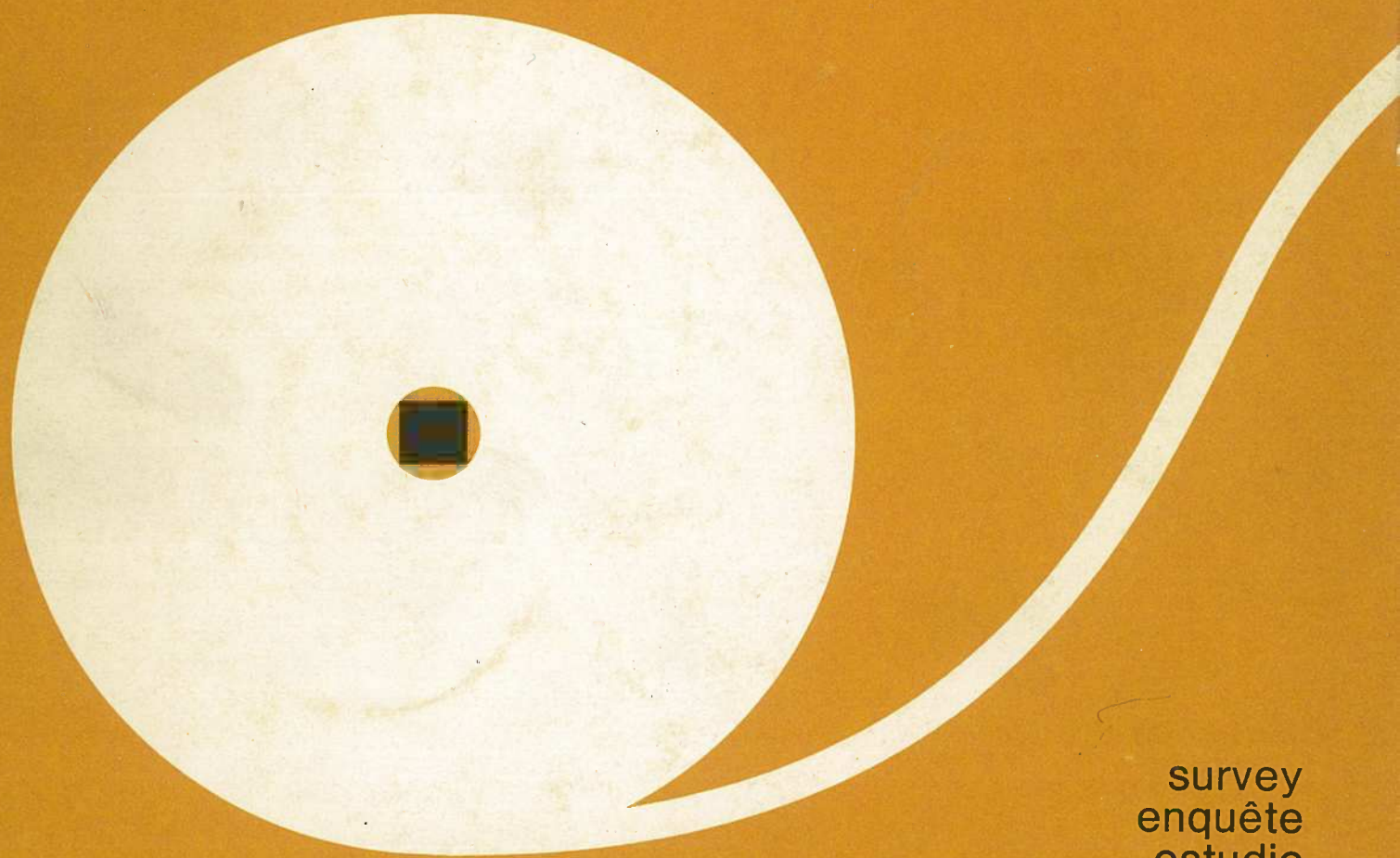


pulp and paper capacities
capacités de la pâte et du papier
capacidades de pasta y papel



survey
enquête
estudio

1975^e—1980

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS
ORGANISATION DES NATIONS UNIES POUR L'ALIMENTATION ET L'AGRICULTURE
ORGANIZACION DE LAS NACIONES UNIDAS PARA LA AGRICULTURA Y LA ALIMENTACION

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

survey
enquête
estudio

1975–1980

TABLE OF CONTENTS
TABLE DES MATIERES
INDICE

	<u>Page - Página</u>
Report on the FAO Survey of World Pulp and Paper Capacities 1975-80	I-1
Rapport concernant l'Enquête FAO sur la capacité mondiale de production de pâte et papier 1975-80	I-15
Informe de la FAO sobre la Encuesta acerca de la Capacidad Mundial de Producción de Pasta y Papel 1975-80	I-29
Annexes 1 - 11	I-43
List of Countries	
Liste de Pays	
Lista de los Países	II-1
Pulp Terminology	II-3
Paper and Paperboard Terminology	II-4
Notes for Guidance	II-5
Définitions	II-15
Notas Explicativas	II-26
Country Data	
Chiffres par Pays	
Datos Relativos a los Países	III

Report
on the
FAO Survey
of
World Pulp and Paper Capacities 1975-80

by
The Secretariat

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

The coverage, content and presentation of the survey have all undergone changes this year. The current survey for the years 1975-80 includes data for 94 countries, two more than last year. Following a review of the data which it would be meaningful and useful to collect, important revisions were made to the detailed breakdown of grades of paper and paperboard. Several more headings have been introduced this year and definitions of the product groupings revised and amplified. Particularly close attention has been paid by all concerned to the quality of the information provided and some data obtained by Jaakko Pöyry and Co. from their paper machine capacity study have been used to complement figures received from other sources. This survey, therefore, provides more detailed and more complete information on world pulp and paper capacity than has been available formerly.

