	-
3 Dissolving pulp (wood and other fibrous raw materials)	-	-	-	-	-	-
3.1 of which: non-coniferous	-	-	-	-	-	-

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
31 Country: BOLIVIA						
4 Paper and Paperboard, total:	1	1	1	1	1	1
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, 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 and paperboard, total:	1	1	1	1	1	1
4.31 Household and sanitary paper	-	-	-	-	-	-
4.32 Wrapping and packaging paper and paperboard, 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:	-	-	-	-	-	-
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	-	-	-	-	-	-
4.32.3 Kraft wrapping and packaging paper:	-	-	-	-	-	-
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping and packaging paper	-	-	-	-	-	-
4.32.4 Folding boxboard:	-	-	-	-	-	-
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	-	-	-	-	-	-
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	1	1	1	1	1	1
4.32.51 Paper	-	-	-	-	-	-
4.32.52 Paperboard	1	1	1	1	1	1
4.33 Other paper and paperboard, n.e.s., total:	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

	1976	1977	1978	1979	1980	1981
Total capacity	of which market pulp	Total capacity	of which market pulp	Total capacity	of which market pulp	Total capacity
----- 1,000 metric tons (air dry) per year -----						
32 Country: BRAZIL						
1 Wood pulp for making paper and paperboard, total:	1,881	551	2,264	761	2,752	1,123
1.1 Mechanical	125	42	127	42	127	42
1.11 of which: non-coniferous	36	-	36	-	36	-
1.2 Chemi-mechanical and semi-chemical	158	-	213	-	234	-
1.21 of which: non-coniferous	117	-	117	-	125	-
1.3 Chemical, total:	1,598	509	1,924	719	2,391	1,081
1.31 Unbleached sulphite	60	15	67	15	70	15
1.31.1 of which: non-coniferous	5	-	5	-	5	-
1.32 Bleached and semibleached sulphite	65	3	65	3	35	3
1.32.1 of which: non-coniferous	14	-	14	-	14	-
1.33 Unbleached sulphate and soda	767	203	811	210	932	233
1.33.1 of which: non-coniferous	296	135	296	140	296	145
1.34 Bleached and semibleached sulphate and soda	706	283	981	491	1,354	830
1.34.1 of which: non-coniferous	672	270	935	473	1,304	812
2 Other fibre pulp for making paper and paperboard, total:	195	12	224	14	292	14
2.1 Straw	-	-	-	-	-	-
2.2 Bagasse	127	12	136	14	140	14
2.3 Bamboo	48	-	62	-	69	-
2.4 Other (reeds, esparto, rags, etc.)	20	-	26	-	83	-
3 Dissolving pulp (wood and other fibrous raw materials)	42	10	42	10	42	10
3.1 of which: non-coniferous	-	-	-	-	-	-

32 Country: BRAZIL	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	2,584	2,838	3,196	3,515	3,906	4,086
4.1 Newsprint	127	127	127	142	253	287
4.2 Other printing and writing paper, total:	527	595	614	624	624	670
4.21 Coated:	37	40	40	40	40	45
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	37	40	40	40	40	45
4.22 Uncoated:	490	555	574	584	584	625
4.22.1 Wood containing	25	28	29	29	29	31
4.22.2 Wood free	465	527	545	555	555	594
4.3 Other paper and paperboard, total:	1,930	2,116	2,455	2,749	3,029	3,129
4.31 Household and sanitary paper:	199	257	276	285	285	294
4.32 Wrapping and packaging paper and paperboard, total:	1,509	1,622	1,916	2,193	2,469	2,559
4.32.1 Linerboard:	301	334	428	529	730	787
4.32.11 Kraft liner:	226	237	321	416	616	673
4.32.11.1 Unbleached	226	237	321	416	616	673
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	75	97	107	113	114	114
4.32.2 Fluting medium:	293	318	336	385	410	417
4.32.21 Semi-chemical	293	318	336	385	410	417
4.32.22 Other fluting medium	-	-	-	-	-	-
4.32.3 Kraft wrapping and packaging paper:	496	528	694	815	861	882
4.32.31 Sack kraft	282	300	375	471	487	503
4.32.32 Other kraft wrapping and packaging paper	214	228	319	344	374	379
4.32.4 Folding boxboard:	219	231	239	242	243	243
4.32.41 Solid bleached board	96	96	96	96	96	96
4.32.42 Other folding boxboard	123	135	143	146	147	147
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	200	211	219	222	225	230
4.32.51 Paper	200	211	219	222	225	230
4.32.52 Paperboard	-	-	-	-	-	-
4.33 Other paper and paperboard, n.e.s., total:	222	237	263	271	275	276
4.33.1 Paper, n.e.s.	125	133	156	163	167	168
4.33.2 Paperboard, n.e.s.	97	104	107	108	108	108

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976-1981

	1976	1977	1978	1979	1980	1981
	Total capacity of market pulp					
33 Country: CHILE						
1 Wood pulp for making paper and paperboard, total:	699	454	719	439	719	427
1.1 Mechanical	151	-	151	-	151	-
1.11 of which: non-coniferous	-	-	-	-	-	-
1.2 Chemi-mechanical and semi-chemical	-	-	-	-	-	-
1.21 of which: non-coniferous	-	-	-	-	-	-
1.3 Chemical, total:	548	454	568	439	568	427
1.31 Unbleached sulphite	-	-	-	-	-	-
1.31.1 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	18	-	18	-	18	-
1.32.1 of which: non-coniferous	-	-	-	-	-	-
1.33 Unbleached sulphate and soda	284	247	265	229	284	245
1.33.1 of which: non-coniferous	..	..	..	..	..	..
1.34 Bleached and semibleached sulphate and soda	246	207	285	210	266	182
1.34.1 of which: non-coniferous	9	-	3	-	3	-
2 Other fibre pulp for making paper and paperboard, total:	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	-	-	-	-	-	-
3 Dissolving pulp (wood and other fibrous raw materials)	-	-	-	-	-	-
3.1 of which: non-coniferous	-	-	-	-	-	-

33 Country: CHILE

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	-	-	-	-	-	-
4.1 Newsprint	324	317	330	392	396	484
4.2 Other printing and writing paper, total:	134	137	139	144	144	228
4.21 Coated:	79	75	89	120	120	120
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated:	79	75	89	120	120	120
4.22.1 Wood containing	4	4	5	5	5	5
4.22.2 Wood free	75	71	84	115	115	115
4.3 Other paper and paperboard, total:	111	105	102	128	132	136
4.31 Household and sanitary paper	20	18	19	20	22	24
4.32 Wrapping and packaging paper and paperboard, total:	90	86	82	106	108	110
4.32.1 Linerboard:	19	19	16	18	18	18
4.32.11 Kraft liner:	15	15	12	14	14	14
4.32.11.1 Unbleached	15	15	12	14	14	14
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	4	4	4	4	4	4
4.32.2 Fluting medium:	13	13	14	16	16	16
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	13	13	14	16	16	16
4.32.3 Kraft wrapping and packaging paper:	30	26	23	36	38	40
4.32.31 Sack kraft	18	16	19	25	25	25
4.32.32 Other kraft wrapping and packaging paper	12	10	4	11	13	15
4.32.4 Folding boxboard:	22	22	23	30	30	30
4.32.41 Solid bleached board	4	4	4	4	4	4
4.32.42 Other folding boxboard	18	18	19	26	26	26
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	6	6	6	6	6	6
4.32.51 Paper	-	-	-	-	-	-
4.32.52 Paperboard	6	6	6	6	6	6
4.33 Other paper and paperboard, n.e.s., total:	1	1	1	2	2	2
4.33.1 Paper, n.e.s.	1	1	1	2	2	2
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

	1976	1977	1978	1979	1980	1981
Total capacity	Total of which market pulp	Total of which market pulp	Total of which market pulp	Total capacity	Total capacity	Total capacity
----- 1,000 metric tons (air dry) per year -----						
34 Country: COLOMBIA						
1 Wood pulp for making paper and paperboard, total:	152	-	158	-	174	-
1.1 Mechanical	-	-	-	-	-	-
1.11 of which: non-coniferous	-	-	-	-	-	-
1.2 Chemi-mechanical and semi-chemical	42	-	48	-	48	-
1.21 of which: non-coniferous	34	-	40	-	40	-
1.3 Chemical, total:	110	-	110	-	126	-
1.31 Unbleached sulphite	-	-	-	-	-	-
1.31.1 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	-	-	-	-	-	-
1.32.1 of which: non-coniferous	-	-	-	-	-	-
1.33 Unbleached sulphate and soda	110	-	110	-	126	-
1.33.1 of which: non-coniferous	85	-	85	-	99	-
1.34 Bleached and semibleached sulphate and soda	-	-	-	-	-	-
1.34.1 of which: non-coniferous	-	-	-	-	-	-
2 Other fibre pulp for making paper and paperboard, total:	79	-	85	-	93	-
2.1 Straw	-	-	-	-	-	-
2.2 Bagasse	78	-	84	-	92	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	1	-	1	-	1	-
3 Dissolving pulp (wood and other fibrous raw materials)	-	-	-	-	-	-
3.1 of which: non-coniferous	-	-	-	-	-	-

34 Country: COLOMBIA

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	356	369	384	405	431	440
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, total:	70	77	85	93	101	101
4.21 Coated:	7	8	9	10	11	11
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	7	8	9	10	11	11
4.22 Uncoated:	63	69	76	83	90	90
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	63	69	76	83	90	90
4.3 Other paper and paperboard, total:	286	292	299	312	330	339
4.31 Household and sanitary paper	20	26	37	48	51	52
4.32 Wrapping and packaging paper and paperboard, total:	255	255	251	258	273	281
4.32.1 Linerboard:	81	86	86	89	98	98
4.32.11 Kraft liner:	74	78	78	81	90	90
4.32.11.1 Unbleached	74	78	78	81	90	90
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	7	8	8	8	8	8
4.32.2 Fluting medium:	50	53	55	55	58	58
4.32.21 Semi-chemical	49	53	55	55	58	58
4.32.22 Other fluting medium	1	-	-	-	-	-
4.32.3 Kraft wrapping and packaging paper:	47	51	54	54	59	61
4.32.31 Sack kraft	42	44	46	46	49	51
4.32.32 Other kraft wrapping and packaging paper	5	7	8	8	10	10
4.32.4 Folding boxboard:	42	45	46	48	50	55
4.32.41 Solid bleached board	3	3	3	3	3	3
4.32.42 Other folding boxboard	39	42	43	45	47	52
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	35	20	10	12	8	9
4.32.51 Paper	24	15	10	12	8	9
4.32.52 Paperboard	11	5	-	-	-	-
4.33 Other paper and paperboard, n.e.s., total:	11	11	11	6	6	6
4.33.1 Paper, n.e.s.	4	3	3	3	3	3
4.33.2 Paperboard, n.e.s.	7	8	8	3	3	3

	1976	1977	1978	1979	1980	1981
	Total capacity of market pulp					
35 Country: ECUADOR						
1 Wood pulp for making paper and paperboard, total:	-	-	-	-	-	-
1.1 Mechanical	-	-	-	4	-	5
1.11 of which: non-coniferous	-	-	-	-	-	-
1.2 Chemi-mechanical and semi-chemical	-	-	-	-	-	-
1.21 of which: non-coniferous	-	-	-	-	-	-
1.3 Chemical, total:	-	-	-	-	-	-
1.31 Unbleached sulphite	-	-	-	-	-	-
1.31.1 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	-	-	-	-	-	-
1.32.1 of which: non-coniferous	-	-	-	-	-	-
1.33 Unbleached sulphate and soda	-	-	-	-	-	-
1.33.1 of which: non-coniferous	-	-	-	-	-	-
1.34 Bleached and semibleached sulphate and soda	-	-	-	-	-	-
1.34.1 of which: non-coniferous	-	-	-	-	-	-
2 Other fibre pulp for making paper and paperboard, total:	15	15	15	15	15	15
2.1 Straw	-	-	-	-	-	-
2.2 Bagasse	15	-	15	-	15	15
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	-	-	-	-	-	-
3 Dissolving pulp (wood and other fibrous raw materials)	-	-	-	-	-	-
3.1 of which: non-coniferous	-	-	-	-	-	-

35 Country: ECUADOR

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	40	46	50	53	59	64
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, total:	6	6	7	8	9	10
4.21 Coated:	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated:	6	6	7	8	9	10
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	6	6	7	8	9	10
4.3 Other paper and paperboard, total:	34	40	43	45	50	54
4.31 Household and sanitary paper	8	14	16	17	18	18
4.32 Wrapping and packaging paper and paperboard, total:	26	26	27	28	32	36
4.32.1 Linerboard:	2	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	2	2	2	2	2	2
4.32.2 Fluting medium:	2	2	2	2	4	6
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	2	2	2	2	4	6
4.32.3 Kraft wrapping and packaging paper:	17	17	17	17	18	20
4.32.31 Sack kraft	12	12	12	12	12	13
4.32.32 Other kraft wrapping and packaging paper	5	5	5	5	6	7
4.32.4 Folding boxboard:	-	-	-	-	-	-
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	-	-	-	-	-	-
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	5	5	6	7	8	8
4.32.51 Paper	5	5	6	7	8	8
4.32.52 Paperboard	-	-	-	-	-	-
4.33 Other paper and paperboard, n.e.s., total:	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

	1976	1977	1978	1979	1980	1981
Total capacity	Total capacity of which market pulp	Total capacity				
----- 1,000 metric tons (air dry) per year -----						
36 Country: PARAGUAY						
1 Wood pulp for making paper and paperboard, total:	-	-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-
1.11 of which: non-coniferous	-	-	-	-	-	-
1.12 Chemi-mechanical and semi-chemical	-	-	-	-	-	-
1.21 of which: non-coniferous	-	-	-	-	-	-
1.3 Chemical, total:	-	-	-	-	-	-
1.31 Unbleached sulphite	-	-	-	-	-	-
1.31.1 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	-	-	-	-	-	-
1.32.1 of which: non-coniferous	-	-	-	-	-	-
1.33 Unbleached sulphate and soda	-	-	-	-	-	-
1.33.1 of which: non-coniferous	-	-	-	-	-	-
1.34 Bleached and semibleached sulphate and soda	-	-	-	-	-	-
1.34.1 of which: non-coniferous	-	-	-	-	-	-
2 Other fibre pulp for making paper and paperboard, total:	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	-	-	-	-	-	-
3 Dissolving pulp (wood and other fibrous raw materials)	-	-	-	-	-	-
3.1 of which: non-coniferous	-	-	-	-	-	-

36 Country: PARAGUAY

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	1	1	4	7	7	7
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, total:	-	-	1	2	2	2
4.21 Coated:	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated:	-	-	1	2	2	2
4.22.1 Wood containing	-	-	1	2	2	2
4.22.2 Wood free	-	-	-	-	-	-
4.3 Other paper and paperboard, total:	1	1	3	5	5	5
4.31 Household and sanitary paper	-	-	1	2	2	2
4.32 Wrapping and packaging paper and paperboard, total:	1	1	2	3	3	3
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 and packaging paper:	-	-	-	-	-	-
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping and packaging paper	-	-	-	-	-	-
4.32.4 Folding boxboard:	-	-	-	-	-	-
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	-	-	-	-	-	-
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	1	1	2	3	3	3
4.32.51 Paper	..	..	..	..	..	..
4.32.52 Paperboard	..	..	..	..	..	..
4.33 Other paper and paperboard, n.e.s., total:	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

37 Country: PERU

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	190	200	278	313	343	343
4.1 Newsprint	-	-	60	90	110	110
4.2 Other printing and writing paper, total:	38	46	51	59	62	62
4.21 Coated:	6	6	6	12	12	12
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	6	6	6	12	12	12
4.22 Uncoated:	32	40	45	47	50	50
4.22.1 Wood containing	10	10	10	10	10	10
4.22.2 Wood free	22	30	35	37	40	40
4.3 Other paper and paperboard, total:	152	154	167	164	171	171
4.31 Household and sanitary paper	18	18	20	20	24	26
4.32 Wrapping and packaging paper and paperboard, total:	131	133	144	139	142	140
4.32.1 Linerboard:	32	32	35	38	40	40
4.32.11 Kraft liner:	32	32	35	38	40	40
4.32.11.1 Unbleached	32	32	35	38	40	40
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium:	32	34	33	15	13	6
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	32	34	33	15	13	6
4.32.3 Kraft wrapping and packaging paper:	39	39	46	51	52	57
4.32.31 Sack kraft	30	30	35	40	40	45
4.32.32 Other kraft wrapping and packaging paper	9	9	11	11	12	12
4.32.4 Folding boxboard:	8	8	10	10	12	12
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	8	8	10	10	12	12
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	20	20	20	25	25	25
4.32.51 Paper	-	-	-	-	-	-
4.32.52 Paperboard	-	-	-	-	-	-
4.33 Other paper and paperboard, n.e.s., total:	3	3	3	5	5	5
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

38 Country: URUGUAY

	1976	1977	1978	1979	1980	1981
Total capacity	of which market pulp	Total capacity	of which market pulp	Total capacity	of which market pulp	Total capacity
----- 1,000 metric tons (air dry) per year -----						
1 Wood pulp for making paper and paperboard, total:	23	-	23	-	23	-
1.1 Mechanical	3	-	3	-	3	-
1.11 of which: non-coniferous	..	..	..	..	..	..
1.2 Chemi-mechanical and semi-chemical	5	-	5	-	5	-
1.21 of which: non-coniferous	..	..	..	..	..	..
1.3 Chemical, total:	15	-	15	-	15	-
1.31 Unbleached sulphite	-	-	-	-	-	-
1.31.1 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	-	-	-	-	-	-
1.32.1 of which: non-coniferous	-	-	-	-	-	-
1.33 Unbleached sulphate and soda	3	-	3	-	3	-
1.33.1 of which: non-coniferous	..	..	..	..	..	..
1.34 Bleached and semibleached sulphate and soda	12	-	12	-	12	-
1.34.1 of which: non-coniferous	12	-	12	-	12	-
2 Other fibre pulp for making paper and paperboard, total:	6	-	6	-	6	-
2.1 Straw	6	-	6	-	6	-
2.2 Bagasse	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	-	-	-	-	-	-
3 Dissolving pulp (wood and other fibrous raw materials)	-	-	-	-	-	-
3.1 of which: non-coniferous	-	-	-	-	-	-

38 Country: URUGUAY

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	57	57	57	57	57	57
4.1 Newsprint	1	1	1	1	1	1
4.2 Other printing and writing paper, 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 and paperboard, total:	37	37	37	37	37	37
4.31 Household and sanitary paper	9	9	9	9	9	9
4.32 Wrapping and packaging paper and paperboard, 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 and packaging paper:	7	7	7	7	7	7
4.32.31 Sack kraft	2	2	2	2	2	2
4.32.32 Other kraft wrapping and packaging paper	5	5	5	5	5	5
4.32.4 Folding boxboard:	7	7	7	7	7	7
4.32.41 Solid bleached board	..	..	..	..	..	..
4.32.42 Other folding boxboard	..	..	..	..	..	..
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	5	5	5	5	5	5
4.32.51 Paper	..	..	..	..	..	..
4.32.52 Paperboard	..	..	..	..	..	..
4.33 Other paper and paperboard, n.e.s., total:	3	3	3	3	3	3
4.33.1 Paper, n.e.s.	..	..	..	..	..	..
4.33.2 Paperboard, n.e.s.	..	..	..	..	..	..

	1976	1977	1978	1979	1980	1981
Total capacity	of which market pulp	Total capacity	of which market pulp	Total capacity	of which market pulp	Total capacity
--- 1,000 metric tons (air dry) per year ---						
39 Country: VENEZUELA						
1 Wood pulp for making paper and paperboard, total:	-	-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-
1.11 of which: non-coniferous	-	-	-	-	-	-
1.2 Chem-mechanical and semi-chemical	-	-	-	-	-	-
1.21 of which: non-coniferous	-	-	-	-	-	-
1.3 Chemical, total:	-	-	-	-	-	-
1.31 Unbleached sulphite	-	-	-	-	-	-
1.31.1 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	-	-	-	-	-	-
1.32.1 of which: non-coniferous	-	-	-	-	-	-
1.33 Unbleached sulphite and soda	-	-	-	-	-	-
1.33.1 of which: non-coniferous	-	-	-	-	-	-
1.34 Bleached and semibleached sulphite and soda	-	-	-	-	-	-
1.34.1 of which: non-coniferous	-	-	-	-	-	-
2 Other fibre pulp for making paper and paperboard, total:	83	-	103	-	113	-
2.1 Straw	-	-	-	-	-	-
2.2 Bagasse	80	-	100	-	110	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	3	-	3	-	3	-
3 Dissolving pulp (wood and other fibrous raw materials)	-	-	-	-	-	-
3.1 of which: non-coniferous	-	-	-	-	-	-

39 Country: VENEZUELA

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	587	706	747	758	758	758
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, total:	85	95	100	100	100	100
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 and paperboard, total:	502	611	647	658	658	658
4.31 Household and sanitary paper	86	96	99	99	99	99
4.32 Wrapping and packaging paper and paperboard, total:	411	510	543	554	554	554
4.32.1 Linerboard:	102	143	156	161	161	161
4.32.11 Kraft liner:	102	143	156	161	161	161
4.32.11.1 Unbleached	..	..	..	..	..	..
4.32.11.2 Bleached	..	..	..	..	..	..
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium:	66	72	75	75	75	75
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	66	72	75	75	75	75
4.32.3 Kraft wrapping and packaging paper:	143	150	152	153	153	153
4.32.31 Sack kraft	118	125	127	128	128	128
4.32.32 Other kraft wrapping and packaging paper	25	25	25	25	25	25
4.32.4 Folding boxboard:	89	134	149	154	154	154
4.32.41 Solid bleached board	8	8	8	8	8	8
4.32.42 Other folding boxboard	81	126	141	146	146	146
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	11	11	11	11	11	11
4.32.51 Paper	8	8	8	8	8	8
4.32.52 Paperboard	3	3	3	3	3	3
4.33 Other paper and paperboard, n.e.s., total:	5	5	5	5	5	5
4.33.1 Paper, n.e.s.	3	3	3	3	3	3
4.33.2 Paperboard, n.e.s.	2	2	2	2	2	2

	1976	1977	1978	1979	1980	1981
Total capacity	of which market pulp	Total capacity	of which market pulp	Total capacity	of which market pulp	Total capacity
--- 1,000 metric tons (air dry) per year ---						
40 Country: BANGLADESH						
1 Wood pulp for making paper and paperboard, total:	40	-	40	-	40	-
1.1 Mechanical	30	-	30	-	30	-
1.11 of which: non-coniferous	..	..	..	..	..	..
1.2 Chemi-mechanical and semi-chemical	10	-	10	-	10	-
1.21 of which: non-coniferous	..	..	..	..	..	..
1.3 Chemical, total:	-	-	-	-	-	-
1.31 Unbleached sulphite	-	-	-	-	-	-
1.31.1 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	-	-	-	-	-	-
1.32.1 of which: non-coniferous	-	-	-	-	-	-
1.33 Unbleached sulphate and soda	-	-	-	-	-	-
1.33.1 of which: non-coniferous	-	-	-	-	-	-
1.34 Bleached and semibleached sulphate and soda	-	-	-	-	-	-
1.34.1 of which: non-coniferous	-	-	-	-	-	-
2 Other fibre pulp for making paper and paperboard, total:	59	..	68	..	71	..
2.1 Straw	-	-	-	-	-	-
2.2 Bagasse	20	..	20	..	20	..
2.3 Bamboo	30	..	30	..	30	..
2.4 Other (reeds, esparto, rags, etc.)	9	9	18	18	21	24
3 Dissolving pulp (wood and other fibrous raw materials)	5	-	5	-	5	-
3.1 of which: non-coniferous	-	-	-	-	-	-

40 Country: BANGLADESH

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	142	142	142	142	142	142
4.1 Newsprint	54	54	54	54	54	54
4.2 Other printing and writing paper, 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 and paperboard, total:	17	17	17	17	17	17
4.31 Household and sanitary paper	-	-	-	-	-	-
4.32 Wrapping and packaging paper and paperboard, total:	17	17	17	17	17	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:	..	..	..	..	..	..
4.32.21 Semi-chemical	..	..	..	..	..	..
4.32.22 Other fluting medium	..	..	..	..	..	..
4.32.3 Kraft wrapping and packaging paper:	..	..	..	..	..	..
4.32.31 Sack kraft	..	..	..	..	..	..
4.32.32 Other kraft wrapping and packaging paper	..	..	..	..	..	..
4.32.4 Folding boxboard:	..	..	..	..	..	..
4.32.41 Solid bleached board	..	..	..	..	..	..
4.32.42 Other folding boxboard	..	..	..	..	..	..
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	..	..	..	..	..	..
4.32.51 Paper	..	..	..	..	..	..
4.32.52 Paperboard	..	..	..	..	..	..
4.33 Other paper and paperboard, n.e.s., total:	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

41 Country: BURMA

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	-	13	14	15	19	22
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, total:	12	13	14	15	15	15
4.21 Coated:	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated:	12	13	14	15	15	15
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	12	13	14	15	15	15
4.3 Other paper and paperboard, total:	1	1	1	4	7	10
4.31 Household and sanitary paper	-	-	-	-	-	-
4.32 Wrapping and packaging paper and paperboard, total:	1	1	1	4	7	10
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 and packaging paper:	1	1	1	4	7	10
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping and packaging paper	1	1	1	4	7	10
4.32.4 Folding boxboard:	-	-	-	-	-	-
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	-	-	-	-	-	-
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	-	-	-	-	-	-
4.32.51 Paper	-	-	-	-	-	-
4.32.52 Paperboard	-	-	-	-	-	-
4.33 Other paper and paperboard, n.e.s., total:	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

	Total capacity	of which market pulp	Total capacity	1980	1981						
--- 1,000 metric tons (air dry) per year ---											
42 Country: CHINA (a)											
1 Wood pulp for making paper and paperboard, total:	2,170	..	2,280	..	2,390	..	2,500	..	2,610	2,720	
1.1 Mechanical	800	..	840	..	880	..	920	..	960	1,000	
1.11 of which: non-coniferous	..	..	..	..	..	..	..	..	..	..
1.12 Chemi-mechanical and semi-chemical	..	..	..	..	..	..	..	..	..	..
1.21 of which: non-coniferous	..	..	..	..	..	..	..	..	..	..
1.3 Chemical, total:	1,370	..	1,440	..	1,510	..	1,580	..	1,650	1,720	
1.31 Unbleached sulphite	..	..	..	..	..	..	..	..	..	..
1.31.1 of which: non-coniferous	..	..	..	..	..	..	..	..	..	..
1.32 Bleached and semibleached sulphite	..	..	..	..	..	..	..	..	..	..
1.32.1 of which: non-coniferous	..	..	..	..	..	..	..	..	..	..
1.33 Unbleached sulphate and soda	..	..	..	..	..	..	..	..	..	..
1.33.1 of which: non-coniferous	..	..	..	..	..	..	..	..	..	..
1.34 Bleached and semibleached sulphate and soda	..	..	..	..	..	..	..	..	..	..
1.34.1 of which: non-coniferous	..	..	..	..	..	..	..	..	..	..
2 Other fibre pulp for making paper and paperboard, total:	4,770	..	4,930	..	5,090	..	5,250	..	5,410	5,570	
2.1 Straw	..	..	..	..	..	..	..	..	..	..
2.2 Bagasse	325	..	395	..	415	..	425	..	425	425	
2.3 Bamboo	..	..	..	..	..	..	..	..	..	..
2.4 Other (reeds, esparto, rags, etc.)	..	..	..	..	..	..	..	..	..	..
3 Dissolving pulp (wood and other fibrous raw materials)	40	-	40	-	40	-	40	-	40	40	
3.1 of which: non-coniferous	40	-	40	-	40	-	40	-	40	40	

(a) Secretariat estimate.

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
42 Country: CHINA (a)						
4 Paper and Paperboard, total:	8,000	8,250	8,500	8,750	9,000	9,250
4.1 Newsprint	860	890	920	950	980	1,010
4.2 Other printing and writing paper, total:	2,140	2,210	2,280	2,350	2,420	2,490
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 and paperboard, total:	5,000	5,150	5,300	5,450	5,600	5,750
4.31 Household and sanitary paper
4.32 Wrapping and packaging paper and paperboard, 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 and packaging paper:
4.32.31 Sack kraft
4.32.32 Other kraft wrapping and packaging paper
4.32.4 Folding boxboard:
4.32.41 Solid bleached board
4.32.42 Other folding boxboard
4.32.5 Other wrapping and packaging paper and paperboard, n. e. s. :
4.32.51 Paper
4.32.52 Paperboard
4.33 Other paper and paperboard, n. e. s., total:
4.33.1 Paper, n. e. s.
4.33.2 Paperboard, n. e. s.

(a) Secretariat estimate.

	1,000 metric tons (air dry) per year - - -						Total capacity 1981
	1976	1977	1978	1979	1980	1981	
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 of which market pulp	Total capacity of which market pulp	Total capacity of which market pulp	Total capacity 1981
43 Country: CYPRUS							
1 Wood pulp for making paper and paperboard, total:	-	-	-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-	-
1.11 of which: non-coniferous	-	-	-	-	-	-	-
1.2 Chemi-mechanical and semi-chemical	-	-	-	-	-	-	-
1.21 of which: non-coniferous	-	-	-	-	-	-	-
1.3 Chemical, total:	-	-	-	-	-	-	-
1.31 Unbleached sulphite	-	-	-	-	-	-	-
1.31.1 of which: non-coniferous	-	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	-	-	-	-	-	-	-
1.32.1 of which: non-coniferous	-	-	-	-	-	-	-
1.33 Unbleached sulphate and soda	-	-	-	-	-	-	-
1.33.1 of which: non-coniferous	-	-	-	-	-	-	-
1.34 Bleached and semibleached sulphate and soda	-	-	-	-	-	-	-
1.34.1 of which: non-coniferous	-	-	-	-	-	-	-
2 Other fibre pulp for making paper and paperboard, total:	-	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	-	-	-	-	-	-	-
3 Dissolving pulp (wood and other fibrous raw materials)	-	-	-	-	-	-	-
3.1 of which: non-coniferous	-	-	-	-	-	-	-

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
43 Country: CYPRUS						
4 Paper and Paperboard, total:	2	2	2	2	2	2
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, 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 and paperboard, total:	2	2	2	2	2	2
4.31 Household and sanitary paper	2	2	2	2	2	2
4.32 Wrapping and packaging paper and paperboard, 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 and packaging paper:	-	-	-	-	-	-
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.4 Folding boxboard:	-	-	-	-	-	-
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	-	-	-	-	-	-
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	-	-	-	-	-	-
4.32.51 Paper	-	-	-	-	-	-
4.32.52 Paperboard	-	-	-	-	-	-
4.33 Other paper and paperboard, n.e.s., total:	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

44 Country: HONG KONG

	1976	1977	1978	1979	1980	1981
	- - - - - 1,000 metric tons per year - - - - -					
4 Paper and Paperboard, total:	9	11	11	12	12	12
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, 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 and paperboard, total:	9	11	11	12	12	12
4.31 Household and sanitary paper	-	1	1	2	2	2
4.32 Wrapping and packaging paper and paperboard, total:	9	10	10	10	10	10
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:	9	10	10	10	10	10
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	9	10	10	10	10	10
4.32.3 Kraft wrapping and packaging paper:	-	-	-	-	-	-
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping and packaging paper	-	-	-	-	-	-
4.32.4 Folding boxboard:	-	-	-	-	-	-
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	-	-	-	-	-	-
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	-	-	-	-	-	-
4.32.51 Paper	-	-	-	-	-	-
4.32.52 Paperboard	-	-	-	-	-	-
4.33 Other paper and paperboard, n.e.s., total:	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

	1976	1977	1978	1979	1980	1981
Total capacity	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 of which market pulp	Total capacity
45 Country: INDIA						
			- 1,000 metric tons (air dry) per year - - -			
1 Wood pulp for making paper and paperboard, total:						
1.1 Mechanical	25	-	25	-	25	-
1.11 of which: non-coniferous	25	-	25	-	25	-
1.12 Chemi-mechanical and semi-chemical	25	-	25	-	25	-
1.21 of which: non-coniferous	25	-	25	-	25	-
1.3 Chemical, total:	280	-	300	-	300	-
1.31 Unbleached sulphite	-	-	-	-	-	-
1.31.1 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	-	-	-	-	-	-
1.32.1 of which: non-coniferous	-	-	-	-	-	-
1.33 Unbleached sulphate and soda	140	-	150	-	150	-
1.33.1 of which: non-coniferous	140	-	150	-	150	-
1.34 Bleached and semibleached sulphate and soda	140	-	150	-	150	-
1.34.1 of which: non-coniferous	140	-	150	-	150	-
2 Other fibre pulp for making paper and paperboard, total:	835	25	875	25	935	25
2.1 Straw	30	-	30	-	85	-
2.2 Bagasse	15	-	15	-	15	-
2.3 Bamboo	645	25	685	25	685	25
2.4 Other (reeds, esparto, rags, etc.)	145	-	145	-	150	-
3 Dissolving pulp (wood and other fibrous raw materials)	120	120	120	140	140	140
3.1 of which: non-coniferous	120	120	120	140	140	140

45 Country: INDIA

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	1,175	1,215	1,365	1,475	1,721	1,853
4.1 Newsprint	75	75	75	75	171	203
4.2 Other printing and writing paper, total:	605	627	710	770	850	910
4.21 Coated:	30	30	30	40	40	40
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	30	30	30	40	40	40
4.22 Uncoated:	575	597	680	750	810	870
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	575	597	680	750	810	870
4.3 Other paper and paperboard, total:	495	513	580	650	700	740
4.31 Household and sanitary paper	10	10	10	10	10	10
4.32 Wrapping and packaging paper and paperboard, total:	485	503	570	620	690	730
4.32.1 Linerboard:	20	30	30	40	50	60
4.32.11 Kraft liner:	20	30	30	40	50	60
4.32.11.1 Unbleached	20	30	30	40	50	60
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium:	-	-	-	-	-	-
4.32.21 Semi-chemical	-	-	10	30	40	50
4.32.22 Other fluting medium	-	-	10	30	40	50
4.32.3 Kraft wrapping and packaging paper:	255	263	310	350	350	360
4.32.31 Sack kraft	-	5	5	10	10	10
4.32.32 Other kraft wrapping and packaging paper	255	258	305	300	340	350
4.32.4 Folding boxboard:	-	-	-	-	-	-
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	-	-	-	-	-	-
4.32.5 Other wrapping and packaging paper and paperboard, n. e.s.:	210	210	220	240	250	260
4.32.51 Paper	-	-	-	-	-	-
4.32.52 Paperboard	210	210	220	240	250	260
4.33 Other paper and paperboard, n. e.s., total:	-	-	-	-	-	-
4.33.1 Paper, n. e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n. e.s.	-	-	-	-	-	-

	1976	1977	1978	1979	1980	1981
Total capacity	of which market pulp	Total capacity	of which market pulp	Total capacity	of which market pulp	Total capacity
46 Country: INDONESIA						
1 Wood pulp for making paper and paperboard, total:	8	-	8	-	8	-
1.1 Mechanical	-	-	-	-	-	-
1.11 of which: non-coniferous	-	-	-	-	-	-
1.2 Chemi-mechanical and semi-chemical	-	-	-	-	-	-
1.21 of which: non-coniferous	-	-	-	-	-	-
1.3 Chemical, total:	8	-	8	-	8	-
1.31 Unbleached sulphite	-	-	-	-	-	-
1.31.1 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	-	-	-	-	-	-
1.32.1 of which: non-coniferous	-	-	-	-	-	-
1.33 Unbleached sulphate and soda	8	-	8	-	8	-
1.33.1 of which: non-coniferous	-	-	-	-	-	-
1.34 Bleached and semibleached sulphate and soda	-	-	-	-	-	-
1.34.1 of which: non-coniferous	-	-	-	-	-	-
2 Other fibre pulp for making paper and paperboard, total:	57	-	63	-	67	-
2.1 Straw	37	-	43	-	47	-
2.2 Bagasse	6	-	6	-	6	-
2.3 Bamboo	14	-	14	-	14	-
2.4 Other (reeds, esparto, rags, etc.)	-	-	-	-	-	-
3 Dissolving pulp (wood and other fibrous raw materials)	-	-	-	-	-	-
3.1 of which: non-coniferous	-	-	-	-	-	-

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
46 Country: INDONESIA						
4 Paper and Paperboard, total:	73	83	116	136	148	148
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, total:	67	70	98	114	125	125
4.21 Coated:	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncalced:	67	70	98	114	125	125
4.22.1 Wood containing	..	..	..	..	..	..
4.22.2 Wood free	..	..	..	..	..	..
4.3 Other paper and paperboard, total:	6	13	18	22	23	23
4.31 Household and sanitary paper	-	-	-	-	-	-
4.32 Wrapping and packaging paper and paperboard, total:	1	7	12	16	17	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:	..	..	..	..	..	..
4.32.21 Semi-chemical	..	..	..	..	..	..
4.32.22 Other fluting medium	..	..	..	..	..	..
4.32.3 Kraft wrapping and packaging paper:	..	..	..	..	..	..
4.32.31 Sack kraft	..	..	..	..	..	..
4.32.32 Other kraft wrapping and packaging paper	..	..	..	..	..	..
4.32.4 Folding boxboard:	..	..	..	..	..	..
4.32.41 Solid bleached board	..	..	..	..	..	..
4.32.42 Other folding boxboard	..	..	..	..	..	..
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	..	..	..	..	..	..
4.32.51 Paper	..	..	..	..	..	..
4.32.52 Paperboard	..	..	..	..	..	..
4.33 Other paper and paperboard, n.e.s., total:	5	6	6	6	6	6
4.33.1 Paper, n.e.s.	5	6	6	6	6	6
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

	1976	1977	1978	1979	1980	1981
	Total capacity of which market pulp	Total capacity				
47 Country: IRAN						
1						
1. Wood pulp for making paper and paperboard, total:	-	-	-	-	85	-
1.1 Mechanical	-	-	-	-	-	-
1.11 of which: non-coniferous	-	-	-	-	-	-
1.2 Chemi-mechanical and semi-chemical	-	-	-	-	-	95
1.21 of which: non-coniferous	-	-	-	-	-	-
1.3 Chemical, total:	-	-	-	60	85	125
1.31 Unbleached sulphite	-	-	-	-	-	15
1.31.1 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	-	-	-	-	-	-
1.32.1 of which: non-coniferous	-	-	-	-	-	-
1.33 Unbleached sulphate and soda	-	-	-	60	85	110
1.33.1 of which: non-coniferous	-	-	-	60	85	110
1.34 Bleached and semibleached sulphate and soda	-	-	-	-	-	-
1.34.1 of which: non-coniferous	-	-	-	-	-	-
2						
2 Other fibre pulp for making paper and paperboard, total:	60	-	60	-	60	-
2.1 Straw	-	-	-	-	-	-
2.2 Bagasse	60	-	60	-	60	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	-	-	-	-	-	-
3						
3 Dissolving pulp (wood and other fibrous raw materials)	-	-	-	-	-	-
3.1 of which: non-coniferous	-	-	-	-	-	-

47 Country: IRAN

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	139	139	214	244	377	442
4.1 Newsprint	-	-	-	-	23	32
4.2 Other printing and writing paper, total:	90	90	90	90	112	121
4.21 Coated:	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated:	90	90	90	90	112	121
4.22.1 Wood containing	-	-	-	-	22	31
4.22.2 Wood free	90	90	90	90	90	90
4.3 Other paper and paperboard, total:	49	49	124	154	242	289
4.31 Household and sanitary paper	9	9	9	9	9	9
4.32 Wrapping and packaging paper and paperboard, total:	40	40	115	145	233	280
4.32.1 Linerboard:	-	-	30	40	54	60
4.32.11 Kraft liner:	-	-	30	40	54	60
4.32.11.1 Unbleached	-	-	30	40	54	60
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium:	-	-	20	30	75	100
4.32.21 Semi-chemical	-	-	20	30	75	100
4.32.22 Other fluting medium	-	-	-	-	-	-
4.32.3 Kraft wrapping and packaging paper:	25	25	42	50	56	60
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping and packaging paper	25	25	42	50	56	60
4.32.4 Folding boxboard:	-	-	-	-	20	30
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	-	-	-	-	20	30
4.32.5 Other wrapping and packaging paper and paperboard, n. e. s.:	15	15	23	25	28	30
4.32.51 Paper	-	-	-	-	-	-
4.32.52 Paperboard	15	15	23	25	28	30
4.33 Other paper and paperboard, n. e. s., total:	-	-	-	-	-	-
4.33.1 Paper, n. e. s.	-	-	-	-	-	-
4.33.2 Paperboard, n. e. s.	-	-	-	-	-	-