Attention is drawn to the new order in which the country data have been presented. This now conforms to that used in the FAO Yearbook of Forest Products and, it is hoped will make reference to FAO statistical sources on pulp and paper that much more convenient.

The main findings of the pulp and paper capacity survey for 1975-80 are that:

- a) world capacity of paper grades of pulp is expected to rise from 136 million tons in 1975 to 161 million tons in 1980. This increase of 25 million tons represents an annual growth rate of 3.5 per cent
- b) world capacity of paper and paperboard is expected to rise from 175 million tons in 1975 to 206 million tons in 1980. This increase of 31 million tons represents an annual growth rate of 3.3 per cent

- c) both the additional 25 million tons of paper grades of pulp and the 31 million tons of paper and paperboard are lower than the very large increases of capacity envisaged in the previous survey for 1974-79 or as subsequently amended by figures received from nine countries where major expansions had been planned
- d) of the additional 17 million tons of chemical woodpulp capacity expected between 1975 and 1980, the largest increases are expected in Northern America (5.1 million tons) and in Latin America (4.0 million tons). In Brazil alone, the addition is estimated by the industry at 3.1 million tons
- e) the capacity for the production of bleached sulphate and semi-chemical hardwood pulps is expected to rise significantly from 20.5 million tons in 1975 to 26.4 million tons in 1980. This increase of 5.9 million tons compares with an additional 6.6 million tons envisaged in last year's survey
- f) the most rapid rise ever in other fibre pulp capacity is anticipated between 1975 and 1980, amounting to 2.6 million tons or 5.0 per cent a year, some 900,000 tons of which will be bagasse pulp
- g) although two thirds of the increase of 31 million tons in world paper and paperboard capacity will take place in developed countries, the developing countries with market economies are expecting a rapid expansion of 5.5 million tons, thus raising their total capacity by about one half. An almost equal volume of new capacity is expected to come on stream in the countries with centrally planned economies
- h) between 1975 and 1980 the increase in the capacity of wrapping and packaging paper and paperboard (shown for the first time this year) amounts to 15.5 million tons, which is half of the total increase of paper and paperboard
- i) the slight improvement in the future relationship of pulp to paper and paperboard capacity noted in last year's survey has been confirmed in the current one. The ratio, however, remains low.

Product and Regional Trends

The latest survey indicates that the capacity of paper grades of pulp is expected to increase from 136.1 million tons in 1975 to 161.5 million tons in 1980, at the same time as paper and paperboard capacity rises from 175.0 to 206.1 million tons. Table 1, which follows, summarises the developments by main grades and compares the current forecast with actual levels of capacity in 1965 and 1970. Details by major product and region for each of the years 1975-80 are contained in Annexes 1 - 6.

Table 1 - World Pulp, Paper and Paperboard Capacity, 1965-80

	Total Capacity				Annual Average Increase		
	1965	1970	1975	1980	1965-70	1970-75	1975-80
	-- million metric tons --				-- per cent --		
Total woodpulp, paper grades	80.8	105.8	126.8	149.6	5.5	3.7	3.4
Mechanical	23.1	27.2	30.0	34.1	3.3	2.0	2.6
Semi-chemical (a)	6.0	8.5	10.2	12.4	7.2	3.8	3.9
Chemical	51.7	70.1	86.6	103.2	6.3	4.3	3.6
Other fibre pulp	6.1	7.6	9.3	12.0	4.6	4.2	5.0
Dissolving pulp	4.8	5.5	6.0	6.6	3.0	1.7	2.1
Total paper and paperboard	106.2	140.8	175.0	206.1	5.8	4.4	3.3
Newsprint	19.0	23.5	25.2	29.7	4.4	1.4	3.4
Printing and writing	20.5	30.6	38.6	45.9	8.3	1.4	3.5
Other paper and paperboard	66.7	86.7	111.2	130.4	5.4	5.1	3.2

(a) including chemi-groundwood

The above table indicates that the rate of growth in the next five years will, on average, be somewhat slower than it has been during the past decade. On a year by year basis, however, there will be significant variations, as well as from product to product. In general, the rate of expansion of paper grades of pulp will accelerate up to 1978 and thereafter decline while that of paper and board will decelerate significantly throughout the five year period. These points are illustrated in the table which follows.

Table 2 - Annual Rate of Increases in World Pulp, Paper and Paperboard Capacity 1975-80

	Annual Increases				
	1975-76	1976-77	1977-78	1978-79	1979-80
	-- per cent --				
Total woodpulp, paper grades	3.1	3.5	3.6	3.5	3.2
Mechanical	3.0	4.0	2.6	2.1	1.3
Semi-chemical (a)	5.7	4.7	2.5	2.2	4.4
Chemical	2.8	3.2	4.0	4.1	3.7
Other fibre pulp	3.9	5.5	6.0	4.4	5.5
Dissolving pulp	2.4	2.1	3.0	1.6	1.3
Total paper and paperboard	4.3	3.8	3.4	2.7	2.4
Newsprint	2.4	3.3	5.3	3.0	2.9
Printing and writing	3.7	4.3	4.0	3.1	2.5
Other paper and paperboard	4.9	3.8	2.8	2.6	2.2

(a) including chemi-groundwood

a) Total Pulp for Papermaking

Between 1975 and 1980, an increase of 25.4 million tons of total paper pulp capacity is anticipated at an average annual rate of 3.5 per cent. Mechanical pulp will account for 4.1 million tons, chemical pulp 16.6 million tons and other fibre pulp 2.6 million tons. Whereas the planned additions of both mechanical and chemical pulp are significantly below the levels forecast in last year's survey, the additional capacity of other fibre pulp is the largest amount foreseen in any survey to date, due mainly to further expansions foreseen in India of bamboo pulp and in Mexico and Peru of bagasse pulp. The expansion in dissolving pulp capacity is only 0.7 million tons.

The developments which are taking place in hardwood pulps, mainly bleached sulphate and semi-chemical pulps, are of considerable significance. Between 1975 and 1980 expansions of 4.8 and 1.2 million tons respectively are anticipated. These figures indicate that at least half the expansion of semi-chemical and bleached sulphate pulps is based on hardwoods. Significant additions to hardwood semi-chemical pulp capacity in the next five years are planned in Canada, Argentina, Brazil, France and Sweden. In Iran, the first such mill is expected to start up in 1980. With regard to bleached sulphate hardwood pulp, the main developments will take place in U.S.A., Brazil, Finland and Portugal. Detailed data on the year by year growth in capacity is given in Annex 7.

Market pulp capacity shows marked fluctuations from one survey to the next and this year is no exception. The latest information suggests an increase between 1975 and 1978 of 3.3 million tons of paper grade pulp, including 2.8 million tons of chemical woodpulp. What is perhaps of most interest, however, is the fact that but little growth is expected in 1976 and 1977 and the major increase occurs in 1978. Northern America, Japan and Eastern Europe, that is, the traditional sources of supply, will have little more available. The major part of the additional volume is expected to come from Brazil. These developments can be traced in detail in Appendix 8.

i) Woodpulp

The volume of additional capacity of woodpulp for papermaking in the world during the five years 1975-80 is expected to be 22.8 million tons, an amount greater by 2 million tons than the capacity actually installed between 1970 and 1975. The rate of growth, however, will decline slightly from an annual rate of 3.7 to 3.4 per cent. There are some significant changes in the location of new capacity as can be noted from Table 3 (see page I-5).

Of the 22.8 million tons of new woodpulp capacity planned between 1975 and 1980, almost 14 million tons (61 per cent) will be installed in the developed countries, more than 5 million tons (23 per cent) in the developing countries and 3.6 million tons (16 per cent) in the countries with centrally planned economies. Compared to last year's survey, not only has there been a slowing down in anticipated expansion but it is more noticeable in North America, Western Europe and Japan than in the developing countries, although there has been a decline too in Latin America.

The rates of growth are expected to slow down in future in the developed countries, with the rate being more than halved in Japan and cut to almost one third in Oceania. The latter probably indicates that the expansionary phase of the industry in New Zealand has been halted, possibly only temporarily, until such time as the forests which have been planted in recent years reach maturity. In the developing countries, the overall rate of expansion will be raised by one half compared to the 11.6 per cent a year growth achieved during the last five years. Although in volume terms, Latin America, mainly Brazil, will be the largest contributor to the increase, developments in Africa, albeit from a relatively small base, are of importance.

Table 3 - Increases in Capacity of Total Woodpulp
for Papermaking, 1970-80

	Capacity			Total Increase		Annual Average Increase	
	1970	1975	1980	1970-75	1975-80	1970-75	1975-80
	----- '000 metric tons -----			-----		----- per cent -----	
World Total	105,910	126,766	149,581	20,856	22,815	3.7	3.4
Dev'ed Mkt.Economies	92,778	108,529	122,466	15,751	13,937	3.2	2.4
Northern America	56,482	63,875	70,834	7,393	6,959	2.5	2.1
Japan	9,122	11,892	13,454	2,770	1,562	5.5	2.5
Western Europe	25,627	30,210	35,038	4,583	4,828	3.3	3.0
Oceania	1,077	1,831	2,274	754	443	11.2	4.4
Others	470	721	866	251	145	8.9	3.7
Dev'ing Mkt.Economies	2,639	4,576	9,899	1,937	5,323	11.6	16.7
Africa	184	292	565	108	273	9.7	14.1
Latin America	2,022	3,298	7,637	1,276	4,339	10.3	18.3
Asia	433	986	1,697	553	711	17.9	11.5
Cent.Planned Economies	10,493	13,661	17,216	3,168	3,555	5.4	4.7
Asia	1,437	2,075	2,681	638	606	7.6	5.3
Eastern Europe	2,606	3,136	4,085	530	949	3.8	5.4
U.S.S.R.	6,450	8,450	10,450	2,000	2,000	5.5	4.3

Mechanical woodpulp

Between 1975 and 1980, it is anticipated that the capacity of mechanical pulp will rise by 4.1 million tons compared to 2.8 million tons in the previous five years. The annual rate of growth will therefore be higher at 2.6 per cent than the 1.9 per cent in the earlier period.