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	27	37	53	66	38	110
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, total:	8	11	24	31	36	39
4.21 Coated:	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated:	8	11	24	31	36	39
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	-	-	-	-	-	-
4.3 Other paper and paperboard, total:	19	26	29	35	52	74
4.31 Household and sanitary paper	-	2	3	4	5	5
4.32 Wrapping and packaging paper and paperboard, total:	19	24	26	31	47	66
4.32.1 Linerboard:	10	12	13	15	15	15
4.32.11 Kraft liner:	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	10	12	13	15	15	15
4.32.2 Fluting medium:	-	-	-	-	-	-
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	-	-	-	-	-	-
4.32.3 Kraft wrapping and packaging paper:	1	1	1	2	12	27
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping and packaging paper	-	-	-	-	-	-
4.32.4 Folding boxboard:	6	8	9	11	16	21
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	6	8	9	11	16	21
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	2	3	3	3	3	3
4.32.51 Paper	-	-	-	-	-	-
4.32.52 Paperboard	2	3	3	3	3	3
4.33 Other paper and paperboard, n.e.s., total:	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

	1976	1977	1978	1979	1980	1981
	Total capacity of market pulp	Total capacity of market pulp	Total capacity of market pulp	Total capacity of market pulp	Total capacity of market pulp	Total capacity of market pulp
- 1,000 metric tons (air dry) per year - - - - -						
49 Country: ISRAEL						
1 Wood pulp for making paper and paperboard, total:	-	-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-
1.11 of which: non-coniferous	-	-	-	-	-	-
1.2 Chemi-mechanical and semi-chemical	-	-	-	-	-	-
1.21 of which: non-coniferous	-	-	-	-	-	-
1.3 Chemical, total:	-	-	-	-	-	-
1.31 Unbleached sulphite	-	-	-	-	-	-
1.31.1 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	-	-	-	-	-	-
1.32.1 of which: non-coniferous	-	-	-	-	-	-
1.33 Unbleached sulphate and soda	-	-	-	-	-	-
1.33.1 of which: non-coniferous	-	-	-	-	-	-
1.34 Bleached and semibleached sulphate and soda	-	-	-	-	-	-
1.34.1 of which: non-coniferous	-	-	-	-	-	-
2 Other fibre pulp for making paper and paperboard, total:	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	-	-	-	-	-	-
3 Dissolving pulp (wood and other fibrous raw materials)	-	-	-	-	-	-
3.1 of which: non-coniferous	-	-	-	-	-	-

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	106	118	128	134	135	132
4.1 Newsprint	13	12	17	18	18	19
4.2 Other printing and writing paper, total:	40	41	42	43	44	45
4.21 Coated:	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated:	40	41	42	43	44	45
4.22.1 Wood containing	5	4	4	4	5	5
4.22.2 Wood free	35	37	38	39	39	40
4.3 Other paper and paperboard, total:	53	65	69	73	73	75
4.31 Household and sanitary paper	14	12	13	14	14	14
4.32 Wrapping and packaging paper and paperboard, total:	39	49	52	55	55	57
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:	5	19	19	20	20	21
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	5	19	19	20	20	21
4.32.3 Kraft wrapping and packaging paper:	11	10	10	10	10	10
4.32.31 Sack kraft	3	3	3	3	3	3
4.32.32 Other kraft wrapping and packaging paper	8	7	7	7	7	7
4.32.4 Folding boxboard:	19	15	18	20	20	21
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	19	15	18	20	20	21
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	4	5	5	5	5	5
4.32.51 Paper	4	5	5	5	5	5
4.32.52 Paperboard	-	-	-	-	-	-
4.33 Other paper and paperboard, n.e.s., total:	-	4	4	4	4	4
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	4	4	4	4	4

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976 - 1981

	1976	1977	1978	1979	1980	1981
Total capacity	Total capacity of which market pulp	Total capacity				
50 Country: JAPAN						
1 Wood pulp for making paper and paperboard, total:	11,985	1,240	12,095	1,240	12,667	1,240
1.1 Mechanical	1,874	44	2,003	44	2,289	44
1.11 of which: non-coniferous	49	-	52	-	60	-
1.2 Chemi-mechanical and semi-chemical	2,323	89	2,257	89	2,251	89
1.21 of which: non-coniferous	2,195	89	2,133	89	2,127	89
1.3 Chemical, total:	7,788	1,107	7,835	1,107	8,127	1,107
1.31 Unbleached sulphite a)	299	22	299	22	299	22
1.31.1 of which: non-coniferous	11	5	11	5	11	5
1.32 Bleached and semibleached sulphite	..	..	..	..	..	..
1.32.1 of which: non-coniferous	..	..	..	..	..	..
1.33 Unbleached sulphate and soda	3,220	265	3,173	265	3,311	265
1.33.1 of which: non-coniferous	882	98	869	98	907	98
1.34 Bleached and semibleached sulphate and soda	4,269	820	4,363	820	4,517	820
1.34.1 of which: non-coniferous	3,654	675	3,735	675	3,867	675
2 Other fibre pulp for making paper and paperboard, total:	4	4	4	4	4	4
2.1 Straw	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	4	4	4	4	4	4
3 Dissolving pulp (wood and other fibrous raw materials)	479	479	479	479	479	479
3.1 of which: non-coniferous	448	448	448	448	448	448

a) Including bleached and semibleached.

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	20,394	20,724	21,618	22,821	23,422	23,653
4.1 Newsprint	2,438	2,552	2,867	3,054	3,106	3,137
4.2 Other printing and writing paper, total:	3,616	3,805	4,094	4,568	4,829	4,877
4.21 Coated:	1,322	1,392	1,473	1,589	1,684	1,701
4.21.1 Wood containing	..	..	..	..	..	..
4.21.2 Wood free	..	..	..	..	..	..
4.22 Uncrated:	2,294	2,413	2,621	2,979	3,145	3,176
4.22.1 Wood containing	1,235	1,317	1,364	1,452	1,531	1,546
4.22.2 Wood free	1,059	1,096	1,257	1,527	1,614	1,630
4.3 Other paper and paperboard, total:	14,340	14,367	14,657	15,199	15,487	15,639
4.31 Household and sanitary paper	814	824	846	875	911	920
4.32 Wrapping and packaging paper and paperboard, total:	10,992	10,979	11,183	11,385	11,796	11,911
4.32.1 Linerboard:	4,518	4,608	4,738	4,897	5,037	5,086
4.32.11 Kraft liner:	1,959	1,925	1,944	1,963	1,983	2,002
4.32.11.1 Unbleached	..	..	..	..	..	..
4.32.11.2 Bleached	..	..	..	..	..	..
4.32.12 Other linerboard	2,559	2,683	2,794	2,934	3,054	3,084
4.32.2 Fluting medium:	2,829	2,626	2,656	2,842	2,873	2,901
4.32.21 Semi-chemical	2,269	2,085	2,102	2,152	2,167	2,188
4.32.22 Other fluting medium	560	541	554	690	706	713
4.32.3 Kraft wrapping and packaging paper:	1,479	1,503	1,532	1,555	1,571	1,587
4.32.31 Sack kraft	1,027	1,035	1,047	1,065	1,076	1,087
4.32.32 Other kraft wrapping and packaging paper	452	468	485	490	495	500
4.32.4 Folding boxboard:	1,663	1,722	1,759	1,787	1,807	1,824
4.32.41 Solid bleached board	482	519	524	535	536	541
4.32.42 Other folding boxboard	1,181	1,203	1,235	1,252	1,271	1,283
4.32.5 Other wrapping and packaging paper and paperboard, n. e. s.:	503	520	498	504	508	513
4.32.51 Paper	-	-	-	-	-	-
4.32.52 Paperboard	503	520	498	504	508	513
4.33 Other paper and paperboard, n. e. s., total:	2,534	2,564	2,628	2,739	2,780	2,808
4.33.1 Paper, n. e. s.	1,571	1,591	1,637	1,735	1,769	1,787
4.33.2 Paperboard, n. e. s.	963	973	991	1,004	1,011	1,021

51 Country: JORDAN

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	8	9	10	10	10	10
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, 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 and paperboard, total:	8	9	10	10	10	10
4.31 Household and sanitary paper	-	-	-	-	-	-
4.32 Wrapping and packaging paper and paperboard, total:	8	9	10	10	10	10
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	5	5	5	5	5
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	4	5	5	5	5	5
4.32.3 Kraft wrapping and packaging paper:	-	-	-	-	-	-
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping and packaging paper:	-	-	-	-	-	-
4.32.4 Folding boxboard:	-	-	-	-	-	-
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	-	-	-	-	-	-
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	4	4	5	5	5	5
4.32.51 Paper	-	-	-	-	-	-
4.32.52 Paperboard	4	4	5	5	5	5
4.33 Other paper and paperboard, n.e.s., total:	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

	1976	1977	1978	1979	1980	1981
	Total capacity of market pulp					
52 Country: KAMPUCHEA, DEMOCRATIC						
1 Wood pulp for making paper and paperboard, total:	-	-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-
1.11 of which: non-coniferous	-	-	-	-	-	-
1.12 Chemi-mechanical and semi-chemical	-	-	-	-	-	-
1.21 of which: non-coniferous	-	-	-	-	-	-
1.3 Chemical, total:	-	-	-	-	-	-
1.31 Unbleached sulphite	-	-	-	-	-	-
1.31.1 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	-	-	-	-	-	-
1.32.1 of which: non-coniferous	-	-	-	-	-	-
1.33 Unbleached sulphate and soda	-	-	-	-	-	-
1.33.1 of which: non-coniferous	-	-	-	-	-	-
1.34 Bleached and semibleached sulphate and soda	-	-	-	-	-	-
1.34.1 of which: non-coniferous	-	-	-	-	-	-
2 Other fibre pulp for making paper and paperboard, 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 (reeds, esparto, rags, etc.)	-	-	-	-	-	-
3 Dissolving pulp (wood and other fibrous raw materials)	-	-	-	-	-	-
3.1 of which: non-coniferous	-	-	-	-	-	-

52 Country: KAMPUCHEA, DEMOCRATIC

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	5	5	5	5	5	5
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, 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 and paperboard, total:	2	2	2	2	2	2
4.31 Household and sanitary paper	-	-	-	-	-	-
4.32 Wrapping and packaging paper and paperboard, 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 and packaging paper:	-	-	-	-	-	-
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping and packaging paper	-	-	-	-	-	-
4.32.4 Folding boxboard:	-	-	-	-	-	-
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	-	-	-	-	-	-
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	2	2	2	2	2	2
4.32.51 Paper	2	2	2	2	2	2
4.32.52 Paperboard	-	-	-	-	-	-
4.33 Other paper and paperboard, n.e.s., total:	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

	1976	1977	1978	1979	1980	1981
	Total capacity of which market pulp					
53 Country: KOREA, DEMOCRATIC PEOPLE'S REP. OF (a)						
1 Wood pulp for making paper and paperboard, total:	39	-	43	-	47	-
1.1 Mechanical	9	-	10	-	11	-
1.11 of which: non-coniferous	..	-	..	-	..	-
1.2 Chemi-mechanical and semi-chemical	-	-	-	-	-	-
1.21 of which: non-coniferous	-	-	-	-	-	-
1.3 Chemical, total:	30	-	33	-	36	-
1.31 Unbleached sulphite	..	-	..	-	..	-
1.31.1 of which: non-coniferous	..	-	..	-	..	-
1.32 Bleached and semibleached sulphite	..	-	..	-	..	-
1.32.1 of which: non-coniferous	..	-	..	-	..	-
1.33 Unbleached sulphate and soda	..	-	..	-	..	-
1.33.1 of which: non-coniferous	..	-	..	-	..	-
1.34 Bleached and semibleached sulphate and soda	20	-	23	-	26	-
1.34.1 of which: non-coniferous	..	-	..	-	..	-
2 Other fibre pulp for making paper and paperboard, total:	50	-	50	-	50	-
2.1 Straw	..	-	..	-	..	-
2.2 Bagasse	..	-	..	-	..	-
2.3 Bamboo	..	-	..	-	..	-
2.4 Other (reeds, esparto, rags, etc.)	..	-	..	-	..	-
3 Dissolving pulp (wood and other fibrous raw materials)	-	-	-	-	-	-
3.1 of which: non-coniferous	-	-	-	-	-	-

(a) Secretariat estimate.

53 Country: KOREA, DEMOCRATIC PEOPLE'S REP. OF (a)

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	124	128	132	136	140	140
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, total:	(b) 18	21	24	27	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 and paperboard, total:	106	107	108	109	110	110
4.31 Household and sanitary paper
4.32 Wrapping and packaging paper and paperboard, 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 and packaging paper:
4.32.31 Sack kraft
4.32.32 Other kraft wrapping and packaging paper
4.32.4 Folding boxboard:	(b) 6	7	8	9	10	10
4.32.41 Solid bleached board
4.32.42 Other folding boxboard
4.32.5 Other wrapping and packaging paper and paperboard, n. e. s. :
4.32.51 Paper
4.32.52 Paperboard
4.33 Other paper and paperboard, n. e. s., total:
4.33.1 Paper, n. e. s.
4.33.2 Paperboard, n. e. s.

(a) Secretariat estimate.

(b) Additional capacity only.

54. Country: KOREA, REPUBLIC OF

	1976	1977	1978	1979	1980	1981
	Total capacity of market pulp	Total capacity of market pulp	Total capacity of market pulp	Total capacity of market pulp	Total capacity of market pulp	Total capacity of market pulp
- - - 1,000 metric tons (air dry) per year - - -						
1 Wood pulp for making paper and paperboard, total:	140	19	140	19	185	19
1.1 Mechanical	134	13	134	13	179	13
1.1.1 of which: non-coniferous	..	..	..	..	..	..
1.1.2 Chemi-mechanical and semi-chemical	-	-	-	-	-	-
1.21 of which: non-coniferous	-	-	-	-	-	-
1.3 Chemical, total:	6	6	6	6	6	6
1.31 Unbleached sulphite	-	-	-	-	-	-
1.31.1 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	-	-	-	-	-	-
1.32.1 of which: non-coniferous	-	-	-	-	-	-
1.33 Unbleached sulphate and soda	6	6	6	6	6	6
1.33.1 of which: non-coniferous	-	-	-	-	-	-
1.34 Bleached and semibleached sulphate and soda	-	-	-	-	-	-
1.34.1 of which: non-coniferous	-	-	-	-	-	-
2 Other fibre pulp for making paper and paperboard, total:	18	18	28	28	28	28
2.1 Straw	18	18	18	18	18	18
2.2 Bagasse	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	-	10	10	10	10	10
3 Dissolving pulp (wood and other fibrous raw materials)	-	-	-	-	-	-
3.1 of which: non-coniferous	-	-	-	-	-	-

54 Country: KOREA, REPUBLIC OF

	1976	1977	1978	1979	1980	1981
1,000 metric tons per year						
4 Paper and Paperboard, total:	1,073	1,118	1,175	1,195	1,202	1,202
4.1 Newsprint	161	161	206	219	226	226
4.2 Other printing and writing paper, total:	202	202	202	202	202	202
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 and paperboard, total:	710	755	767	774	774	774
4.31 Household and sanitary paper	10	10	10	10	10	10
4.32 Wrapping and packaging paper and paperboard, total:	700	745	757	764	764	764
4.32.1 Linerboard:	75	85	88	90	90	90
4.32.11 Kraft liner:	75	75	75	75	75	75
4.32.11.1 Unbleached	..	..	..	..	..	..
4.32.11.2 Bleached	..	..	..	..	..	..
4.32.12 Other linerboard	-	10	13	15	15	15
4.32.2 Fluting medium:	24	24	24	24	24	24
4.32.21 Semi-chemical	..	..	..	..	..	..
4.32.22 Other fluting medium	..	..	..	..	..	..
4.32.3 Kraft wrapping and packaging paper:	155	190	199	204	204	204
4.32.31 Sack kraft	155	190	199	204	204	204
4.32.32 Other kraft wrapping and packaging paper	-	-	-	-	-	-
4.32.4 Folding boxboard:	50	50	50	50	50	50
4.32.41 Solid bleached board	50	50	50	50	50	50
4.32.42 Other folding boxboard	-	-	-	-	-	-
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	396	396	396	396	396	396
4.32.51 Paper	17	17	17	17	17	17
4.32.52 Paperboard	379	379	379	379	379	379
4.33 Other paper and paperboard, n.e.s., total:	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

	1976	1977	1978	1979	1980	1981
	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 of which market pulp	Total capacity of which market pulp
- - - 1,000 metric tons (air dry) per year - - -						
55 Country: LIBANON						
1 Wood pulp for making paper and paperboard, total:	-	-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-
1.11 of which: non-coniferous	-	-	-	-	-	-
1.2 Chemi-mechanical and semi-chemical	-	-	-	-	-	-
1.21 of which: non-coniferous	-	-	-	-	-	-
1.3 Chemical, total:	-	-	-	-	-	-
1.31 Unbleached sulphite	-	-	-	-	-	-
1.31.1 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	-	-	-	-	-	-
1.32.1 of which: non-coniferous	-	-	-	-	-	-
1.33 Unbleached sulphate and soda	-	-	-	-	-	-
1.33.1 of which: non-coniferous	-	-	-	-	-	-
1.34 Bleached and semibleached sulphate and soda	-	-	-	-	-	-
1.34.1 of which: non-coniferous	-	-	-	-	-	-
2 Other fibre pulp for making paper and paperboard, total:	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	-	-	-	-	-	-
3 Dissolving pulp (wood and other fibrous raw materials)	-	-	-	-	-	-
3.1 of which: non-coniferous	-	-	-	-	-	-

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
55 Country: LEBANON						
4 Paper and Paperboard, total:	45	45	45	45	45	45
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, 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 and paperboard, total:	45	45	45	45	45	45
4.31 Household and sanitary paper	2	2	2	2	2	2
4.32 Wrapping and packaging paper and paperboard, total:	43	43	43	43	43	43
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:	13	13	13	13	13	13
4.32.21 Semi-chemical	..	..	..	..	..	..
4.32.22 Other fluting medium	..	..	..	..	..	..
4.32.3 Kraft wrapping and packaging paper:	-	-	-	-	-	-
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping and packaging paper	-	-	-	-	-	-
4.32.4 Folding boxboard:	20	20	20	20	20	20
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	20	20	20	20	20	20
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	10	10	10	10	10	10
4.32.51 Paper	..	..	..	..	..	..
4.32.52 Paperboard	..	..	..	..	..	..
4.33 Other paper and paperboard, n.e.s., total:	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

	1976	1977	1978	1979	1980	1981
	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 of which market pulp	Total capacity of which market pulp
56 Country: MALAYSIA						
1	Wood pulp for making paper and paperboard, total:	-	-	-	-	-
1.1	Mechanical	-	-	-	-	-
1.11	of which: non-coniferous	-	-	-	-	-
1.2	Chemi-mechanical and semi-chemical	-	-	-	-	-
1.21	of which: non-coniferous	-	-	-	-	-
1.3	Chemical, total:	-	-	-	-	-
1.31	Unbleached sulphite	-	-	-	-	-
1.31.1	of which: non-coniferous	-	-	-	-	-
1.32	Bleached and semibleached sulphite	-	-	-	-	-
1.32.1	of which: non-coniferous	-	-	-	-	-
1.33	Unbleached sulphite and soda	-	-	-	-	-
1.33.1	of which: non-coniferous	-	-	-	-	-
1.34	Bleached and semibleached sulphite and soda	-	-	-	-	-
1.34.1	of which: non-coniferous	-	-	-	-	-
2	Other fibre pulp for making paper and paperboard, total:	-	-	-	-	-
2.1	Straw	-	-	-	-	-
2.2	Bagasse	-	-	-	-	-
2.3	Bamboo	-	-	-	-	-
2.4	Other (reeds, esparto, rags, etc.)	-	-	-	-	-
3	Dissolving pulp (wood and other fibrous raw materials)	-	-	-	-	-
3.1	of which: non-coniferous	-	-	-	-	-

56 Country: MALAYSIA

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	18	18	18	18	18	18
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, total:	1	1	1	1	1	1
4.21 Coated:	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated:	1	1	1	1	1	1
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	1	1	1	1	1	1
4.3 Other paper and paperboard, total:	17	17	17	17	17	17
4.31 Household and sanitary paper	1	1	1	1	1	1
4.32 Wrapping and packaging paper and paperboard, total:	16	16	16	16	16	16
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:	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 and packaging paper:	3	3	3	3	3	3
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping and packaging paper	3	3	3	3	3	3
4.32.4 Folding boxboard:	5	5	5	5	5	5
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	5	5	5	5	5	5
4.32.5 Other wrapping and packaging paper and paperboard, n. e.s.:	-	-	-	-	-	-
4.32.51 Paper	-	-	-	-	-	-
4.32.52 Paperboard	-	-	-	-	-	-
4.33 Other paper and paperboard, 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.	-	-	-	-	-	-

	Total capacity of market pulp	Total capacity	of which market pulp	Total capacity of market pulp	1976	1977	1978	1979	1980	1981			
57 Country: MONGOLIA (a)													
1	Wood pulp for making paper and paperboard, total:												
1.1	Mechanical	-	-	-	-	-	-	-	-	-	-	-	-
1.11	of which: non-coniferous	-	-	-	-	-	-	-	-	-	-	-	-
1.2	Chemi-mechanical and semi-chemical	-	-	-	-	-	-	-	-	-	-	-	-
1.21	of which: non-coniferous	-	-	-	-	-	-	-	-	-	-	-	-
1.3	Chemical, total:	-	-	-	-	-	-	-	-	-	-	-	-
1.31	Unbleached sulphite	-	-	-	-	-	-	-	-	-	-	-	-
1.31.1	of which: non-coniferous	-	-	-	-	-	-	-	-	-	-	-	-
1.32	Bleached and semibleached sulphite	-	-	-	-	-	-	-	-	-	-	-	-
1.32.1	of which: non-coniferous	-	-	-	-	-	-	-	-	-	-	-	-
1.33	Unbleached sulphite and soda	-	-	-	-	-	-	-	-	-	-	-	-
1.33.1	of which: non-coniferous	-	-	-	-	-	-	-	-	-	-	-	-
1.34	Bleached and semibleached sulphite and soda	-	-	-	-	-	-	-	-	-	-	-	-
1.34.1	of which: non-coniferous	-	-	-	-	-	-	-	-	-	-	-	-
2	Other fibre pulp for making paper and paperboard, total:	2	-	2	-	2	-	2	-	2	-	2	2
2.1	Straw	-	-	-	-	-	-	-	-	-	-	-	-
2.2	Bagasse	-	-	-	-	-	-	-	-	-	-	-	-
2.3	Bamboo	-	-	-	-	-	-	-	-	-	-	-	-
2.4	Other (reeds, esparto, rags, etc.)	-	-	-	-	-	-	-	-	-	-	-	-
3	Dissolving pulp (wood and other fibrous raw materials)	-	-	-	-	-	-	-	-	-	-	-	-
3.1	of which: non-coniferous	-	-	-	-	-	-	-	-	-	-	-	-

(a) Secretariat estimate.

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	2	2	2	2	2	2
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, 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 and paperboard, total:	..	..	..	..	..	..
4.31 Household and sanitary paper	-	-	-	-	-	-
4.32 Wrapping and packaging paper and paperboard, 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 and packaging paper:	-	-	-	-	-	-
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping and packaging paper	-	-	-	-	-	-
4.32.4 Folding boxboard:	-	-	-	-	-	-
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	-	-	-	-	-	-
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	..	..	..	..	..	..
4.32.51 Paper	..	..	..	..	..	..
4.32.52 Paperboard	..	..	..	..	..	..
4.33 Other paper and paperboard, n.e.s., total:	..	..	..	..	..	..
4.33.1 Paper, n.e.s.	..	..	..	..	..	..
4.33.2 Paperboard, n.e.s.	..	..	..	..	..	..

(a) Secretariat estimate.

	Total capacity	of which market pulp	1,000 metric tons (air dry) per year		1981								
									1976	1977	1978	1979	1980	1981
58 Country: NEPAL (a)													
1 Wood pulp for making paper and paperboard, total:									-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-	-	-	-	-	-	-	-
1.11 of which: non-coniferous	-	-	-	-	-	-	-	-	-	-	-	-	-
1.12 Chemi-mechanical and semi-chemical	-	-	-	-	-	-	-	-	-	-	-	-	-
1.21 of which: non-coniferous	-	-	-	-	-	-	-	-	-	-	-	-	-
1.3 Chemical, total:	-	-	-	-	-	-	-	-	-	-	-	-	-
1.31 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-	-	-	-
1.31.1 of which: non-coniferous	-	-	-	-	-	-	-	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	-	-	-	-	-	-	-	-	-	-	-	-	-
1.32.1 of which: non-coniferous	-	-	-	-	-	-	-	-	-	-	-	-	-
1.33 Unbleached sulphite and soda	-	-	-	-	-	-	-	-	-	-	-	-	-
1.33.1 of which: non-coniferous	-	-	-	-	-	-	-	-	-	-	-	-	-
1.34 Bleached and semibleached sulphite and soda	-	-	-	-	-	-	-	-	-	-	-	-	-
1.34.1 of which: non-coniferous	-	-	-	-	-	-	-	-	-	-	-	-	-
2 Other fibre pulp for making paper and paperboard, total:	-	4	-	4	-	4	-	4	-	-	4	-	4
2.1 Straw	-	-	-	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	-	-	-	-	-	-	-	-	-	-	-	-	-
3 Dissolving pulp (wood and other fibrous raw materials)	-	-	-	-	-	-	-	-	-	-	-	-	-
3.1 of which: non-coniferous	-	-	-	-	-	-	-	-	-	-	-	-	-

(a) Secretariat estimate.

58 Country: NEPAL (a)	1976	1977	1978	1979	1980	1981
	- 1,000 metric tons per year - - - - -					
4 Paper and Paperboard, total:	4	4	4	4	4	4
4.1 Newsprint	..	..	..	..	..	..
4.2 Other printing and writing paper, 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 and paperboard, total:	..	..	..	..	..	..
4.31 Household and sanitary paper	-	-	-	-	-	-
4.32 Wrapping and packaging paper and paperboard, 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 and packaging paper:	-	-	-	-	-	-
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping and packaging paper	-	-	-	-	-	-
4.32.4 Folding boxboard:	-	-	-	-	-	-
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	-	-	-	-	-	-
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	..	..	..	..	..	..
4.32.51 Paper	..	..	..	..	..	..
4.32.52 Paperboard	..	..	..	..	..	..
4.33 Other paper and paperboard, n.e.s., total:	..	..	..	..	..	..
4.33.1 Paper, n.e.s.	..	..	..	..	..	..
4.33.2 Paperboard, n.e.s.	..	..	..	..	..	..

(a) Secretariat estimate.

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	112	112	112	112	112	112
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, 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 and paperboard, total:	65	65	65	65	65	65
4.31 Household and sanitary paper	-	-	-	-	-	-
4.32 Wrapping and packaging paper and paperboard, total:	65	65	65	65	65	65
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:	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 and packaging paper:	-	-	-	-	-	-
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping and packaging paper	-	-	-	-	-	-
4.32.4 Folding boxboard:	27	27	27	27	27	27
4.32.41 Solid bleached board	..	..	..	..	..	..
4.32.42 Other folding boxboard	..	..	..	..	..	..
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	29	29	29	29	29	29
4.32.51 Paper	6	6	6	6	6	6
4.32.52 Paperboard	23	23	23	23	23	23
4.33 Other paper and paperboard, n.e.s., total:	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

	1976	1977	1978	1979	1980	1981
Total capacity	of which market pulp	Total capacity of market pulp	Total capacity			
- - - - - 1,000 metric tons (air dry) per year - - - - -						
60 Country: PHILIPPINES						
1 Wood pulp for making paper and paperboard, total:	222	-	228	-	228	-
1.1 Mechanical	57	-	63	-	63	-
1.11 of which: non-coniferous	57	-	63	-	63	-
1.2 Chemi-mechanical and semi-chemical	-	-	-	-	-	-
1.21 of which: non-coniferous	-	-	-	-	-	-
1.3 Chemical, total:	165	-	165	-	165	-
1.31 Unbleached sulphite	-	-	-	-	-	-
1.31.1 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	-	-	-	-	-	-
1.32.1 of which: non-coniferous	-	-	-	-	-	-
1.33 Unbleached sulphate and soda	90	-	90	-	90	-
1.33.1 of which: non-coniferous	90	-	90	-	90	-
1.34 Bleached and semibleached sulphate and soda	75	-	75	-	75	-
1.34.1 of which: non-coniferous	75	-	75	-	75	-
2 Other fibre pulp for making paper and paperboard, total:	50	21	50	21	50	21
2.1 Straw	-	-	-	-	-	-
2.2 Bagasse	27	-	27	-	27	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	23	21	23	21	23	23
3 Dissolving pulp (wood and other fibrous raw materials)	-	-	-	-	-	-
3.1 of which: non-coniferous	-	-	-	-	-	-

60 Country: PHILIPPINES							1976	1977	1978	1979	1980	1981
							1,000 metric tons per year					
4 Paper and Paperboard, total:							404	418	435	440	442	442
4.1 Newsprint							98	105	105	105	105	105
4.2 Other printing and writing paper, total:							49	49	49	49	49	49
4.21 Coated:							..	..	..	..	..	..
4.21.1 Wood containing							-	-	-	-	-	-
4.21.2 Wood free							..	..	..	..	..	..
4.22 Uncoated:							49	49	49	49	49	49
4.22.1 Wood containing							-	-	-	-	-	-
4.22.2 Wood free							49	49	49	49	49	49
4.3 Other paper and paperboard, total:							257	264	281	286	288	288
4.31 Household and sanitary paper							18	18	18	18	18	18
4.32 Wrapping and packaging paper and paperboard, total:							239	246	263	268	270	270
4.32.1 Linerboard:							58	58	58	58	58	58
4.32.11 Kraft liner:							58	58	58	58	58	58
4.32.11.1 Unbleached							..	..	..	..	..	..
4.32.11.2 Bleached							..	..	..	..	..	..
4.32.12 Other linerboard							-	-	-	-	-	-
4.32.2 Fluting medium:							58	58	58	58	58	58
4.32.21 Semi-chemical							..	..	..	..	..	..
4.32.22 Other fluting medium							..	..	..	..	..	..
4.32.3 Kraft wrapping and packaging paper:							79	86	86	86	86	86
4.32.31 Sack kraft							52	59	59	59	59	59
4.32.32 Other kraft wrapping and packaging paper							27	27	27	27	27	27
4.32.4 Folding boxboard:							44	44	61	66	68	68
4.32.41 Solid bleached board							..	..	..	..	..	..
4.32.42 Other folding boxboard							..	..	..	..	..	..
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:							-	-	-	-	-	-
4.32.51 Paper							-	-	-	-	-	-
4.32.52 Paperboard							-	-	-	-	-	-
4.33 Other paper and paperboard, n.e.s., total:							-	-	-	-	-	-
4.33.1 Paper, n.e.s.							-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.							-	-	-	-	-	-

	1976	1977	1978	1979	1980	1981
	Total capacity	of which market pulp	Total capacity	of which market pulp	Total capacity	of which market pulp
61 Country: SINGAPORE						
1 Wood pulp for making paper and paperboard, total:	-	-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-
1.11 of which: non-coniferous	-	-	-	-	-	-
1.2 Chemi-mechanical and semi-chemical	-	-	-	-	-	-
1.21 of which: non-coniferous	-	-	-	-	-	-
1.3 Chemical, total:	-	-	-	-	-	-
1.31 Unbleached sulphite	-	-	-	-	-	-
1.31.1 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	-	-	-	-	-	-
1.32.1 of which: non-coniferous	-	-	-	-	-	-
1.33 Unbleached sulphate and soda	-	-	-	-	-	-
1.33.1 of which: non-coniferous	-	-	-	-	-	-
1.34 Bleached and semibleached sulphate and soda	-	-	-	-	-	-
1.34.1 of which: non-coniferous	-	-	-	-	-	-
2 Other fibre pulp for making paper and paperboard, total:	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	-	-	-	-	-	-
3 Dissolving pulp (wood and other fibrous raw materials)	-	-	-	-	-	-
3.1 of which: non-coniferous	-	-	-	-	-	-

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
61 Country: SINGAPORE						
4 Paper and Paperboard, total:	29	29	29	29	29	29
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, total:	15	15	15	15	15	15
4.21 Coated:	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated:	15	15	15	15	15	15
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	15	15	15	15	15	15
4.3 Other paper and paperboard, total:	14	14	14	14	14	14
4.31 Household and sanitary paper	4	4	4	4	4	4
4.32 Wrapping and packaging paper and paperboard, total:	10	10	10	10	10	10
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 and packaging paper:	-	-	-	-	-	-
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping and packaging paper	-	-	-	-	-	-
4.32.4 Folding boxboard:	-	-	-	-	-	-
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	-	-	-	-	-	-
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	10	10	10	10	10	10
4.32.51 Paper	5	5	5	5	5	5
4.32.52 Paperboard	5	5	5	5	5	5
4.33 Other paper and paperboard, n.e.s., total:	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

	1976	1977	1978	1979	1980	1981
	Total capacity of which market pulp	Total capacity				
62 Country: SRI LANKA						
1 Wood pulp for making paper and paperboard, total:	-	-	-	-	-	-
1.1 Mechanical	-	-	-	-	-	-
1.11 of which: non-coniferous	-	-	-	-	-	-
1.2 Chemi-mechanical and semi-chemical	-	-	-	-	-	-
1.21 of which: non-coniferous	-	-	-	-	-	-
1.3 Chemical, total:	-	-	-	-	-	-
1.31 Unbleached sulphite	-	-	-	-	-	-
1.31.1 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	-	-	-	-	-	-
1.32.1 of which: non-coniferous	-	-	-	-	-	-
1.33 Unbleached sulphate and soda	-	-	-	-	-	-
1.33.1 of which: non-coniferous	-	-	-	-	-	-
1.34 Bleached and semibleached sulphate and soda	-	-	-	-	-	-
1.34.1 of which: non-coniferous	-	-	-	-	-	-
2 Other fibre pulp for making paper and paperboard, total:	14	-	20	-	22	-
2.1 Straw	14	-	19	-	18	-
2.2 Bagasse	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	-	1	-	4	-	4
3 Dissolving pulp (wood and other fibrous raw materials)	-	-	-	-	-	-
3.1 of which: non-coniferous	-	-	-	-	-	-

62 Country: SRI LANKA

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	23	33	36	38	38	38
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, total:	11	21	24	26	26	26
4.21 Coated:	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated:	11	21	24	26	26	26
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	11	21	24	26	26	26
4.3 Other paper and paperboard, total:	12	12	12	12	12	12
4.31 Household and sanitary paper	-	-	-	-	-	-
4.32 Wrapping and packaging paper and paperboard, total:	11	11	11	11	11	11
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:	3	3	3	3	3	3
4.32.21 Semi-chemical	3	3	3	3	3	3
4.32.22 Other fluting medium	-	-	-	-	-	-
4.32.3 Kraft wrapping and packaging paper:	1	1	1	1	1	1
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping and packaging paper	1	1	1	1	1	1
4.32.4 Folding boxboard:	4	4	4	4	4	4
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	4	4	4	4	4	4
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	2	2	2	2	2	2
4.32.51 Paper	-	-	-	-	-	-
4.32.52 Paperboard	2	2	2	2	2	2
4.33 Other paper and paperboard, n.e.s., total:	1	1	1	1	1	1
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	1	1	1	1	1	1

63 Country: SYRIA

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	-	-	-	40	55	60
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, total:	-	-	20	25	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 and paperboard, total:	-	-	20	30	30	
4.31 Household and sanitary paper	-	-	-	-	-	
4.32 Wrapping and packaging paper and paperboard, total:	-	-	20	30	30	
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 and packaging paper:	-	-	-	-	-	
4.32.31 Sack kraft	-	-	-	-	-	
4.32.32 Other kraft wrapping and packaging paper	-	-	-	-	-	
4.32.4 Folding Boxboard:	-	-	-	-	-	
4.32.41 Solid bleached board	-	-	-	-	-	
4.32.42 Other folding boxboard	-	-	-	-	-	
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	-	-	20	30	30	
4.32.51 Paper	-	-	20	30	30	
4.32.52 Paperboard	-	-	-	-	-	
4.33 Other paper and paperboard, n.e.s., total:	-	-	-	-	-	
4.33.1 Paper, n.e.s.	-	-	-	-	-	
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	

	1976	1977	1978	1979	1980	1981
Total capacity	Total capacity of which market pulp	Total capacity				
--- 1,000 metric tons (air dry) per year ---						
64 Country: THAILAND						
1 Wood pulp for making paper and paperboard, total:	40	-	40	-	40	-
1.1 Mechanical	-	-	-	-	-	-
1.11 of which: non-coniferous	-	-	-	-	-	-
1.2 Chemi-mechanical and semi-chemical	-	-	-	-	-	-
1.21 of which: non-coniferous	-	-	-	-	-	-
1.3 Chemical, total:	40	-	40	-	40	-
1.31 Unbleached sulphite	-	-	-	-	-	-
1.31.1 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	-	-	-	-	-	-
1.32.1 of which: non-coniferous	-	-	-	-	-	-
1.33 Unbleached sulphate and soda	30	-	30	-	30	-
1.33.1 of which: non-coniferous	..	-	..	-	..	..
1.34 Bleached and semibleached sulphate and soda	10	-	10	-	10	-
1.34.1 of which: non-coniferous	..	-	..	-	..	..
2 Other fibre pulp for making paper and paperboard, total:	76	-	76	-	76	-
2.1 Straw	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-
2.3 Bamboo	6	-	6	-	6	-
2.4 Other (reeds, esparto, rags, etc.)	70	-	70	-	70	-
3 Dissolving pulp (wood and other fibrous raw materials)	-	-	-	-	-	-
3.1 of which: non-coniferous	-	-	-	-	-	-

64 Country: THAILAND

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	362	362	362	362	362	362
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, total:	50	50	50	50	50	50
4.21 Coated:	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated:	50	50	50	50	50	50
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	50	50	50	50	50	50
4.3 Other paper and paperboard, total:	312	312	312	312	312	312
4.31 Household and sanitary paper	21	21	21	21	21	21
4.32 Wrapping and packaging paper and paperboard, total:	289	289	289	289	289	289
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 and packaging paper	..	..	..	..	..	..
4.32.31 Sack kraft	..	..	..	..	..	..
4.32.32 Other kraft wrapping and packaging paper	..	..	..	..	..	..
4.32.4 Folding boxboard:	..	..	..	..	..	..
4.32.41 Solid bleached board	..	..	..	..	..	..
4.32.42 Other folding boxboard	..	..	..	..	..	..
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	..	..	..	..	..	..
4.32.51 Paper	..	..	..	..	..	..
4.32.52 Paperboard	..	..	..	..	..	..
4.33 Other paper and paperboard, 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.	-	-	-	-	-	-

65 Country: TURKEY

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	496	597	613	730	769	816
4.1 Newsprint	83	83	83	143	163	173
4.2 Other printing and writing paper, total:	77	103	103	103	103	103
4.21 Coated:	-	10	30	35	39	40
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	10	30	35	39	40
4.22 Uncoated:	77	93	73	68	64	63
4.22.1 Wood containing	29	45	25	20	16	15
4.22.2 Wood free	48	48	48	48	48	48
4.3 Other paper and paperboard, total:	336	411	427	484	503	540
4.31 Household and sanitary paper	5	5	5	5	5	5
4.32 Wrapping and packaging paper and paperboard, total:	329	404	420	477	495	531
4.32.1 Linerboard:	66	66	66	97	114	140
4.32.11 Kraft liner:	26	26	26	57	74	90
4.32.11.1 Unbleached	26	26	26	57	74	90
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	40	40	40	40	40	50
4.32.2 Fluting medium:	23	28	43	43	43	43
4.32.21 Semi-chemical	10	15	15	15	15	15
4.32.22 Other fluting medium	13	13	28	28	28	28
4.32.3 Kraft wrapping and packaging paper:	79	107	108	134	135	142
4.32.31 Sack kraft	60	60	61	87	88	89
4.32.32 Other kraft wrapping and packaging paper	19	47	47	47	47	53
4.32.4 Folding boxboard:	42	42	42	42	42	45
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	42	42	42	42	42	45
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	119	161	161	161	161	161
4.32.51 Paper	35	35	35	35	35	35
4.32.52 Paperboard	84	126	126	126	126	126
4.33 Other paper and paperboard, n.e.s., total:	2	2	2	2	3	4
4.33.1 Paper, n.e.s.	2	2	2	2	3	4
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

	1976	1977	1978	1979	1980	1981
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 of which market pulp	Total capacity
66 Country: VIET NAM, SOCIALIST REPUBLIC (a)						
			-- 1,000 metric tons (air dry) per year --			
1 Wood pulp for making paper and paperboard, total:	10	-	10	-	10	-
1.1 Mechanical	10	-	10	-	10	-
1.11 of which: non-coniferous	-	-	-	-	-	-
1.2 Chemi-mechanical and semi-chemical	-	-	-	-	-	-
1.21 of which: non-coniferous	-	-	-	-	-	-
1.3 Chemical, total:	-	-	-	-	15	30
1.31 Unbleached sulphite	-	-	-	-	-	-
1.31.1 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	-	-	-	-	-	-
1.32.1 of which: non-coniferous	-	-	-	-	-	-
1.33 Unbleached sulphate and soda	-	-	-	-	-	-
1.33.1 of which: non-coniferous	-	-	-	-	-	-
1.34 Bleached and semibleached sulphate and soda	-	-	-	-	-	-
1.34.1 of which: non-coniferous	-	-	-	-	-	-
2 Other fibre pulp for making paper and paperboard, total:	10	-	10	-	10	-
2.1 Straw	-	-	-	-	-	-
2.2 Bagasse	10	-	10	-	10	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	-	-	-	-	-	-
3 Dissolving pulp (wood and other fibrous raw materials)	-	-	-	-	-	-
3.1 of which: non-coniferous	-	-	-	-	-	-

(a) Secretariat estimate.