Table 4 - Increases in Capacity of Mechanical Woodpulp
for Papermaking, 1970-80

	Capacity			Total Increase		Annual Average Increase	
	1970	1975	1980	1970-75	1975-80	1970-75	1975-80
	----- '000 metric tons -----			-----		----- per cent -----	
World Total	27,234	29,988	34,063	2,754	4,075	1.9	2.6
Dev'ed Mkt. Economies	23,203	25,570	28,804	2,367	3,234	2.0	2.4
Northern America	12,745	12,968	14,042	223	1,074	0.3	1.6
Japan	1,501	1,765	2,346	264	581	3.3	5.9
Western Europe	8,436	9,946	11,269	1,510	1,323	3.3	2.5
Oceania	381	594	804	213	210	9.3	6.2
Others	140	297	343	157	46	16.2	2.9
Dev'ing Mkt. Economies	797	728	1,019	- 69	291	- 1.8	7.0
Africa	14	18	31	4	13	5.2	11.5
Latin America	540	388	494	- 152	106	- 6.4	4.9
Asia	243	322	494	79	172	5.8	8.9
Cent.Planned Economies	3,234	3,690	4,240	456	550	2.7	2.8
Asia	635	765	973	130	208	3.8	4.9
Eastern Europe	799	875	967	76	92	1.8	2.0
U.S.S.R.	1,800	2,050	2,300	250	250	2.6	2.3

The largest additions to capacity will be in Western Europe and Northern America and in the latter case, a much more rapid expansion is scheduled than in the recent past.

Possibly the most interesting development which has been occurring within the last few years is the installation of thermo-mechanical pulping facilities, either as additional capacity or as replacement for the traditional stone groundwood pulp. The extent of this change is not accurately known, but it is believed that within the next few years possibly some 10 per cent of 2 million tons of mechanical pulp capacity in the developed countries could be thermo-mechanical.

Semi-chemical woodpulp

Between 1975 and 1980 the capacity of chemi-mechanical and semi-chemical pulp is expected to rise from 10.2 to 12.3 million tons, an increase of 2.1 million tons or an annual rate of 3.9 per cent. These are larger increases than actually occurred during the previous five years. One half of the new capacity will be based on hardwoods.

Table 5 - Increases in Capacity of Semi-chemical Woodpulp (a)
for Papermaking, 1970-80

	Capacity			Total Increase		Annual Average Increase	
	1970	1975	1980	1970-75	1975-80	1970-75	1975-80
	'000 metric tons			tons		per cent	
World Total	8,578	10,202	12,350	1,624	2,148	3.5	3.9
Dev'ed Mkt. Economies	7,930	9,193	10,423	1,263	1,230	3.0	2.5
Northern America	3,856	4,271	5,042	415	771	2.1	3.4
Japan	2,194	2,412	2,477	218	65	1.9	0.5
Western Europe	1,643	1,999	2,336	356	337	4.0	3.2
Oceania	197	357	404	160	47	12.6	2.5
Others	40	154	164	114	10	31.0	1.3
Dev'ing Mkt. Economies	179	382	814	203	432	16.4	16.3
Africa	-	8	25	8	17	..	25.6
Latin America	159	316	581	157	265	14.7	13.0
Asia	20	58	208	38	150	23.7	29.1
Cent.Planned Economies	469	627	1,113	158	486	6.0	12.2
Asia	..	..	..	..	..	..	..
Eastern Europe	119	227	463	108	236	13.8	15.3
U.S.S.R.	350	400	650	50	250	2.7	10.2

(a) Including chemi-mechanical woodpulp

Two thirds of the anticipated increase will be in developed countries and the balance divided almost equally between the developing countries and those with centrally planned economies. More rapid developments are planned for the future in Northern America, Latin America, Eastern Europe and the U.S.S.R., whereas expansion in Japan has dwindled to negligible proportions.

Chemical woodpulp for papermaking

Chemical woodpulp accounted for just under 65 per cent of total papermaking pulp in 1975 and this proportion is not expected to change within the next five years. Between 1975 and 1980 capacity is expected to expand from 86.6 to 103.2 million tons or by 16.6 million tons equivalent to 3.6 per cent a year. This rate is significantly less than

that actually achieved between 1965 and 1970 and slightly below the average rate experienced from 1970-1975.

Table 6 - Increases in Capacity of Chemical Woodpulp
for Papermaking, 1970-80

	Capacity			Total Increase		Annual Average Increase	
	1970	1975	1980	1970-75	1975-80	1970-75	1975-80
	'000 metric tons					per cent	
World Total	70,098	86,576	103,168	16,478	16,592	4.3	3.6
Dev'd Mkt. Economies	61,645	73,766	83,239	12,121	9,473	3.7	2.4
Northern America	39,881	46,636	51,750	6,755	5,114	3.2	2.1
Japan	5,427	7,715	8,631	2,288	916	7.3	2.3
Western Europe	15,548	18,265	21,433	2,717	3,168	3.3	3.3
Oceania	499	880	1,066	381	186	12.0	3.9
Others	290	270	359	- 20	89	- 1.4	5.9
Dev'ing Mkt. Economies	1,663	3,466	8,066	1,803	4,600	15.8	18.4
Africa	170	266	509	96	243	9.4	13.9
Latin America	1,323	2,594	6,562	1,271	3,968	14.4	20.6
Asia	170	606	995	436	389	28.9	10.4
Cent.Planned Economies	6,790	9,344	11,863	2,554	2,519	6.6	4.9
Asia	802	1,310	1,708	508	398	10.3	5.5
Eastern Europe	1,688	2,034	2,655	346	621	3.8	5.5
U.S.S.R.	4,300	6,000	7,500	1,700	1,500	6.9	4.6