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	62	62	62	78	95	112
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, total:	37	37	37	52	67	82
4.21 Coated:	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated:	37	37	37	52	67	82
4.22.1 Wood containing	10	10	10	10	10	10
4.22.2 Wood free	27	27	27	42	57	72
4.3 Other paper and paperboard, total:	25	25	25	26	28	30
4.31 Household and sanitary paper	-	-	-	-	-	-
4.32 Wrapping and packaging paper and paperboard, total:	25	25	25	26	28	30
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 and packaging paper:	-	-	-	-	-	-
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping and packaging paper	-	-	-	-	-	-
4.32.4 Folding boxboard:	-	-	-	-	-	-
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	-	-	-	-	-	-
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	25	25	25	26	28	30
4.32.51 Paper	25	25	25	26	28	30
4.32.52 Paperboard	-	-	-	-	-	-
4.33 Other paper and paperboard, n.e.s., total:	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

(a) Secretariat estimate.

	Total capacity	of which market pulp	Total capacity	of which market pulp	1,000 metric tons (air dry) per year				Total capacity	Total capacity
					1976	1977	1978	1979		
67 Country: ALBANIA (a)										
1 Wood pulp for making paper and paperboard, total:	10	-	10	-	10	-	10	-	10	10
1.1 Mechanical	-	-	-	-	-	-	-	-	-	-
1.11 of which: non-coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Chemi-mechanical and semi-chemical	-	-	-	-	-	-	-	-	-	-
1.21 of which: non-coniferous	-	-	-	-	-	-	-	-	-	-
1.3 Chemical, total:	10	-	10	-	10	-	10	-	10	10
1.31 Unbleached sulphite	..	..	..	..	..	..	..	..	..	..
1.31.1 of which: non-coniferous	..	..	..	..	..	..	..	..	..	..
1.32 Bleached and semibleached sulphite	..	..	..	..	..	..	..	..	..	..
1.32.1 of which: non-coniferous	..	..	..	..	..	..	..	..	..	..
1.33 Unbleached sulphate and soda	..	..	..	..	..	..	..	..	..	..
1.33.1 of which: non-coniferous	..	..	..	..	..	..	..	..	..	..
1.34 Bleached and semibleached sulphate and soda	..	..	..	..	..	..	..	..	..	..
1.34.1 of which: non-coniferous	..	..	..	..	..	..	..	..	..	..
2 Other fibre pulp for making paper and paperboard, 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 (reeds, esparto, rags, etc.)	-	-	-	-	-	-	-	-	-	-
3 Dissolving pulp (wood and other fibrous raw materials)	-	-	-	-	-	-	-	-	-	-
3.1 of which: non-coniferous	-	-	-	-	-	-	-	-	-	-

(a) Secretariat estimate.

67 Country: ALBANIA (a)

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	15	15	15	15	15	15
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, 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 and paperboard, total:	8	8	8	8	8	8
4.31 Household and sanitary paper	-	-	-	-	-	-
4.32 Wrapping and packaging paper and paperboard, 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 and packaging paper:	-	-	-	-	-	-
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping and packaging paper	-	-	-	-	-	-
4.32.4 Folding boxboard:	-	-	-	-	-	-
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	-	-	-	-	-	-
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	-	-	-	-	-	-
4.32.51 Paper	-	-	-	-	-	-
4.32.52 Paperboard	-	-	-	-	-	-
4.33 Other paper and paperboard, 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

(a) Secretariat estimate.

	1976	1977	1978	1979	1980	1981
Total capacity	Total capacity of which market pulp	Total capacity				
--- 1,000 metric tons (air dry) per year ---						
68 Country: AUSTRIA						
1 Wood pulp for making paper and paperboard, total:	942	214	981	218	1,002	225
1.1 Mechanical	210	2	237	2	237	1
1.11 of which: non-coniferous	-	-	-	-	-	-
1.2 Chemi-mechanical and semi-chemical	55	6	55	6	55	10
1.21 of which: non-coniferous	-	-	-	-	-	-
1.3 Chemical, total:	677	206	689	210	710	218
1.31 Unbleached sulphite	28	8	28	8	28	8
1.31.1 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	434	180	441	180	457	185
1.32.1 of which: non-coniferous	108	45	110	45	114	46
1.33 Unbleached sulphite and soda	209	17	214	22	219	25
1.33.1 of which: non-coniferous	-	-	-	-	-	-
1.34 Bleached and semibleached sulphite and soda	6	1	6	-	6	-
1.34.1 of which: non-coniferous	-	-	-	-	-	-
2 Other fibre pulp for making paper and paperboard, total:	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	-	-	-	-	-	-
3 Dissolving pulp (wood and other fibrous raw materials)	121	23	121	23	121	23
3.1 of which: non-coniferous	121	23	121	23	121	23

68 Country: AUSTRALIA

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	1,420	1,440	1,530	1,561	1,575	1,578
4.1 Newsprint	140	140	140	140	140	140
4.2 Other printing and writing paper, total:	625	625	688	688	699	699
4.21 Coated:	152	152	153	153	154	154
4.21.1 Wood containing	20	20	20	20	20	20
4.21.2 Wood free	132	132	133	133	134	134
4.22 Uncoated:	473	473	535	535	545	545
4.22.1 Wood containing	178	178	235	235	240	240
4.22.2 Wood free	295	295	300	300	305	305
4.3 Other paper and paperboard, total:	655	675	702	733	736	739
4.31 Household and sanitary paper	91	91	91	91	91	91
4.32 Wrapping and packaging paper and paperboard, total:	508	528	555	584	587	590
4.32.1 Linerboard:	87	87	87	87	90	90
4.32.11 Kraft liner:	87	87	87	87	90	90
4.32.11.1 Unbleached	87	87	87	87	90	90
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium:	90	90	115	140	140	140
4.32.21 Semi-chemical	..	..	..	..	..	..
4.32.22 Other fluting medium	..	..	..	..	..	..
4.32.3 Kraft wrapping and packaging paper:	108	110	110	112	112	115
4.32.31 Sack kraft	78	80	80	80	80	80
4.32.32 Other kraft wrapping and packaging paper	30	30	30	32	32	35
4.32.4 Folding boxboard:	160	178	180	180	180	180
4.32.41 Solid bleached board	..	..	..	..	..	..
4.32.42 Other folding boxboard	..	..	..	..	..	..
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	63	63	63	65	65	65
4.32.51 Paper	49	49	49	50	50	50
4.32.52 Paperboard	14	14	14	15	15	15
4.33 Other paper and paperboard, n.e.s., total:	56	56	56	58	58	58
4.33.1 Paper, n.e.s.	29	29	29	30	30	30
4.33.2 Paperboard, n.e.s.	27	27	27	28	28	28

69 Country: BELGIUM

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	867	891	933	959	970	970
4.1 Newsprint	95	95	95	95	95	95
4.2 Other printing and writing paper, total:	410	410	410	415	415	415
4.21 Coated:	140	140	140	140	140	140
4.21.1 Wood containing	..	..	..	..	..	..
4.21.2 Wood free	..	..	..	..	..	..
4.22 Uncoated:	270	270	270	275	275	275
4.22.1 Wood containing	140	140	140	140	140	140
4.22.2 Wood free	130	130	130	135	135	135
4.3 Other paper and paperboard, total:	362	396	428	449	460	460
4.31 Household and sanitary paper	63	80	110	120	120	120
4.32 Wrapping and packaging paper and paperboard, total:	246	253	265	276	287	287
4.32.1 Linerboard:	25	35	40	45	50	50
4.32.11 Kraft liner:	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	25	35	40	45	50	50
4.32.2 Fluting medium:	46	55	60	65	70	70
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	46	55	60	65	70	70
4.32.3 Kraft wrapping and packaging paper:	30	30	30	30	30	30
4.32.31 Sack kraft	15	15	15	15	15	15
4.32.32 Other kraft wrapping and packaging paper	15	15	15	15	15	15
4.32.4 Folding board:	45	30	30	30	30	30
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	45	30	30	30	30	30
4.32.5 Other wrapping and packaging paper and paperboard, n. e.s.:	100	103	105	106	107	107
4.32.51 Paper	74	77	78	79	80	80
4.32.52 Paperboard	26	26	27	27	27	27
4.33 Other paper and paperboard, n. e.s., total:	53	53	53	53	53	53
4.33.1 Paper, n. e.s.	12	12	12	12	12	12
4.33.2 Paperboard, n. e.s.	41	41	41	41	41	41

	1976	1977	1978	1979	1980	1981
	Total capacity of market pulp					
70 Country: BULGARIA						
1 Wood pulp for making paper and paperboard, total:	262	100	262	100	262	100
1.1 Mechanical	17	7	17	7	17	7
1.11 of which: non-coniferous	-	-	-	-	-	-
1.2 Chemi-mechanical and semi-chemical	90	50	90	50	90	50
1.21 of which: non-coniferous	90	50	90	50	90	50
1.3 Chemical, total:	155	45	155	45	155	45
1.31 Unbleached sulphite	-	-	-	-	-	-
1.31.1 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	-	-	-	-	-	-
1.32.1 of which: non-coniferous	-	-	-	-	-	-
1.33 Unbleached sulphate and soda	155	45	155	45	155	45
1.33.1 of which: non-coniferous	-	-	-	-	-	-
1.34 Bleached and semibleached sulphate and soda	-	-	-	-	-	-
1.34.1 of which: non-coniferous	-	-	-	-	-	-
2 Other fibre pulp for making paper and paperboard, total:						
2.1 Straw	28	20	28	16	28	16
2.2 Bagasse	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	-	-	-	-	-	-
3 Dissolving pulp (wood and other fibrous raw materials)						
3.1 of which: non-coniferous	-	-	-	-	-	-

70 Country: BULGARIA

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	413	424	424	449	496	496
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, total:	78	78	78	78	78	78
4.21 Coated:	6	6	6	5	6	6
4.21.1 Wood containing	-	-	-	-	-	-
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 and paperboard, total:	335	346	346	371	418	418
4.31 Household and sanitary paper	7	7	7	7	7	7
4.32 Wrapping and packaging paper and paperboard, total:	302	302	302	327	380	380
4.32.1 Linerboard:	95	95	95	95	95	95
4.32.11 Kraft liner:	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	95	95	95	95	95	95
4.32.2 Fluting medium:	73	73	73	73	129	129
4.32.21 Semi-chemical	60	60	60	60	60	60
4.32.22 Other fluting medium	13	13	13	13	69	69
4.32.3 Kraft wrapping and packaging paper:	56	56	56	56	55	55
4.32.31 Sack kraft	40	40	40	40	40	40
4.32.32 Other kraft wrapping and packaging paper	16	16	16	16	15	15
4.32.4 Folding boxboard:	52	52	52	52	52	52
4.32.41 Solid bleached board	2	2	2	2	2	2
4.32.42 Other folding boxboard	50	50	50	50	50	50
4.32.5 Other wrapping and packaging paper and paperboard, n. e.s.:	26	26	51	48	48	48
4.32.51 Paper	26	26	51	48	48	48
4.32.52 Paperboard	-	-	-	-	-	-
4.33 Other paper and paperboard, n. e.s., total:	26	37	37	31	31	31
4.33.1 Paper, n. e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n. e.s.	26	37	37	31	31	31

	1976	1977	1978	1979	1980	1981
	Total capacity of market pulp					
71 Country: CZECHOSLOVAKIA						
1 Wood pulp for making paper and paperboard, total:	864	..	865	..	865	..
1.1 Mechanical	174	..	175	..	176	..
1.1.1 of which: non-coniferous	-	-	-	-	-	-
1.1.2 Chemi-mechanical and semi-chemical	127	..	127	..	127	..
1.21 of which: non-coniferous	63	..	63	..	63	..
1.3 Chemical, total:	563	..	562	..	562	..
1.31 Unbleached sulphite	149	..	132	..	132	..
1.31.1 of which: non-coniferous	..	..	..	..	..	..
1.32 Bleached and semibleached sulphite	116	..	116	..	116	..
1.32.1 of which: non-coniferous	-	-	-	-	-	-
1.33 Unbleached sulphate and soda	171	..	187	..	187	..
1.33.1 of which: non-coniferous	-	-	-	-	-	-
1.34 Bleached and semibleached sulphate and soda	127	..	127	..	127	..
1.34.1 of which: non-coniferous	6	..	6	..	17	..
----- 1,000 metric tons (air dry) per year -----						
2 Other fibre pulp for making paper and paperboard, total:	15	..	15	..	15	..
2.1 Straw	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	15	..	15	..	15	..
3 Dissolving pulp (wood and other fibrous raw materials)	78	..	78	..	120	..
3.1 of which: non-coniferous	31	..	31	..	60	..
					.67	..
					70	70
					141	141

71 Country: CZECHOSLOVAKIA

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	1,180	1,210	1,233	1,258	1,263	1,263
4.1 Newsprint	77	77	77	77	77	77
4.2 Other printing and writing paper, total:	160	160	160	153	153	153
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 and paperboard, total:	943	973	996	1,028	1,033	1,033
4.31 Household and sanitary paper	70	75	80	85	90	90
4.32 Wrapping and packaging paper and paperboard, total:	773	798	816	843	843	843
4.32.1 Linerboard:	..	..	..	..	..	..
4.32.11 Kraft liner:	53	62	73	97	97	97
4.32.11.1 Unbleached	..	..	..	..	..	..
4.32.11.2 Bleached	..	..	..	..	..	..
4.32.12 Other linerboard	..	..	..	..	..	..
4.32.2 Fluting medium:	157	152	160	155	155	155
4.32.21 Semi-chemical	..	..	..	..	..	..
4.32.22 Other fluting medium	..	..	..	..	..	..
4.32.3 Kraft wrapping and packaging paper:	134	154	148	124	124	124
4.32.31 Sack kraft	109	129	123	99	99	99
4.32.32 Other kraft wrapping and packaging paper	25	25	25	25	25	25
4.32.4 Folding boxboard:	102	102	102	102	102	102
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	102	102	102	102	102	102
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	327	328	333	365	365	365
4.32.51 Paper	184	174	179	211	211	211
4.32.52 Paperboard	143	154	154	154	154	154
4.33 Other paper and paperboard, n.e.s., total:	100	100	100	100	100	100
4.33.1 Paper, n.e.s.	50	50	50	50	50	50
4.33.2 Paperboard, n.e.s.	50	50	50	50	50	50

	1976	1977	1978	1979	1980	1981
	Total capacity of market pulp					
Country: DENMARK						
1. Wood pulp for making paper and paperboard, total:	132	125	132	125	132	125
1.1 Mechanical	7	-	7	-	7	-
1.11 of which: non-coniferous	-	-	-	-	-	-
1.2 Chemi-mechanical and semi-chemical	125	125	125	125	125	125
1.21 of which: non-coniferous	125	125	125	125	125	125
1.3 Chemical, total:	-	-	-	-	-	-
1.31 Unbleached sulphite	-	-	-	-	-	-
1.31.1 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	-	-	-	-	-	-
1.32.1 of which: non-coniferous	-	-	-	-	-	-
1.33 Unbleached sulphate and soda	-	-	-	-	-	-
1.33.1 of which: non-coniferous	-	-	-	-	-	-
1.34 Bleached and semibleached sulphate and soda	-	-	-	-	-	-
1.34.1 of which: non-coniferous	-	-	-	-	-	-
2 Other fibre pulp for making paper and paperboard, total:	70	70	70	73	73	73
2.1 Straw	45	45	45	45	45	45
2.2 Bagasse	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	25	25	25	28	28	28
3 Dissolving pulp (wood and other fibrous raw materials)	-	-	-	-	-	-
3.1 of which: non-coniferous	-	-	-	-	-	-

72 Country: DENMARK

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	294	300	300	300	300	300
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, total:	110	115	115	115	115	115
4.21 Coated:	30	30	30	30	30	30
4.21.1 Wood containing	..	..	..	..	..	..
4.21.2 Wood free	..	..	..	..	..	..
4.22 Uncoated:	80	85	85	85	85	85
4.22.1 Wood containing	..	..	..	..	..	..
4.22.2 Wood free	..	..	..	..	..	..
4.3 Other paper and paperboard, total:	184	185	185	185	185	185
4.31 Household and sanitary paper	15	15	15	15	15	15
4.32 Wrapping and packaging paper and paperboard, total:	163	163	163	163	163	163
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:	60	60	60	60	60	60
4.32.21 Semi-chemical	25	25	25	25	25	25
4.32.22 Other fluting medium	35	35	35	35	35	35
4.32.3 Kraft wrapping and packaging paper:	16	16	16	16	16	16
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping and packaging paper	16	16	16	16	16	16
4.32.4 Folding boxboard:	48	48	48	48	48	48
4.32.42 Other folding boxboard	48	48	48	48	48	48
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	39	39	39	39	39	39
4.32.51 Paper	15	15	15	15	15	15
4.32.52 Paperboard	24	24	24	24	24	24
4.33 Other paper and paperboard, n.e.s., total:	6	7	7	7	7	7
4.33.1 Paper, n.e.s.	6	7	7	7	7	7
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

	1976	1977	1978	1979	1980	1981
Total capacity	of which market pulp	Total capacity of market pulp	Total capacity			
- - - - - 1,000 metric tons (air dry) per year - - - - -						
73 Country: FINLAND						
1 Wood pulp for making paper and paperboard, total:	7,215	1,870	7,535	2,000	7,745	2,060
1.1 Mechanical	2,590	50	2,710	50	2,780	50
1.11 of which: non-coniferous	-	-	-	-	-	-
1.2 Chemi-mechanical and semi-chemical	435	20	435	20	395	20
1.21 of which: non-coniferous	435	20	435	20	395	20
1.3 Chemical, total:	4,190	1,800	4,390	1,930	4,570	1,950
1.31 Unbleached sulphite	540	190	500	150	430	130
1.31.1 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	570	280	540	270	420	230
1.32.1 of which: non-coniferous	60	30	60	30	60	30
1.33 Unbleached sulphate and soda	1,320	270	1,320	290	1,320	290
1.33.1 of which: non-coniferous	20	-	20	-	20	-
1.34 Bleached and semibleached sulphate and soda	1,760	1,050	2,030	1,220	2,400	1,340
1.34.1 of which: non-coniferous	760	570	900	670	1,030	720
2 Other fibre pulp for making paper and paperboard, total:	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	-	-	-	-	-	-
3 Dissolving pulp (wood and other fibrous raw materials)	260	260	270	270	280	280
3.1 of which: non-coniferous	65	65	65	65	70	70

73 Country: FINLAND

	1976	1977	1978	1979	1980	1981
- - - - - 1,000 metric tons per year - - - - -						
4 Paper and Paperboard, total:	6,207	6,315	6,415	6,475	6,585	6,760
4.1 Newprint	1,310	1,340	1,410	1,370	1,355	1,350
4.2 Other printing and writing paper, total:	2,185	2,240	2,290	2,370	2,415	2,565
4.21 Coated:						
4.21.1 Wood containing	410	445	475	475	480	480
4.21.2 Wood free	55	55	60	65	65	65
4.22 Uncoated:	1,720	1,740	1,755	1,830	1,870	2,020
4.22.1 Wood containing	1,370	1,385	1,400	1,470	1,510	1,545
4.22.2 Wood free	350	355	355	360	360	475
4.3 Other paper and paperboard, total:	2,712	2,735	2,715	2,735	2,815	2,845
4.31 Household and sanitary paper	148	150	155	155	155	160
4.32 Wrapping and packaging paper and paperboard, total:	2,102	2,115	2,065	2,085	2,165	2,190
4.32.1 Linerboard:						
4.32.11 Kraft liner:	545	545	520	515	515	510
4.32.11.1 Unbleached	515	515	490	485	485	480
4.32.11.2 Bleached	60	60	60	60	60	60
4.32.12 Other linerboard	30	30	30	30	30	30
4.32.2 Fluting medium:						
4.32.21 Semi-chemical	350	350	295	295	295	295
4.32.22 Other fluting medium	-	-	-	-	-	-
4.32.3 Kraft wrapping and packaging paper:	425	425	425	435	450	450
4.32.31 Sack kraft	330	330	330	340	355	355
4.32.32 Other kraft wrapping and packaging paper	95	95	95	95	95	95
4.32.4 Folding boxboard:						
4.32.41 Solid bleached board	222	225	240	24C	250	255
4.32.42 Other folding boxboard	380	385	395	410	460	480
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:						
4.32.51 Paper	180	185	190	195	200	200
4.32.52 Paperboard	70	70	70	70	70	70
4.33 Other paper and paperboard, n.e.s., total:						
4.33.1 Paper, n.e.s.	462	470	495	495	495	495
4.33.2 Paperboard, n.e.s.	314	320	345	345	345	345
	148	150	150	150	150	150

74 Country: FRANCE

	1976	1977	1978	1979	1980	1981
	Total capacity of market pulp	Total capacity of market pulp	Total capacity of market pulp	Total capacity of market pulp	Total capacity of market pulp	Total capacity of market pulp
----- 1,000 metric tons (air dry) per year -----						
1 Wood pulp for making paper and paperboard, total:	2,070	545	2,110	545	2,205	575
1.1 Mechanical	500	5	515	5	545	5
1.11 of which: non-coniferous	-	-	-	-	-	-
1.2 Chemi-mechanical and semi-chemical	275	-	300	-	300	-
1.21 of which: non-coniferous	230	-	275	-	300	-
1.3 Chemical, total:	1,295	540	1,295	540	1,360	570
1.31 Unbleached sulphite	20	10	20	10	20	10
1.31.1 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	200	155	200	155	235	175
1.32.1 of which: non-coniferous	45	10	45	10	60	10
1.33 Unbleached sulphate and soda	500	-	500	-	500	-
1.33.1 of which: non-coniferous	-	-	-	-	-	-
1.34 Bleached and semibleached sulphate and soda	575	375	575	375	605	385
1.34.1 of which: non-coniferous	400	300	400	300	400	300
2 Other fibre pulp for making paper and paperboard, totals:	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	-	-	-	-	-	-
3 Dissolving pulp (wood and other fibrous raw materials)	130	130	130	130	130	130
3.1 of which: non-coniferous	90	90	90	90	90	90

74 Country: FRANCE

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	5,610	5,840	6,240	6,340	6,410	6,410
4.1 Newsprint	300	300	300	300	.300	.300
4.2 Other printing and writing paper, total:	1,815	1,865	2,010	2,020	2,050	2,050
4.21 Coated:	650	660	670	670	670	670
4.21.1 Wood containing	370	370	370	370	370	370
4.21.2 Wood free	280	290	300	300	300	300
4.22 Uncoated:	1,165	1,205	1,340	1,350	1,380	1,380
4.22.1 Wood containing	315	325	360	365	370	370
4.22.2 Wood free	850	880	980	985	1,010	1,010
4.3 Other paper and paperboard, total:	3,495	3,675	3,930	4,020	4,060	4,060
4.31 Household and sanitary paper	185	190	240	240	245	245
4.32 Wrapping and packaging paper and paperboard, total:	2,870	3,035	3,225	3,310	3,345	3,345
4.32.1 Linerboard:	950	1,005	1,070	1,120	1,130	1,130
4.32.11 Kraft liner:	300	310	320	330	330	330
4.32.11.1 Unbleached	250	255	260	265	265	265
4.32.11.2 Bleached	50	55	60	65	65	65
4.32.12 Other linerboard	650	695	750	790	800	800
4.32.2 Fluting medium:	590	635	690	705	710	710
4.32.21 Semi-chemical	320	350	380	390	395	395
4.32.22 Other fluting medium	270	285	310	315	315	315
4.32.3 Kraft wrapping and packaging paper:	430	455	480	485	495	495
4.32.31 Sack kraft	145	150	155	155	160	160
4.32.32 Other kraft wrapping and packaging paper:	285	305	325	330	335	335
4.32.4 Folding boxboard:	340	355	375	380	385	385
4.32.41 Solid bleached board	135	140	150	150	155	155
4.32.42 Other folding boxboard	205	215	225	230	230	230
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	560	585	610	620	625	625
4.32.51 Paper	305	315	325	330	330	330
4.32.52 Paperboard	255	270	285	290	295	295
4.33 Other paper and paperboard, n.e.s., total:	440	450	465	470	470	470
4.33.1 Paper, n.e.s.	360	365	375	380	380	380
4.33.2 Paperboard, n.e.s.	80	85	90	90	90	90

	Country:	Total capacity	of which market pulp	1,000 metric tons (air dry) per year				Total capacity	Total capacity
				1976	1977	1978	1979		
75 Country: GERMAN DEMOCRATIC REPUBLIC (a)									
1	Wood pulp for making paper and paperboard, total:	850	-	885	-	1,000	-	1,035	-
1.1	Mechanical	445	-	445	-	445	-	445	445
1.11	of which: non-coniferous	..	-	..	-	..	-	..	..
1.2	Chemi-mechanical and semi-chemical	5	-	5	-	5	-	5	5
1.21	of which: non-coniferous	..	-	..	-	..	-	..	..
1.3	Chemical, total:	400	-	435	-	550	-	585	-
1.31	Unbleached sulphite	..	-	..	-	..	-	..	..
1.31.1	of which: non-coniferous	..	-	..	-	..	-	..	..
1.32	Bleached and semibleached sulphite	..	-	..	-	..	-	..	..
1.32.1	of which: non-coniferous	..	-	..	-	..	-	..	..
1.33	Unbleached sulphate and soda	..	-	..	-	..	-	..	..
1.33.1	of which: non-coniferous	..	-	..	-	..	-	..	..
1.34	Bleached and semibleached sulphate and soda	..	-	..	-	..	-	..	..
1.34.1	of which: non-coniferous	..	-	..	-	..	-	..	..
2	Other fibre pulp for making paper and paperboard, total:	45	-	49	-	53	-	57	-
2.1	Straw	-	-	-	-	-	-	-	-
2.2	Bagasse	-	-	-	-	-	-	-	-
2.3	Bamboo	-	-	-	-	-	-	-	-
2.4	Other (reeds, esparto, rags, etc.)	45	-	49	-	53	-	57	-
3	Dissolving pulp (wood and other fibrous raw materials)	200	..	200	..	200	..	200	200
3.1	of which: non-coniferous	..	..	..	..	..	..	..	..

(a) Secretariat estimate.

75 Country: GERMAN DEMOCRATIC REPUBLIC (a)

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	1,380	1,410	1,440	1,470	1,500	1,530
4.1 Newsprint	140	140	150	150	150	150
4.2 Other printing and writing paper, total:	270	280	285	295	300	310
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 and paperboard, total:	970	990	1,005	1,025	1,050	1,070
4.31 Household and sanitary paper	-	-	-	-	-	-
4.32 Wrapping and packaging paper and paperboard, total:	970	990	1,005	1,025	1,050	1,070
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 and packaging paper:	..	..	..	..	..	..
4.32.31 Sack kraft	..	..	..	..	..	..
4.32.32 Other kraft wrapping and packaging paper	..	..	..	..	..	..
4.32.4 Folding boxboard:	..	..	..	..	..	..
4.32.41 Solid bleached board	..	..	..	..	..	..
4.32.42 Other folding boxboard	..	..	..	..	..	..
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	..	..	..	..	..	..
4.32.51 Paper	..	..	..	..	..	..
4.32.52 Paperboard	..	..	..	..	..	..
4.33 Other paper and paperboard, n.e.s., total:	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

(a) Secretariat estimate.

	1976	1977	1978	1979	1980	1981
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 of which market pulp	Total capacity of which market pulp
- - - - - 1,000 metric tons (air dry) per year - - - - -						
76 Country: GERMANY, FEDERAL REPUBLIC OF						
1 Wood pulp for making paper and paperboard, total:	1,734	193	1,813	189	1,851	168
1.1 Mechanical	1,053	7	1,138	6	1,176	6
1.11 of which: non-coniferous	-	-	-	-	-	-
1.12 Chemi-mechanical and semi-chemical	68	-	68	-	68	-
1.21 of which: non-coniferous	68	-	68	-	68	-
1.3 Chemical, total:	613	186	607	183	607	162
1.31 Unbleached sulphite	57	24	47	24	47	24
1.31.1 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	556	162	570	159	583	138
1.32.1 of which: non-coniferous	137	57	137	58	127	58
1.33 Unbleached sulphate and soda	-	-	-	-	-	-
1.33.1 of which: non-coniferous	-	-	-	-	-	-
1.34 Bleached and semibleached sulphate and soda	-	-	-	-	-	-
1.34.1 of which: non-coniferous	-	-	-	-	-	-
2 Other fibre pulp for making paper and paperboard, total:	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	-	-	-	-	-	-
3 Dissolving pulp (wood and other fibrous raw materials)	204	202	206	204	206	204
3.1 of which: non-coniferous	142	142	142	142	135	138
					138	138
					141	141
					206	206
					206	206

76 Country: GERMANY, FEDERAL REPUBLIC OF

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	-	-	-	-	-	-
4.1 Newsprint	7,957	8,477	8,677	9,038	9,175	9,404
4.2 Other printing and writing paper, total:	580	612	631	792	870	960
4.21 Coated:	2,560	2,778	2,820	2,916	2,952	3,042
4.21.1 Wood containing	957	1,028	1,039	1,113	1,146	1,176
4.21.2 Wood free	..	..	..	..	..	..
4.22 Uncoated:	1,603	1,750	1,781	1,803	1,806	1,866
4.22.1 Wood containing	801	801	812	828	829	829
4.22.2 Wood free	802	949	969	975	977	1,037
4.3 Other paper and paperboard, total:	4,817	5,087	5,226	5,330	5,353	5,402
4.31 Household and sanitary paper	468	473	525	540	541	541
4.32 Wrapping and packaging paper and paperboard, total:	3,768	4,026	4,104	4,188	4,206	4,255
4.32.1 Linerboard:	460	514	509	503	503	543
4.32.11 Kraft liner:	6	7	8	8	8	-
4.32.11.1 Unbleached	..	..	..	..	..	-
4.32.11.2 Bleached	..	..	..	..	..	-
4.32.12 Other linerboard	454	507	501	495	495	543
4.32.2 Fluting medium:	790	861	853	905	907	912
4.32.21 Semi-chemical	90	90	90	90	90	90
4.32.22 Other fluting medium	700	771	763	815	817	822
4.32.3 Kraft wrapping and packaging paper:	219	226	235	242	243	243
4.32.31 Sack kraft	18	18	19	19	19	19
4.32.32 Other kraft wrapping and packaging paper	201	208	216	223	224	224
4.32.4 Folding boxboard:	601	636	674	687	699	699
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	601	636	674	687	699	699
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	1,698	1,789	1,833	1,851	1,854	1,858
4.32.51 Paper	976	1,067	1,095	1,106	1,108	1,108
4.32.52 Paperboard	722	722	738	745	746	750
4.33 Other paper and paperboard, n.e.s., total:	581	588	597	602	606	606
4.33.1 Paper, n.e.s.	423	429	438	442	446	446
4.33.2 Paperboard, n.e.s.	158	159	159	160	160	160

77Country: GREECE

	1976	1977	1978	1979	1980	1981
1,000 metric tons per year						
4 Paper and Paperboard, total:	379	470	497	506	506	506
4.1 Newsprint	63	81	90	90	90	90
4.2 Other printing and writing paper, total:	90	153	171	180	180	180
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 and paperboard, total:	226	236	236	236	236	236
4.31 Household and sanitary paper	106	106	106	106	106	106
4.32 Wrapping and packaging paper and paperboard, total:	95	105	105	105	105	105
4.32.1 Linerboard:	5	6	6	6	6	6
4.32.11 Kraft liner:	5	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:	10	11	11	11	11	11
4.32.21 Sawn-chemical	..	..	..	..	..	..
4.32.22 Other fluting medium	..	..	..	..	..	..
4.32.3 Kraft wrapping and packaging paper:	6	6	6	6	6	6
4.32.31 Sack kraft	3	3	3	3	3	3
4.32.32 Other kraft wrapping and packaging paper	3	3	3	3	3	3
4.32.4 Folding boxboard:	44	48	48	48	48	48
4.32.41 Solid bleached board	4	4	4	4	4	4
4.32.42 Other folding boxboard	40	44	44	44	44	44
4.32.5 Other wrapping and packaging paper and paperboard, n. e.s.:	30	34	34	34	34	34
4.32.51 Paper	30	34	34	34	34	34
4.32.52 Paperboard	-	-	-	-	-	-
4.33 Other paper and paperboard, 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

78 Country: HUNGARY

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	372	433	433	448	449	449
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, total:	108	109	114	116	116	116
4.21 Coated:	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated:	108	109	114	116	116	116
4.22.1 Wood containing	50	44	57	58	58	58
4.22.2 Wood free	58	65	57	58	58	58
4.3 Other paper and paperboard, total:	264	324	319	332	333	333
4.31 Household and sanitary paper	17	15	16	18	18	18
4.32 Wrapping and packaging paper and paperboard, total:	238	299	293	304	305	305
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:	116	137	144	131	124	124
4.32.21 Semi-chemical	50	60	68	60	58	58
4.32.22 Other fluting medium	66	67	76	71	66	66
4.32.3 Kraft wrapping and packaging paper:	37	35	38	43	45	45
4.32.31 Sack kraft	27	27	30	35	37	37
4.32.32 Other kraft wrapping and packaging paper	10	8	8	8	8	8
4.32.4 Folding boxboard:	32	32	40	40	40	40
4.32.41 Solid bleached board	16	16	20	20	20	20
4.32.42 Other folding boxboard	16	16	20	20	20	20
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	53	95	71	90	96	96
4.32.51 Paper	25	48	24	43	49	49
4.32.52 Paperboard	28	47	47	47	47	47
4.33 Other paper and paperboard, n.e.s., total:	9	10	10	10	10	10
4.33.1 Paper, n.e.s.	6	6	6	6	6	6
4.33.2 Paperboard, n.e.s.	3	4	4	4	4	4

79 Country: IRELAND

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	160	162	164	165	165	165
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, total:	36	36	36	36	36	36
4.21 Coated:	3	3	3	3	3	3
4.21.1 Wood containing	2	2	2	2	2	2
4.21.2 Wood free	1	1	1	1	1	1
4.22 Uncoated:	33	33	33	33	33	33
4.22.1 Wood containing	13	13	13	13	13	13
4.22.2 Wood free	20	20	20	20	20	20
4.3 Other paper and paperboard, total:	124	126	128	129	129	129
4.31 Household and sanitary paper	-	-	-	-	-	-
4.32 Wrapping and packaging paper and paperboard, total:	124	126	128	129	129	129
4.32.1 Linerboard:	-	-	-	-	-	-
4.32.11 Kraft liners:	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium:	100	100	102	102	102	102
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	100	100	102	102	102	102
4.32.3 Kraft wrapping and packaging paper:	11	11	11	11	11	11
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping and packaging paper	11	11	11	11	11	11
4.32.4 Folding boxboard:	-	-	-	-	-	-
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	-	-	-	-	-	-
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	13	15	15	16	16	16
4.32.51 Paper	13	15	15	16	16	16
4.32.52 Paperboard	-	-	-	-	-	-
4.33 Other paper and paperboard, n.e.s., total:	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

	1976	1977	1978	1979	1980	1981
	Total capacity of which market pulp	Total capacity				
80 Country: ITALY						
1 Wood pulp for making paper and paperboard, total:	1,139	-	1,139	-	1,160	-
1.1 Mechanical	662	-	662	-	675	-
1.11 of which: non-coniferous	..	-	..	-	..	..
1.2 Chemi-mechanical and semi-chemical	212	-	212	-	216	-
1.21 of which: non-coniferous	..	-	..	-	..	..
1.3 Chemical, total:	265	-	265	-	269	-
1.31 Unbleached sulphite	..	-	..	-	..	..
1.31.1 of which: non-coniferous	..	-	..	-	..	..
1.32 Bleached and semibleached sulphite	..	-	..	-	..	..
1.32.1 of which: non-coniferous	..	-	..	-	..	..
1.33 Unbleached sulphate and soda	..	-	..	-	..	..
1.33.1 of which: non-coniferous	..	-	..	-	..	..
1.34 Bleached and semibleached sulphate and soda	..	-	..	-	..	..
1.34.1 of which: non-coniferous	..	-	..	-	..	..
2 Other fibre pulp for making paper and paperboard, total:	420	-	420	-	428	-
2.1 Straw	420	-	420	-	428	-
2.2 Bagasse	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	-	-	-	-	-	-
3 Dissolving pulp (wood and other fibrous raw materials)	90	-	90	-	92	-
3.1 of which: non-coniferous	..	-	..	-	..	..

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
80 Country: ITALY						
4 Paper and Paperboard, total:	5,437	5,437	5,545	5,712	5,768	5,768
4.1 Newsprint	500	500	525	550	550	550
4.2 Other printing and writing paper, total:	1,685	1,685	1,703	1,745	1,767	1,767
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 and paperboard, total:	3,252	3,252	3,317	3,417	3,451	3,451
4.31 Household and sanitary paper
4.32 Wrapping and packaging paper and paperboard, 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 and packaging paper:
4.32.31 Sack kraft
4.32.32 Other kraft wrapping and packaging paper
4.32.4 Folding boxboard:
4.32.41 Solid bleached board
4.32.42 Other folding boxboard
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:
4.32.51 Paper
4.32.52 Paperboard
4.33 Other paper and paperboard, n.e.s., total:
4.33.1 Paper, n.e.s.
4.33.2 Paperboard, n.e.s.