A more detailed analysis of the developments occurring in chemical pulp reveals that expansion in sulphite pulp capacity has ceased and a marginal decline is now in evidence. The total increase in chemical pulp capacity mentioned above is therefore exclusively of sulphate pulp which means that the expansion of this grade of pulp is at the annual rate of 4.1 per cent between 1975 and 1980. The decline in sulphite pulp capacity is most rapid in the Nordic countries, United States and Japan, where in total about 1 million tons will have been removed from capacity in the ten years to 1980. The pace of closures would appear to be accelerating as 300,000 tons were withdrawn between 1970 and 1975 and 700,000 tons are planned for withdrawal in the next five years. These reductions in capacity are partially counterbalanced by increases in some Western European countries, notably the Federal Republic of Germany and Yugoslavia.

ii) Other fibre pulp

Between 1975 and 1980, it is anticipated that the capacity of other fibre pulp for papermaking, excluding waste paper, will increase from 9.3 to 11.9 million tons, or by 2.6 million tons, equivalent to an annual rate of 5.0 per cent. This represents the largest increase in capacity in any of the surveys to date. It should be noted that the capacity of other fibre pulp in the United States has been revised downward as it was found to include some pulp for non-papermaking purposes.

Capacity in the developed countries will remain static between 1975 and 1980, partly due to the closure of some straw pulping facilities in Western Europe. About two thirds of the overall increase in capacity will result from expansions in the developing countries and the balance from new or expanded installations in the countries with centrally planned economies. About one third of the total increase, or 900,000 tons, will be bagasse pulp, mainly in Mexico and Peru; some 400,000 tons of bamboo pulp is

planned to come on stream, almost all of it in India.

Table 7 - Increases in Capacity of Other Fibre Pulp
for Papermaking, 1970-80

	Capacity			Total Increase		Annual Average Increase	
	1970	1975	1980	1970-75	1975-80	1970-75	1975-80
	'000 metric tons					per cent	
World Total	7,622	9,344	11,949	1,722	2,605	4.2	5.0
Dev'd Mkt. Economies	2,272	1,792	1,818	- 480	26	- 4.6	0.3
Northern America	1,000	642	684	- 358	42	- 8.5	1.3
Japan	6	4	4	- 2	-	- 7.7	-
Western Europe	1,224	1,083	1,021	- 141	- 62	- 2.4	- 1.2
Oceania	2	6	6	4	-	24.6	-
Others	40	57	103	17	46	7.3	12.6
Dev'ing Mkt. Economies	1,915	2,256	3,892	341	1,636	3.3	11.5
Africa	125	175	228	50	53	7.0	5.4
Latin America	822	872	1,717	50	845	1.2	14.5
Asia	968	1,209	1,947	241	738	4.5	10.0
Cent. Planned Economies	3,435	5,296	6,239	1,861	943	9.0	3.3
Asia	2,545	4,665	5,465	2,120	800	12.9	3.2
Eastern Europe	240	231	249	- 9	18	- 0.8	1.5
U.S.S.R.	650	400	525	- 250	125	- 9.3	5.6

iii) Dissolving pulp

The modest growth of dissolving pulp is forecast to continue at the slightly accelerated rate of 2.1 per cent, having been 1.7 per cent on average between 1970 and 1975. Some 600,000 tons of additional capacity are planned, mainly in Canada and U.S.S.R.

b) Paper and Paperboard

The total paper and paperboard capacity in the world is expected to increase from 175.0 million tons in 1975 to 206.1 million tons in 1980 at an annual rate of 3.3 per cent. The volume of additional capacity, 31.1 million tons, is significantly less than that envisaged in last year's survey, 37.2 million tons, illustrating in a striking manner the reassessment and postponement which has occurred in the expansion of the industry. As has already been noted in Table 2, the rate of annual increase will decline from a high of 4.3 per cent in 1975-76 to a low of 2.4 per cent in 1979-80.

Some two thirds of new capacity will be located in the developed countries, with a particularly slow rate of increase, 1.9 per cent a year, envisaged in Northern America. In Japan, only half as much volume is expected to be added to capacity as was put into operation between 1970 and 1975. On the other hand in the developing countries, the future rate of progress, although slightly lower than in the recent past, will involve an expansion of 5.5 million tons. A marginally smaller amount is expected to be installed in the centrally planned economy countries between 1975 and 1980.

Regional trends are illustrated in the following table.

Table 8 - Increases in Capacity of Total Paper and
Paperboard, 1970-80

	Capacity			Total Increase		Annual Average Increase	
	1970	1975	1980	1970-75	1975-80	1970-75	1975-80
	'000 metric tons					per cent	
World Total	140,844	175,002	206,062	34,158	31,060	4.4	3.3
Dev'ed Mkt. Economies	117,737	141,335	161,779	23,598	20,444	3.7	2.7
Northern America	63,514	71,390	78,462	7,876	7,072	2.4	1.9
Japan	12,984	19,844	23,290	6,860	3,446	8.9	3.3
Western Europe	38,927	47,082	56,171	8,155	9,089	3.9	3.6
Oceania	1,619	1,980	2,521	361	554	4.1	5.1
Others	693	1,039	1,322	346	283	8.5	4.9
Dev'ing Mkt. Economies	6,889	11,214	16,739	4,325	5,525	10.2	8.3
Africa	340	665	863	325	198	14.4	5.4
Latin America	4,569	6,783	10,387	2,214	3,604	8.2	8.9
Asia	1,980	3,766	5,489	1,786	1,723	13.7	7.8
Cent. Planned Economies	16,218	22,453	27,544	6,235	5,091	6.7	4.2
Asia	4,686	7,864	9,187	3,178	1,323	10.9	3.2
Eastern Europe	4,032	5,089	6,357	1,057	1,268	4.8	4.5
U.S.S.R.	7,500	9,500	12,000	2,000	2,500	4.8	4.8