	1976	1977	1978	1979	1980	1981
	Total capacity of which market pulp					
81 Country: NETHERLANDS						
1 Wood pulp for making paper and paperboard, total:	240	5	240	5	240	5
1.1 Mechanical	195	-	195	-	195	-
1.11 of which: non-coniferous	20	-	20	-	20	-
1.2 Chemi-mechanical and semi-chemical	45	5	45	5	45	5
1.21 of which: non-coniferous	45	5	45	5	45	5
1.3 Chemical, total:	-	-	-	-	-	-
1.31 Unbleached sulphite	-	-	-	-	-	-
1.31.1 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	-	-	-	-	-	-
1.32.1 of which: non-coniferous	-	-	-	-	-	-
1.33 Unbleached sulphate and soda	-	-	-	-	-	-
1.33.1 of which: non-coniferous	-	-	-	-	-	-
1.34 Bleached and semibleached sulphate and soda	-	-	-	-	-	-
1.34.1 of which: non-coniferous	-	-	-	-	-	-
2 Other fibre pulp for making paper and paperboard, total:	87	-	72	-	47	-
2.1 Straw	85	-	70	-	45	-
2.2 Bagasse	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	2	-	2	-	2	2
3 Dissolving pulp (wood and other fibrous raw materials)	-	-	-	-	-	-
3.1 of which: non-coniferous	-	-	-	-	-	-

81 Country: NETHERLANDS

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	2,078	2,102	2,126	2,137	2,131	2,131
4.1 Newsprint	148	148	148	150	150	150
4.2 Other printing and writing paper, total:	652	657	673	682	676	676
4.21 Coated:	225	229	242	249	245	245
4.21.1 Wood containing	..	..	..	..	..	..
4.21.2 Wood free	..	..	..	..	..	..
4.22 Uncoated:	427	428	431	433	431	431
4.22.1 Wood containing	80	80	80	80	80	80
4.22.2 Wood free	347	348	351	353	351	351
4.3 Other paper and paperboard, total:	1,278	1,297	1,305	1,305	1,305	1,305
4.31 Household and sanitary paper	115	118	118	118	118	118
4.32 Wrapping and packaging paper and paperboard, total:	1,141	1,135	1,143	1,143	1,143	1,143
4.32.1 Linerboard:	107	116	119	119	119	119
4.32.11 Kraft liner:	24	24	24	24	24	24
4.32.11.1 Unbleached	3	3	3	3	3	3
4.32.11.2 Bleached	21	21	21	21	21	21
4.32.12 Other linerboard	83	92	95	95	95	95
4.32.2 Fluting medium:	333	342	343	343	343	343
4.32.21 Semi-chemical	57	57	57	57	57	57
4.32.22 Other fluting medium	276	285	286	286	286	286
4.32.3 Kraft wrapping and packaging paper:	59	59	59	59	59	59
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping and packaging paper	59	59	59	59	59	59
4.32.4 Folding boxboard:	109	117	119	119	119	119
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	109	117	119	119	119	119
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	533	501	503	503	503	503
4.32.51 Paper	69	68	68	68	68	68
4.32.52 Paperboard	464	433	435	435	435	435
4.33 Other paper and paperboard, n.e.s., total:	22	44	44	44	44	44
4.33.1 Paper, n.e.s.	4	4	4	4	4	4
4.33.2 Paperboard, n.e.s.	18	40	40	40	40	40

82 Country: NORWAY

	1976	1977	1978	1979	1980	1981
Total capacity	of which market pulp	Total capacity	of which market pulp	Total capacity	of which market pulp	Total capacity
----- 1,000 metric tons (air dry) per year -----						
1 Wood pulp for making paper and paperboard, total:	2,345	1,155	2,370	1,170	2,370	1,155
1.1 Mechanical	1,350	650	1,350	650	1,350	650
1.11 of which: non-coniferous	-	-	-	-	-	-
1.2 Chemi-mechanical and semi-chemical	85	35	90	35	90	35
1.21 of which: non-coniferous	85	35	90	35	90	35
1.3 Chemical, total:	910	470	930	485	930	470
1.31 Unbleached sulphite	130	40	125	40	125	40
1.31.1 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	370	260	385	265	370	260
1.32.1 of which: non-coniferous	18	-	9	-	10	-
1.33 Unbleached sulphate and soda	220	35	230	45	240	40
1.33.1 of which: non-coniferous	-	-	-	-	-	-
1.34 Bleached and semibleached sulphate and soda	190	135	190	135	185	105
1.34.1 of which: non-coniferous	140	125	140	125	135	105
2 Other fibre pulp for making paper and paperboard, total:	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	-	-	-	-	-	-
3 Dissolving pulp (wood and other fibrous raw materials)	135	105	135	105	135	105
3.1 of which: non-coniferous	-	-	-	-	-	-

82 Country: NORWAY

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	1,650	1,695	1,750	1,795	1,845	1,845
4.1 Newsprint	600	625	650	675	700	700
4.2 Other printing and writing paper, total:	390	400	420	430	440	440
4.21 Coated:	15	15	15	15	15	15
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated:	375	385	405	415	425	425
4.22.1 Wood containing	230	235	250	255	255	255
4.22.2 Wood free	145	150	155	160	170	170
4.3 Other paper and paperboard, total:	660	670	680	690	705	705
4.31 Household and sanitary paper	40	40	40	40	40	40
4.32 Wrapping and packaging paper and paperboard, total:	600	615	620	635	650	650
4.32.1 Linerboard:	40	40	40	40	45	45
4.32.11 Kraft liner:	40	40	40	40	45	45
4.32.11.1 Unbleached	35	35	35	35	40	40
4.32.11.2 Bleached	5	5	5	5	5	5
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium:	80	80	80	80	85	85
4.32.21 Semi-chemical	..	..	..	..	..	..
4.32.22 Other fluting medium	..	..	..	..	..	..
4.32.3 Kraft wrapping and packaging paper:	155	155	165	165	175	175
4.32.31 Sack kraft	100	100	110	110	120	120
4.32.32 Other kraft wrapping and packaging paper	55	55	55	55	55	55
4.32.4 Folding boxboard:	110	120	120	120	125	125
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	110	120	120	125	125	125
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	215	215	215	215	215	215
4.32.51 Paper	210	210	210	210	210	210
4.32.52 Paperboard	5	5	5	5	5	5
4.33 Other paper and paperboard, n.e.s., total:	20	20	20	20	20	20
4.33.1 Paper, n.e.s.	5	5	5	5	5	5
4.33.2 Paperboard, n.e.s.	15	15	15	15	15	15

83 Country: POLAND

	1976	1977	1978	1979	1980	1981
Total capacity	of which market pulp	Total capacity	of which market pulp	Total capacity	of which market pulp	Total capacity
----- 1,000 metric tons (air dry) per year -----						
1 Wood pulp for making paper and paperboard, total:	668	-	733	-	770	-
1.1 Mechanical	156	-	166	-	166	-
1.1.1 of which: non-coniferous	-	-	-	-	-	-
1.1.2 Chemi-mechanical and semi-chemical	14	-	52	-	78	-
1.21 of which: non-coniferous	14	-	52	-	78	-
1.22 of which: coniferous	498	-	515	-	526	-
1.3 Chemical, total:	52	-	48	-	48	-
1.31 Unbleached sulphite	-	-	-	-	-	-
1.31.1 of which: non-coniferous	77	-	87	-	87	-
1.32 Bleached and semibleached sulphite	-	-	-	-	-	-
1.32.1 of which: non-coniferous	-	-	-	-	-	-
1.33 Unbleached sulphite and soda	336	-	345	-	356	-
1.33.1 of which: non-coniferous	-	-	-	-	-	-
1.34 Bleached and semibleached sulphite and soda	33	-	35	-	35	-
1.34.1 of which: non-coniferous	-	-	-	-	-	-
2 Other fibre pulp for making paper and paperboard, total:	22	-	23	-	23	-
2.1 Straw	20	-	21	-	21	-
2.2 Bagasse	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	2	-	2	-	2	-
3 Dissolving pulp (wood and other fibrous raw materials)	70	-	71	-	71	-
3.1 of which: non-coniferous	52	-	55	-	55	-

83 Country: POLAND

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	- 1,312	1,398	1,460	1,472	1,603	1,754
4.1 Newsprint	84	85	85	85	85	85
4.2 Other printing and writing paper, total:	239	263	265	289	397	425
4.21 Coated:	16	17	18	18	18	18
4.21.1 Wood containing	11	11	11	11	11	11
4.21.2 Wood free	5	6	7	7	7	7
4.22 Uncoated:	223	246	247	271	379	407
4.22.1 Wood containing	140	163	164	165	165	165
4.22.2 Wood free	83	83	83	106	214	242
4.3 Other paper and paperboard, total:	989	1,050	1,110	1,098	1,121	1,244
4.31 Household and sanitary paper	72	96	102	103	113	115
4.32 Wrapping and packaging paper and paperboard, total:	781	815	866	850	861	877
4.32.1 Lineboard:	146	147	150	146	150	150
4.32.11 Kraft liner:	60	57	60	60	60	60
4.32.11.1 Unbleached	60	57	60	60	60	60
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	86	90	90	86	90	90
4.32.2 Fluting medium:	54	68	122	124	124	124
4.32.21 Semi-chemical	45	59	113	115	115	115
4.32.22 Other fluting medium	9	9	9	9	9	9
4.32.3 Kraft wrapping and packaging paper:	240	261	261	250	261	261
4.32.31 Sack kraft	167	166	166	155	166	166
4.32.32 Other kraft wrapping and packaging paper	73	95	95	95	95	95
4.32.4 Folding boxboard:	190	196	196	195	196	205
4.32.41 Solid bleached board	100	103	103	102	103	112
4.32.42 Other folding boxboard	90	93	93	93	93	93
4.32.5 Other wrapping and packaging paper and paperboard, n. e. s. :	151	143	137	135	130	137
4.32.51 Paper	148	140	134	132	127	134
4.32.52 Paperboard	3	3	3	3	3	3
4.33 Other paper and paperboard, n. e. s. , total:	136	139	142	145	147	252
4.33.1 Paper, n. e. s.	61	65	68	71	72	129
4.33.2 Paperboard, n. e. s.	75	74	74	75	75	123

	1976	1977	1978	1979	1980	1981
Total capacity	Total capacity of market pulp	Total capacity of market pulp	Total capacity of market pulp	Total capacity of market pulp	Total capacity of market pulp	Total capacity
<hr/>						
84 Country: PORTUGAL						
			1,000 metric tons (air dry) per year - - - - -			
1 Wood pulp for making paper and paperboard, total:	667	473	686	482	808	604
1.1 Mechanical	-	-	-	-	-	-
1.11 of which: non-coniferous	-	-	-	-	-	-
1.2 Chemi-mechanical and semi-chemical	-	-	-	5	-	5
1.21 of which: non-coniferous	-	-	-	5	-	5
1.3 Chemical, total:	667	473	686	482	803	604
1.31 Unbleached sulphite	1	1	2	2	2	2
1.31.1 of which: non-coniferous	1	1	2	2	2	2
1.32 Bleached and semibleached sulphite	74	74	75	75	88	88
1.32.1 of which: non-coniferous	74	74	75	75	88	92
1.33 Unbleached sulphate and soda	279	87	286	84	258	70
1.33.1 of which: non-coniferous	21	6	28	2	15	-
1.34 Bleached and semibleached sulphate and soda	313	311	323	321	455	444
1.34.1 of which: non-coniferous	285	284	300	299	432	422
2 Other fibre pulp for making paper and paperboard, total:	37	-	42	-	42	-
2.1 Straw	12	-	12	-	12	-
2.2 Bagasse	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	25	-	30	-	30	-
3 Dissolving pulp (wood and other fibrous raw materials)	-	-	-	-	-	-
3.1 of which: non-coniferous	-	-	-	-	-	-

84 Country: PORTUGAL

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	514	550	565	574	615	627
4.1 Newsprint	2	2	2	2	2	2
4.2 Other printing and writing paper, total:	58	50	99	100	100	100
4.21 Coated:	58	50	90	100	100	100
4.21.1 Wood containing	14	14	14	15	15	15
4.21.2 Wood free	44	76	85	85	85	85
4.22 Uncoated:	-	-	-	-	-	-
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	-	-	-	-	-	-
4.3 Other paper and paperboard, total:	454	458	464	472	513	525
4.31 Household and sanitary paper	22	31	36	38	38	38
4.32 Wrapping and packaging paper and paperboard, total:	346	352	355	356	397	409
4.32.1 Linerboard:	136	136	136	136	177	189
4.32.11 Kraft liner:	136	136	136	136	177	189
4.32.11.1 Unbleached	136	136	136	136	177	189
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium:	47	47	48	48	48	48
4.32.21 Semi-chemical	..	..	..	..	..	..
4.32.22 Other fluting medium	..	..	..	..	..	..
4.32.3 Kraft wrapping and packaging paper:	93	93	94	94	94	94
4.32.31 Sack kraft	35	35	36	36	36	36
4.32.32 Other kraft wrapping and packaging paper	58	58	58	58	58	58
4.32.4 Folding boxboard:	50	56	57	58	58	58
4.32.41 Solid bleached board	12	12	12	12	12	12
4.32.42 Other folding boxboard	38	44	45	46	46	46
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	20	20	20	20	20	20
4.32.51 Paper	..	..	..	..	..	..
4.32.52 Paperboard	..	..	..	..	..	..
4.33 Other paper and paperboard, n.e.s., total:	86	75	73	78	78	78
4.33.1 Paper, n.e.s.	70	65	65	70	70	70
4.33.2 Paperboard, n.e.s.	16	10	8	8	8	8

	1976	1977		1978		1979		1980		1981
	Total capacity of market pulp	Total capacity								
-- -- 1,000 metric tons (air dry) per year -- --										
85 Country: ROMANIA										
1 Wood pulp for making paper and paperboard, total:	663	32	671	37	672	37	675	37	845	935
1.1 Mechanical	92	-	93	-	90	-	92	-	92	92
1.11 of which: non-coniferous	13	-	16	-	16	-	16	-	16	16
1.2 Chemi-mechanical and semi-chemical	44	-	44	-	44	-	44	-	44	44
1.21 of which: non-coniferous	44	-	44	-	44	-	44	-	44	44
1.3 Chemical, total:	527	32	534	37	538	37	539	37	709	799
1.31 Unbleached sulphite	57	-	57	-	57	-	57	-	57	57
1.31.1 of which: non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	74	-	74	-	78	-	78	-	78	78
1.32.1 of which: non-coniferous	-	-	-	-	-	-	-	-	-	-
1.33 Unbleached sulphate and soda	208	-	208	-	208	-	209	-	274	319
1.33.1 of which: non-coniferous	33	-	33	-	33	-	33	-	33	33
1.34 Bleached and semibleached sulphate and soda	188	-	195	-	195	-	195	-	300	345
1.34.1 of which: non-coniferous	90	-	95	-	95	-	95	-	95	95
2 Other fibre pulp for making paper and paperboard, 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 (reeds, esparto, rags, etc.)	44	-	44	-	44	-	44	-	44	44
3 Dissolving pulp (wood and other fibrous raw materials)	63	63	63	63	63	63	63	100	100	127
3.1 of which: non-coniferous	63	63	63	63	63	63	63	100	100	127

85 Country: ROMANIA

	1976	1977	1978	1979	1980	1981
	- - - - - 1,000 metric tons per year - - - - -					
4 Paper and Paperboard, total:	- 790	815	860	906	930	930
4.1 Newsprint	90	103	103	103	105	105
4.2 Other printing and writing paper, total:	141	140	151	158	162	162
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:	135	134	145	152	156	156
4.22.1 Wood containing	50	50	50	50	50	50
4.22.2 Wood free	86	84	95	102	106	106
4.3 Other paper and paperboard, total:	559	572	606	645	663	663
4.31 Household and sanitary paper	25	25	25	25	25	25
4.32 Wrapping and packaging paper and paperboard, total:	508	515	547	570	583	583
4.32.1 Linerboard:	80	90	100	110	127	127
4.32.11 Kraft liner:	80	90	100	110	120	120
4.32.11.1 Unbleached	80	90	100	110	120	120
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	7	7
4.32.2 Fluting medium:	60	60	70	80	80	80
4.32.21 Semi-chemical	40	40	40	40	40	40
4.32.22 Other fluting medium	20	20	30	40	40	40
4.32.3 Kraft wrapping and packaging paper:	177	164	172	175	171	171
4.32.31 Sack kraft	78	83	91	92	94	94
4.32.32 Other kraft wrapping and packaging paper	99	81	81	83	77	77
4.32.4 Folding boyboard:	97	119	119	119	119	119
4.32.41 Solid bleached board	20	30	30	30	30	30
4.32.42 Other folding boyboard	77	89	89	89	89	89
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	69	82	86	86	86	86
4.32.51 Paper	12	12	12	12	12	12
4.32.52 Paperboard	57	70	74	74	74	74
4.33 Other paper and paperboard, n.e.s., total:	26	32	34	50	55	55
4.33.1 Paper, n.e.s.	20	16	18	29	30	30
4.33.2 Paperboard, n.e.s.	6	16	16	21	25	25

	1976	1977	1978	1979	1980	1981
	Total capacity of which market pulp					
86 Country: SPAIN						
1 Wood pulp for making paper and paperboard, total:	1,284	488	1,388	524	1,455	528
1.1 Mechanical	313	63	328	63	343	63
1.11 of which: non-coniferous	48	30	48	30	48	30
1.2 Chemi-mechanical and semi-chemical	100	-	100	-	100	-
1.21 of which: non-coniferous	-	-	-	-	-	-
1.3 Chemical, total:	871	425	960	461	1,012	465
1.31 Unbleached sulphite	-	-	-	-	-	-
1.31.1 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	-	-	-	-	-	-
1.32.1 of which: non-coniferous	-	-	-	-	-	-
1.33 Unbleached sulphate and soda	301	65	306	65	326	65
1.33.1 of which: non-coniferous	5	5	5	5	5	5
1.34 Bleached and semibleached sulphate and soda	570	360	654	396	686	400
1.34.1 of which: non-coniferous	380	230	434	256	466	260
2 Other fibre pulp for making paper and paperboard, total:	300	31	280	31	280	31
2.1 Straw	250	-	240	-	240	-
2.2 Bagasse	10	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	40	31	40	31	40	31
3 Dissolving pulp (wood and other fibrous raw materials)	60	60	60	60	60	60
3.1 of which: non-coniferous	60	60	60	60	60	60

86 Country: SPAIN

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	2,441	2,648	2,773	2,905	3,022	3,127
4.1 Newsprint	148	148	148	148	148	148
4.2 Other printing and writing paper, total:	636	660	685	783	862	929
4.21 Coated:	180	206	206	241	241	241
4.21.1 Wood containing	..	..	..	..	..	..
4.21.2 Wood free	..	..	..	..	..	..
4.22 Uncoated:	456	454	479	542	621	688
4.22.1 Wood containing	..	..	..	..	..	..
4.22.2 Wood free	..	..	..	..	..	..
4.3 Other paper and paperboard, total:	1,657	1,840	1,940	1,974	2,012	2,050
4.31 Household and sanitary paper	120	173	194	198	198	198
4.32 Wrapping and packaging paper and paperboard, total:	1,537	1,667	1,746	1,776	1,814	1,852
4.32.1 Linerboard:	490	532	571	596	621	646
4.32.11 Kraft liner:	110	120	127	127	127	127
4.32.11.1 Unbleached	90	100	107	107	107	107
4.32.11.2 Bleached	20	20	20	20	20	20
4.32.12 Other linerboard	380	412	444	469	494	519
4.32.2 Fluting medium:	420	465	480	480	480	480
4.32.21 Semi-chemical	85	90	90	90	90	90
4.32.22 Other fluting medium	335	375	390	390	390	390
4.32.3 Kraft wrapping and packaging paper:	155	170	185	190	190	190
4.32.31 Sack kraft	155	170	185	190	190	190
4.32.32 Other kraft wrapping and packaging paper	..	..	..	..	..	..
4.32.4 Folding boxboard:	315	330	340	340	340	340
4.32.41 Solid bleached board	..	..	..	..	..	..
4.32.42 Other folding boxboard	..	..	..	..	..	..
4.32.5 Other wrapping and packaging paper and paperboard, n. e. s.:	105	110	110	110	123	136
4.32.51 Paper	..	..	..	..	..	..
4.32.52 Paperboard	..	..	..	..	..	..
4.33 Other paper and paperboard, n. e. s., total:	52	60	60	60	60	60
4.33.1 Paper, n. e. s.	39	47	47	47	47	47
4.33.2 Paperboard, n. e. s.	13	13	13	13	13	13

	1976	1977	1978	1979	1980	1981
	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 of which market pulp	Total capacity of which market pulp
- - - - - 1,000 metric tons (air dry) per year - - - - -						
87 Country: SWEDEN						
1 Wood pulp for making paper and paperboard, total:	10,945	5,350	11,185	5,075	11,560	5,115
1.1 Mechanical	2,405	700	2,715	720	2,870	765
1.1.1 of which: non-coniferous	-	-	-	-	-	-
1.1.2 Chemi-mechanical and semi-chemical	475	25	525	25	540	25
1.21 of which: non-coniferous	440	25	490	25	500	25
1.3 Chemical, total:	8,065	4,625	7,945	4,330	8,150	4,325
1.31 Unbleached sulphite	710	350	540	200	530	180
1.31.1 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	940	680	865	610	865	625
1.32.1 of which: non-coniferous	125	85	130	85	130	85
1.33 Unbleached sulphite and soda	2,815	710	2,895	740	2,945	765
1.33.1 of which: non-coniferous	25	20	25	20	25	20
1.34 Bleached and semibleached sulphite and soda	3,600	2,885	3,645	2,780	3,810	2,755
1.34.1 of which: non-coniferous	865	680	855	585	885	570
2 Other fibre pulp for making paper and paperboard, total:	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	-	-	-	-	-	-
3 Dissolving pulp (wood and other fibrous raw materials)	270	270	255	255	270	275
3.1 of which: non-coniferous	-	-	-	-	-	-

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	6,345	6,905	7,305	7,655	7,925	8,270
4.1 Newsprint	1,415	1,520	1,680	1,855	1,870	1,950
4.2 Other printing and writing paper, total:	915	1,050	1,115	1,160	1,190	1,305
4.21 Coated:	250	285	305	320	330	445
4.21.1 Wood containing	100	115	115	115	115	225
4.21.2 Wood free	150	170	190	205	215	220
4.22 Uncoated:	665	765	810	840	860	860
4.22.1 Wood containing	310	320	325	320	320	320
4.22.2 Wood free	355	445	485	520	540	540
4.3 Other paper and paperboard, total:	4,015	4,335	4,510	4,640	4,865	5,015
4.31 Household and sanitary paper	235	225	230	235	250	255
4.32 Wrapping and packaging paper and paperboard, total:	3,370	3,615	3,775	3,850	4,100	4,245
4.32.1 Linerboard:	1,045	1,130	1,170	1,190	1,280	1,340
4.32.11 Kraft liner:	995	1,080	1,120	1,135	1,220	1,280
4.32.11.1 Unbleached	890	1,000	1,030	1,045	1,125	1,185
4.32.11.2 Bleached	105	80	90	90	95	95
4.32.12 Other linerboard	50	50	50	55	60	60
4.32.2 Fluting medium:	350	380	390	440	470	470
4.32.21 Semi-chemical	345	375	385	435	465	465
4.32.22 Other fluting medium	5	5	5	5	5	5
4.32.3 Kraft wrapping and packaging paper:	1,180	1,215	1,260	1,275	1,330	1,415
4.32.31 Sack kraft	915	945	960	970	1,000	1,000
4.32.32 Other kraft wrapping and packaging paper	265	270	300	305	330	415
4.32.4 Folding board:	535	600	665	695	725	725
4.32.41 Solid bleached board	225	225	235	245	245	245
4.32.42 Other folding boxboard	310	375	430	450	480	480
4.32.5 Other wrapping and packaging paper and paperboard, n. e.s.:	260	290	290	290	295	295
4.32.51 Paper	150	155	155	150	155	155
4.32.52 Paperboard	110	135	135	140	140	140
4.33 Other paper and paperboard, n. e.s., total:	410	495	505	515	515	515
4.33.1 Paper, n. e.s.	235	260	260	270	270	270
4.33.2 Paperboard, n. e.s.	175	235	245	245	245	245