Newsprint

During the next five years, newsprint capacity in the world is expected to increase at an annual average rate of 3.4 per cent. In the previous five year period, growth was less marked, owing to reductions in several regions. The future growth rate could have been even higher than 3.4 per cent had it not been for the trend towards the manufacture of lighter weight newsprint in many countries.

Attention was drawn in last year's survey to the effect on capacity of a change in grammage in Canada. Subsequent enquiries have revealed that many other major producing countries are similarly lowering the grammage with the result that the volume of capacity is reduced but not the surface measure. Among the countries which now report their newsprint capacity in tonnages corresponding to the actual grammage expected to be made and which is normally lower than 52 g/m² are Finland, Sweden, France, U.K., U.S.A. and Australia. In New Zealand and Chile most production will be of 48.8 g/m² newsprint instead of 52 g/m² as in the recent past. For many other countries no changes are as yet contemplated and the newsprint currently being manufactured is mainly 52 g/m². The necessary detail is not available to permit an accurate assessment of how much capacity has been "lost" in any one year by the demand for lighter weight newsprint. Over the years that this trend has been evident, however, it must have been considerable, possibly amounting to 300 - 400,000 tons for the eight countries previously mentioned. "Losses" could continue in the future as more countries accept lightweight newsprint and weights even lower than 48.8 g/m² prove acceptable.

Table 9 - Increases in Capacity of Newsprint, 1970-80

	Capacity			Total Increase		Annual Average Increase	
	1970	1975	1980	1970-75	1975-80	1970-75	1975-80
	'000 metric tons					per cent	
World Total	23,532	25,186	29,723	1,654	4,537	1.4	3.4
Dev'ed Mkt. Economies	20,593	21,735	24,829	1,142	3,094	1.1	2.7
Northern America	11,896	12,705	13,580	809	875	1.3	1.3
Japan	1,959	2,446	3,335	487	889	4.5	6.4
Western Europe	6,188	5,934	7,091	- 254	1,157	- 0.8	3.6
Oceania	393	413	545	20	132	1.0	5.7
Others	157	237	278	80	41	8.6	3.2
Dev'ing Mkt. Economies	612	768	1,719	156	951	4.6	17.5
Africa	13	13	34	-	21	-	21.2
Latin America	328	310	930	- 18	620	- 1.1	24.6
Asia	271	445	755	174	310	10.4	11.2
Cent. Planned Economies	2,327	2,683	3,175	356	492	2.9	3.4
Asia	674	830	980	156	150	4.3	3.4
Eastern Europe	403	353	445	- 50	92	- 2.6	4.7
U.S.S.R.	1,250	1,500	1,750	250	250	3.7	3.1

The above table illustrates the regional division of newsprint capacity. Compared to last year's survey, more capacity is planned to come on stream in the developed countries in the next five years, whereas in the developing countries and those with centrally planned economies there has been no significant change. Nonetheless, the rate of expansion anticipated in the developing countries is very rapid.

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 just over 1.2 million tons of extra capacity is expected to become available between 1975 and 1980. The annual rate of increase of nearly 8 per cent compares to the much lower figure of 3 per cent for the developed countries. These developments are illustrated in Table 10 (see page I-11).

Attention is drawn in the table to the lack of comparability between the 1970 and subsequent figures for the centrally planned economy countries. This is due to a reassessment of the figures for China and the U.S.S.R. which was made after 1970.

If the additional capacity indicated above is installed as planned in the developing countries as well as the volume of newsprint indicated in Table 9, the developing countries should by 1980 have 7.4 per cent of total world capacity of cultural papers compared to 5.5 per cent in 1975. This would make a significant contribution to the satisfaction of their demand for these papers.

Table 10 - Increases in Capacity of Other Printing and
Writing Paper, 1970-80

	Capacity			Total Increase		Annual Average Increase	
	1970	1975	1980	1970-75	1975-80	1970-75	1975-80
	'000 metric tons			-		per cent	
World Total	30,626	38,626	45,929	8,000	7,303	4.8	3.5
Dev'ed Mkt. Economies	25,493	31,667	36,828	6,174	5,161	4.4	3.1
Northern America	11,929	13,855	15,324	1,926	1,469	3.0	2.0
Japan	2,472	3,392	4,101	920	709	6.5	3.9
Western Europe	10,793	14,001	16,776	3,208	2,775	5.3	3.7
Oceania	205	270	380	65	110	5.7	7.1
Others	94	149	247	55	98	9.7	10.6
Dev'ing Mkt. Economies	1,783	2,710	3,943	927	1,233	8.7	7.8
Africa	87	193	265	106	72	17.3	6.5
Latin America	987	1,285	1,906	298	621	5.4	8.2
Asia	709	1,232	1,772	523	540	11.7	7.5
Cent. Planned Economies	3,350	4,249	5,158	899	909	4.9	4.0
Asia	995	2,082	2,492	1,087	410	15.9	3.7
Eastern Europe	1,055	917	1,166	- 138	249	- 2.7	4.9
U.S.S.R.	1,300	1,250	1,500	- 50	250	- 0.8	3.7