88 Country: SWITZERLAND

	1976	1977	1978	1979	1980	1981
	Total capacity of market pulp	Total capacity of market pulp	Total capacity of market pulp	Total capacity of market pulp	Total capacity of market pulp	Total capacity of market pulp
- - - - - 1,000 metric tons (air dry) per year - - - - -						
1 Wood pulp for making paper and paperboard, total:	310	120	310	120	310	120
1.1 Mechanical	200	10	200	10	200	10
1.11 of which: non-coniferous	-	-	-	-	-	-
1.2 Chemi-mechanical and semi-chemical	-	-	-	-	-	-
1.21 of which: non-coniferous	-	-	-	-	-	-
1.3 Chemical, total:	110	110	110	110	110	110
1.31 Unbleached sulphite	..	..	..	..	..	..
1.31.1 of which: non-coniferous	..	..	..	..	..	..
1.32 Bleached and semibleached sulphite	..	..	..	..	..	..
1.32.1 of which: non-coniferous	-	-	-	-	-	-
1.33 Unbleached sulphite and soda	-	-	-	-	-	-
1.33.1 of which: non-coniferous	-	-	-	-	-	-
1.34 Bleached and semibleached sulphite and soda	-	-	-	-	-	-
1.34.1 of which: non-coniferous	-	-	-	-	-	-
2 Other fibre pulp for making paper and paperboard, total:	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	-	-	-	-	-	-
3 Dissolving pulp (wood and other fibrous raw materials)	-	-	-	-	-	-
3.1 of which: non-coniferous	-	-	-	-	-	-

88 Country: SWITZERLAND

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4. Paper and Paperboard, total:	970	975	975	980	980	985
4.1 Newsprint	200	200	200	200	200	200
4.2 Other printing and writing paper, total:	285	285	285	285	285	290
4.21 Coated:	40	40	40	40	40	40
4.21.1 Wood containing	10	10	10	10	10	10
4.21.2 Wood free	30	30	30	30	30	30
4.22 Uncoated:	245	245	245	245	245	250
4.22.1 Wood containing	130	130	130	130	130	135
4.22.2 Wood free	115	115	115	115	115	115
4.3 Other paper and paperboard, total:	485	490	490	495	495	495
4.31 Household and sanitary paper	85	90	90	95	95	95
4.32 Wrapping and packaging paper and paperboard, total:	360	360	360	360	360	365
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:	140	140	140	140	140	145
4.32.21 Semi-chemical	..	..	..	..	..	..
4.32.22 Other fluting medium	..	..	..	..	..	..
4.32.3 Kraft wrapping and packaging paper:	50	50	50	50	50	50
4.32.31 Sack kraft	30	30	30	30	30	30
4.32.32 Other kraft wrapping and packaging paper	20	20	20	20	20	20
4.32.4 Folding boxboard:	70	70	70	70	70	70
4.32.41 Solid bleached board	..	..	..	..	..	..
4.32.42 Other folding boxboard	..	..	..	..	..	..
4.32.5 Other wrapping and packaging paper and paperboard, n. e. s. :	100	100	100	100	100	100
4.32.51 Paper	-	-	-	-	-	-
4.32.52 Paperboard	100	100	100	100	100	100
4.33 Other paper and paperboard, 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.	-	-	-	-	-	-

	1976	1977	1978	1979	1980	1981
	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 of which market pulp	Total capacity
89 Country: UNITED KINGDOM						
			----- 1,000 metric tons (air dry) per year -----			
1 Wood pulp for making paper and paperboard, total:	382	50	382	50	384	50
1.1 Mechanical	192	-	192	-	192	-
1.11 of which: non-coniferous	-	-	-	-	-	-
1.2 Chemi-mechanical and semi-chemical	110	-	110	-	112	-
1.21 of which: non-coniferous	110	-	110	-	112	-
1.3 Chemical, total:	80	50	80	50	80	50
1.31 Unbleached sulphite	-	-	-	-	-	-
1.31.1 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	80	50	80	50	80	50
1.32.1 of which: non-coniferous	-	-	-	-	-	-
1.33 Unbleached sulphate and soda	-	-	-	-	-	-
1.33.1 of which: non-coniferous	-	-	-	-	-	-
1.34 Bleached and semibleached sulphate and soda	-	-	-	-	-	-
1.34.1 of which: non-coniferous	-	-	-	-	-	-
2 Other fibre pulp for making paper and paperboard, total:	35	-	35	-	35	-
2.1 Straw a)	8	-	8	-	8	-
2.2 Bagasse	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.) b)	27	-	27	-	27	-
3 Dissolving pulp (wood and other fibrous raw materials)	-	-	-	-	-	-
3.1 of which: non-coniferous	-	-	-	-	-	-

a) including esparto
b) excluding esparto

89 Country: UNITED KINGDOM

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	4,881	4,946	5,096	5,190	5,253	5,338
4.1 Newsprint	389	361	362	360	360	360
4.2 Other printing and writing paper, total:	1,259	1,266	1,326	1,369	1,399	1,435
4.21 Coated:	412	414	432	446	458	482
4.21.1 Wood containing	53	35	35	38	39	39
4.21.2 Wood free	359	379	396	408	419	443
4.22 Uncoated:	848	852	895	924	941	953
4.22.1 Wood containing	65	52	57	59	59	60
4.22.2 Wood free	783	800	838	865	881	893
4.3 Other paper and paperboard, total:	3,233	3,319	3,408	3,461	3,494	3,543
4.31 Household and sanitary paper	419	420	432	436	437	463
4.32 Wrapping and packaging paper and paperboard, total:	2,261	2,341	2,405	2,452	2,475	2,485
4.32.1 Linerboard:	332	366	371	382	384	389
4.32.11 Kraft liner:	-	-	-	1	1	1
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	332	366	371	381	383	388
4.32.2 Fluting medium:	512	539	566	582	590	595
4.32.21 Semi-chemical	166	166	171	172	175	178
4.32.22 Other fluting medium	347	373	396	410	415	417
4.32.3 Kraft wrapping and packaging paper:	186	175	178	178	178	178
4.32.31 Sack kraft	55	53	53	53	53	53
4.32.32 Other kraft wrapping and packaging paper	130	122	125	125	125	125
4.32.4 Folding boxboard:	414	442	453	465	470	462
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	414	442	453	465	470	462
4.32.5 Other wrapping and packaging paper and paperboard, n. e.s.:	817	819	836	845	853	872
4.32.51 Paper	345	349	352	353	356	358
4.32.52 Paperboard	472	470	484	492	497	514
4.33 Other paper and paperboard, n. e.s., total:	553	557	572	573	582	585
4.33.1 Paper, n.e.s.	265	273	284	290	297	300
4.33.2 Paperboard, n.e.s.	287	284	288	283	285	285

	1976	1977	1978	1979	1980	1981
Total capacity	of which market pulp	Total capacity	of which market pulp	Total capacity	of which market pulp	Total capacity
- - - - - 1,000 metric tons (air dry) per year - - - - -						
90 Country: YUGOSLAVIA						
1 Wood pulp for making paper and paperboard, total:	613	..	684	..	704	..
1.1 Mechanical	135	..	135	..	135	..
1.1.1 of which: non-coniferous	..	..	..	..	..	..
1.1.2 Chemi-mechanical and semi-chemical	66	-	68	-	68	-
1.1.2.1 of which: non-coniferous	..	..	..	..	..	..
1.1.2.2 Chemical, total:	412	..	481	..	501	..
1.31 Unbleached sulphite	48	..	77	..	82	..
1.31.1 of which: non-coniferous	..	..	..	..	..	..
1.32 Bleached and semibleached sulphite	81	..	121	..	136	..
1.32.1 of which: non-coniferous	..	..	..	..	..	..
1.33 Unbleached sulphate and soda	156	..	156	..	156	..
1.33.1 of which: non-coniferous	-	-	-	-	-	-
1.34 Bleached and semibleached sulphate and soda	127	..	127	..	127	..
1.34.1 of which: non-coniferous	..	..	..	..	..	..
2 Other fibre pulp for making paper and paperboard, total:	8	-	8	-	8	-
2.1 Straw	8	-	8	-	8	-
2.2 Bagasse	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	-	-	-	-	-	-
3 Dissolving pulp (wood and other fibrous raw materials)	68	..	94	..	101	..
3.1 of which: non-coniferous	..	..	..	..	..	..

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	866	925	986	1,039	1,055	1,060
4.1 Newsprint	80	80	80	80	80	80
4.2 Other printing and writing paper, total:	264	293	303	305	305	305
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 and paperboard, total:	522	552	603	653	670	675
4.31 Household and sanitary paper	7	24	29	31	32	32
4.32 Wrapping and packaging paper and paperboard, total:	422	429	473	520	535	541
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 and packaging paper:	..	..	..	..	..	..
4.32.31 Sack kraft	..	..	..	..	..	..
4.32.32 Other kraft wrapping and packaging paper	..	..	..	..	..	..
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	..	..	..	..	..	..
4.32.51 Paper	..	..	..	..	..	..
4.32.52 Paperboard	..	..	..	..	..	..
4.33 Other paper and paperboard, n.e.s., total:	93	99	101	102	102	102
4.33.1 Paper, n.e.s.	..	..	..	..	..	..
4.33.2 Paperboard, n.e.s.	..	..	..	..	..	..

	Total capacity	of which market pulp								
	1976	1977	1978	1979	1980	1981				
91 Country: AUSTRALIA										
1,000 metric tons (air dry) per year										
1 Wood pulp for making paper and paperboard, total:	723	-	723	-	813	-	854	-	854	1,043
1.1 Mechanical	204	-	204	-	246	-	281	-	281	430
1.1.1 of which: non-coniferous	150	-	150	-	150	-	150	-	150	150
1.2 Chemi-mechanical and semi-chemical	379	-	379	-	422	-	428	-	428	458
1.2.1 of which: non-coniferous	264	-	264	-	264	-	264	-	264	264
1.3 Chemical, total:	140	-	140	-	145	-	145	-	145	145
1.31 Unbleached sulphite	-	-	-	-	-	-	-	-	-	-
1.31.1 of which: non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	-	-	-	-	-	-	-	-	-	-
1.32.1 of which: non-coniferous	-	-	-	-	-	-	-	-	-	-
1.33 Unbleached sulphate and soda a)	140	-	140	-	145	-	145	-	145	145
1.33.1 of which: non-coniferous	-	-	-	-	-	-	-	-	-	-
1.34 Bleached and semibleached sulphate and soda	-	-	-	-	-	-	-	-	-	-
1.34.1 of which: non-coniferous	-	-	-	-	-	-	-	-	-	-
2 Other fibre pulp for making paper and paperboard, total:	1	-	1	-	-	-	-	-	-	-
2.1 Straw	1	-	1	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	-	-	-	-	-	-	-	-	-	-
3 Dissolving pulp (wood and other fibrous raw materials)	-	-	-	-	-	-	-	-	-	-
3.1 of which: non-coniferous	-	-	-	-	-	-	-	-	-	-

(a) including bleached and semibleached sulphate and soda.

91 Country: AUSTRALIA

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	1,417	1,419	1,549	1,631	1,704	1,926
4.1 Newsprint	208	208	208	208	208	388
4.2 Other printing and writing paper, total:	225	225	232	236	239	241
4.21 Coated:	36	36	36	36	36	36
4.21.1 Wood containing	21	21	21	21	21	21
4.21.2 Wood free	15	15	15	15	15	15
4.22 Uncoated:	189	189	196	200	203	205
4.22.1 Wood containing	12	12	15	16	17	17
4.22.2 Wood free	177	177	181	184	186	188
4.3 Other paper and paperboard, total:	984	986	1,109	1,187	1,257	1,297
4.31 Household and sanitary paper	100	100	100	100	100	140
4.32 Wrapping and packaging paper and paperboard, total:	833	833	955	1,032	1,100	1,100
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 and packaging paper:	..	..	..	..	..	..
4.32.31 Sack kraft	..	..	..	..	..	..
4.32.32 Other kraft wrapping and packaging paper	..	..	..	..	..	..
4.32.4 Folding boxboard:	..	..	..	..	..	..
4.32.41 Solid bleached board	..	..	..	..	..	..
4.32.42 Other folding boxboard	..	..	..	..	..	..
4.32.5 Other wrapping and packaging paper and paperboard, n. e. s.:	..	..	..	..	..	..
4.32.51 Paper	..	..	..	..	..	..
4.32.52 Paperboard	..	..	..	..	..	..
4.33 Other paper and paperboard, n. e. s., total:	51	53	54	55	57	57
4.33.1 Paper, n. e. s.	..	..	..	..	..	..
4.33.2 Paperboard, n. e. s.	..	..	..	..	..	..

	1976	1977	1978	1979	1980	1981
Total capacity	of which market pulp	Total capacity	of which market pulp	Total capacity	of which market pulp	Total capacity
92 Country: NEW ZEALAND						
1 Wood pulp for making paper and paperboard, total:	1,395	762	1,415	762	1,415	762
1.1 Mechanical	603	314	623	314	623	314
1.1.1 of which: non-coniferous	-	-	-	-	-	-
1.1.2 Chemi-mechanical and semi-chemical	65	-	65	-	65	-
1.21 of which: non-coniferous	54	-	54	-	54	-
1.3 Chemical, total:	727	448	727	448	727	448
1.31 Unbleached sulphite	-	-	-	-	-	-
1.31.1 of which: non-coniferous	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	-	-	-	-	-	-
1.32.1 of which: non-coniferous	-	-	-	-	-	-
1.33 Unbleached sulphate and soda	457	266	457	266	457	266
1.33.1 of which: non-coniferous	19	5	19	5	19	5
1.34 Bleached and semibleached sulphate and soda	270	182	270	182	270	182
1.34.1 of which: non-coniferous	17	7	17	7	17	7
2 Other fibre pulp for making paper and paperboard, total:	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	-	-	-	-	-	-
3 Dissolving pulp (wood and other fibrous raw materials)	-	-	-	-	-	-
3.1 of which: non-coniferous	-	-	-	-	-	-

92 Country: NEW ZEALAND

	1976	1977	1978	1979	1980	1981
1,000 metric tons per year						
4 Paper and Paperboard, total:	-	-	-	-	-	-
4.1 Newsprint	708	718	730	740	750	760
4.2 Other printing and writing paper, total:	325	325	325	325	325	325
4.21 Coated:	-	-	-	-	-	-
4.21.1 Wood containing	38	38	38	38	38	38
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated:	38	38	38	38	38	38
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	38	38	38	38	38	38
4.3 Other paper and paperboard, total:	345	355	367	377	387	397
4.31 Household and sanitary paper	45	45	47	47	47	47
4.32 Wrapping and packaging paper and paperboard, total:	300	310	320	330	340	350
4.32.1 Linerboard:	119	119	119	119	119	119
4.32.11 Kraft liner:	119	119	119	119	119	119
4.32.11.1 Unbleached	116	116	116	116	116	116
4.32.11.2 Bleached	3	3	3	3	3	3
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium:	25	25	25	25	25	25
4.32.21 Semi-chemical	24	24	24	24	24	24
4.32.22 Other fluting medium	1	1	1	1	1	1
4.32.3 Kraft wrapping and packaging paper:	156	166	176	186	196	206
4.32.31 Sack kraft	45	45	45	45	45	45
4.32.32 Other kraft wrapping and packaging paper	111	121	131	141	151	161
4.32.4 Folding boxboard:	-	-	-	-	-	-
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	-	-	-	-	-	-
4.32.5 Other wrapping and packaging paper and paperboard, n. e.s.:	-	-	-	-	-	-
4.32.51 Paper	-	-	-	-	-	-
4.32.52 Paperboard	-	-	-	-	-	-
4.33 Other paper and paperboard, n. e.s., total:	-	-	-	-	-	-
4.33.1 Paper, n. e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n. e.s.	-	-	-	-	-	-

	1976	1977	1978	1979	1980	1981
	Total capacity	Total capacity	Total capacity	Total capacity	Total capacity	Total capacity
	of which market pulp	of which market pulp	of which market pulp	of which market pulp	of which market pulp	of which market pulp
- 1,000 metric tons (air dry) per year -						
93 Country: U. S. S. R. (a)						
1 Wood pulp for making paper and paperboard, total:	8,850	1,400	9,250	1,500	9,650	1,600
1.1 Mechanical	2,100	-	2,150	-	2,200	-
1.11 of which: non-coniferous	..	-	..	-	..	-
1.2 Chemi-mechanical and semi-chemical	450	-	500	-	550	-
1.21 of which: non-coniferous	..	-	..	-	..	-
1.3 Chemical, total:	6,300	1,400	6,600	1,500	6,900	1,600
1.31 Unbleached sulphite	2,700	350	2,750	350	2,800	350
1.31.1 of which: non-coniferous	..	..	..	..	..	..
1.32 Bleached and semibleached sulphite	..	..	..	..	..	..
1.32.1 of which: non-coniferous	..	..	..	..	..	..
1.33 Unbleached sulphate and soda	2,800	900	2,950	1,000	3,100	1,100
1.33.1 of which: non-coniferous	..	..	..	..	..	..
1.34 Bleached and semibleached sulphate and soda	800	150	900	150	1,000	150
1.34.1 of which: non-coniferous	..	..	..	..	..	..
2 Other fibre pulp for making paper and paperboard, total:	425	..	450	..	475	..
2.1 Straw	..	..	..	..	..	..
2.2 Bagasse	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	..	..	..	..	..	..
3 Dissolving pulp (wood and other fibrous raw materials)	1,100	1,100	1,175	1,175	1,250	1,325
3.1 of which: non-coniferous	..	..	..	..	..	..

(a) Secretariat estimate.

93 Country: U.S.S.R. (a)

	1976	1977	1978	1979	1980	1981
	1,000 metric tons per year					
4 Paper and Paperboard, total:	10,000	10,500	11,000	11,500	12,000	12,500
4.1 Newsprint	1,550	1,600	1,650	1,700	1,750	1,800
4.2 Other printing and writing paper, total:	1,300	1,350	1,400	1,450	1,500	1,550
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 and paperboard, total:	7,150	7,550	7,950	8,350	8,750	9,150
4.31 Household and sanitary paper	115	115	115	115	115	115
4.32 Wrapping and packaging paper and paperboard, total:	6,385	6,770	7,155	7,540	7,925	8,310
4.32.1 Linerboard:	1,220	1,300	1,380	1,460	1,540	1,620
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:	1,040	1,130	1,220	1,310	1,400	1,490
4.32.21 Semi-chemical	..	..	..	..	..	..
4.32.22 Other fluting medium	..	..	..	..	..	..
4.32.3 Kraft wrapping and packaging paper:	1,170	1,330	1,490	1,650	1,810	1,970
4.32.31 Sack kraft	940	1,050	1,160	1,270	1,380	1,490
4.32.32 Other kraft wrapping and packaging paper	230	280	330	380	430	480
4.32.4 Folding boxboard:	1,430	1,470	1,510	1,550	1,590	1,630
4.32.41 Solid bleached board	605	640	680	720	760	800
4.32.42 Other folding boxboard	825	830	830	830	830	830
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	1,525	1,540	1,555	1,570	1,585	1,600
4.32.51 Paper	610	620	625	635	640	650
4.32.52 Paperboard	915	920	930	935	945	950
4.33 Other paper and paperboard, n.e.s., total:	650	665	680	695	710	725
4.33.1 Paper, n.e.s.	335	340	345	350	355	360
4.33.2 Paperboard, n.e.s.	315	325	335	345	355	365

(a) Secretariat estimate.

M-71

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