Ratio of Paper Pulp to Paper and Paperboard Capacity

For the past ten years the proportion of pulp to paper and board capacity has been moving steadily downwards. In last year's survey it was noted that there were signs of a reversal of this trend, which is now confirmed by the results of the present survey. A slight upward movement in the ratio is expected to occur in 1979 and 1980, by which time the expansion of papermaking capacity will be at a slower rate than that of pulp. The pulp to paper and board ratios in past and future years are as follows:

	<u>Pulp/Paper Ratio</u> <u>per cent</u>
1965	81.8
1970	80.5
1974	79.1
1975	77.8
1976	76.9 (a)
1977	76.8 (a)
1978	77.0 (a)
1979	77.6 (a)
1980	78.4 (a)

(a) as forecast in 1975-80 survey

Comparison with earlier surveys

The current survey for the period 1975-80 is not only less optimistic than the one prepared a year ago but is also lower than that survey following certain downward adjustments to it which were based on amendments from nine countries where significant expansion plans were contemplated. The nine countries involved were Canada, U.S.A., Brazil, Finland, France, Federal Republic of Germany, Sweden, U.K. and Japan.

The growth envisaged between 1975 and 1980 is of only 25.4 million tons of paper-making pulp and 31.1 million tons of paper and board. There would seem to have been a certain postponement of plans to bring new capacity on stream, possibly due to the poor market and financial conditions prevailing in most countries during 1975. The comparison with earlier surveys is illustrated in the following table and in Appendix 9.

<u>Period covered by Survey</u>	<u>Total Increase over period</u>	
	<u>Total pulp for paper- making</u>	<u>Total paper and paper- board</u>
	- 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	29.9	37.2
1974-79 (a)	26.7	33.3
1975-80	25.4	31.1

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

Reference was made to the particularly optimistic nature of last year's capacity forecasts, be they of pulp or of paper and paperboard. This view in respect of pulp is confirmed once again by the results of the present survey. The actual capacity of woodpulp for papermaking in 1975 of 126.8 million tons is much lower than was expected in any survey, including last year's (128.6 million tons). Annex 10 is included to illustrate this point.

For paper and paperboard a different picture emerges from an examination of the figures. The results of the 1969-74 and 1970-75 surveys were optimistic in that they included forecasts of capacity higher than were actually achieved. The two following surveys produced results which have proved to be considerably below actual capacity and the surveys of 1973-78 and 1974-79 "corrected" or even over "corrected" that situation. The present results appear to be in line with actual past developments of capacity, as can be seen from Appendix 11, but only time will tell whether they will faithfully portray the future.

The latest estimates of both total pulp for papermaking and paper and paperboard are significantly lower than those prepared a year ago. On a year by year basis, compared to last year's survey, the pulp figures show an increasing reduction in each succeeding year from a decline of 1.4 million tons in 1975, to 3.3 million tons in 1976, 4.0 in 1977, 5.8 in 1978 and to 5.9 million tons in 1979. In 1980, the anticipated capacity is less than was expected to be available in 1979 according to last year's survey. The situation in

paper and paperboard is slightly different showing a higher figure for 1975 in the current survey, but thereafter reductions for the rest of the period. The capacity in 1980 is expected to be higher than the level for 1979 indicated in last year's survey. Present and future market conditions have been given as the main reasons for the delayed start up or planning of projects in Italy, Argentina and France. Future expansions in Sweden and Finland are being closely regulated by the governments of those countries mainly to ensure the economic utilisation of the available wood supplies.

For the main grades of pulp, paper and paperboard, the overall additional capacity foreseen for the periods covered by the last three surveys is as follows:

	<u>Survey</u> <u>1973-78</u>	<u>Survey</u> <u>1974-79</u>	<u>Survey</u> <u>1974-79</u> (a)	<u>Survey</u> <u>1975-80</u>
	- - - - - '000 metric tons - - - - -			
Total woodpulp	21,527	27,504	24,306	22,815
of which				
Mechanical	4,004	5,354	4,773	4,075
Semi-chemical (b)	2,270	2,862	2,298	2,148
Chemical	15,253	19,288	17,235	16,592
Other fibre pulp	2,046	2,431	2,431	2,605
Total paper and paperboard	32,388	37,180	33,256	31,060
of which				
Newsprint	4,013	4,165	4,579	4,537
Other printing and writing	6,993	8,801	7,671	7,303
Other paper and paperboard	21,382	24,214	21,008	19,220
- wrapping and packaging	..	..	..	15,493

(a) after amendment by nine countries

(b) including chemi-groundwood

Rapport
concernant
l'Enquête FAO
sur
la capacité mondiale de production de pâte et papier - 1975-80
 par
 le Secrétariat

L'enquête annuelle que fait 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 par les correspondants et, pour les autres, sur des estimations du Secrétariat. En général, les données sont fournies par les associations nationales des industries de la pâte et du papier à partir des indications que les membres de ces associations ont données au sujet de leurs plans de développement. 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 ont été modifiés au cours de cette année. La présente enquête, qui porte sur les années 1975-80 comprend des données relatives à 94 pays, soit 2 de plus que l'an dernier. A la suite d'un examen au cours duquel on a déterminé les données qu'il serait intéressant et utile de recueillir, on a apporté des modifications importantes à la ventilation détaillée des catégories de papier et carton. Plusieurs rubriques nouvelles ont été introduites cette année et l'on a révisé et amplifié les définitions relatives aux groupes de produits. Tous les intéressés se sont particulièrement préoccupés de la qualité de l'information et certaines données provenant d'une étude de Jaakko Pöyry and Co. sur la capacité des machines papetières ont été utilisées pour compléter les indications obtenues d'autres sources. La présente enquête apporte donc des renseignements plus détaillés et plus complets qu'auparavant sur la capacité mondiale de pâte et de papier.

On remarquera que les données par pays sont désormais présentées dans un ordre nouveau. Cet ordre est celui de l'Annuaire FAO des produits forestiers: on espère faciliter ainsi considérablement les références aux statistiques FAO de la pâte et du papier.

Les principales conclusions de l'Enquête de 1975-80 sont les suivantes:

- a) on prévoit que la capacité mondiale de production des pâtes pour papier passera de 136 millions de tonnes en 1975 à 161 millions de tonnes en 1980. Ces 25 millions de tonnes supplémentaires correspondent à un taux de croissance annuel de 3,5 pour cent
- b) on prévoit que la capacité mondiale de production de papier et carton passera de 175 millions de tonnes en 1975 à 206 millions de tonnes en 1980. Ces 31 millions de tonnes correspondent à un taux annuel de croissance de 3,3 pour cent

- c) ces chiffres de 25 millions de tonnes pour des pâtes à papier et de 31 millions de tonnes pour les papiers et cartons sont tous deux inférieurs aux accroissements de capacité très considérables envisagés dans l'Enquête de 1974-79 ou aux prévisions ultérieurement présentées pour tenir compte des chiffres fournis par neuf pays qui projetaient des expansions majeures
- d) sur les 17 millions de tonnes d'augmentation de la capacité de production de pâte chimique que l'on prévoit entre 1975 et 1980, les accroissements les plus considérables se situent en Amérique du Nord (5,1 millions de tonnes) et en Amérique latine (4 millions de tonnes). Rien qu'au Brésil, l'industrie prévoit une augmentation de 3,1 millions de tonnes
- e) la capacité de production de pâte au sulfate blanchie et de pâte semi-chimique de feuillus devrait augmenter dans des proportions appréciables, passant de 20,5 millions de tonnes en 1975 à 26,4 millions de tonnes en 1980. Cette augmentation de 5,9 millions de tonnes est à mettre en regard des 6,6 millions de tonnes envisagées dans l'enquête de l'an dernier
- f) On prévoit entre 1975 et 1980 une augmentation sans précédent de la capacité de production de pâte d'autres fibres. L'accroissement serait de 2,6 millions de tonnes, soit 5 pour cent par an, dont 900 000 tonnes pour la pâte de bagasse
- g) Bien que les deux-tiers des 31 millions de tonnes d'accroissement de la capacité mondiale de production de papier et carton doivent se situer dans les pays développés, les pays en développement à économie de marché prévoient une expansion rapide, de 5,5 millions de tonnes, qui augmenterait de moitié environ leur capacité totale de production. On prévoit une expansion à peu près égale dans les pays à économie centralement planifiée
- h) Entre 1975 et 1980, l'accroissement de la capacité de production de papiers et cartons d'emballage (indiquée pour la première fois cette année) s'élèverait à 15,5 millions de tonnes, ce qui représente la moitié de l'augmentation totale pour les papiers et cartons
- i) la tendance à une légère amélioration du rapport entre la capacité de production de pâte et la capacité de production de papiers et cartons qui avait été notée l'an dernier, a été confirmée par l'enquête actuelle. Néanmoins, le rapport reste faible.

Tendances par produit et par régions

Selon l'enquête la plus récente, la capacité de production des pâtes pour papier passera de 136,1 millions de tonnes en 1975 à 161,5 millions de tonnes en 1980, tandis que la capacité de production de papier et de carton passera de 175 à 206,1 millions de tonnes. Le tableau 1 ci-dessous indique l'évolution de la capacité mondiale par grandes catégories de produits et permet de comparer les prévisions actuelles avec les capacités effectives en 1965 et 1970. On trouvera aux annexes 1 à 6 une ventilation par régions et par grandes catégories de produits pour chacune des années de la période 1975-80.

Tableau 1 - Capacité mondiale de production de pâte, de papier
et de carton, 1965-80

	<u>Capacité totale</u>				<u>Taux annuel moyen d'accroissement</u>		
	1965	1970	1975	1980	1965-70	1970-75	1975-80
	- - millions de tonnes - -				- - - pourcentage - - - - -		
Pâte de bois pour papier, total	80,8	105,8	126,8	149,6	5,5	3,7	3,4
Mécanique	23,1	27,2	30,0	34,1	3,3	2,0	2,6
Mi-chimique (a)	6,0	8,5	10,2	12,4	7,2	3,8	3,9
Chimique	51,7	70,1	86,6	103,2	6,3	4,3	3,6
Pâte d'atres fibres	6,1	7,6	9,3	12,0	4,6	4,2	5,0
Pâte à dissoudre	4,8	5,5	6,0	6,6	3,0	1,7	2,1
Papier et carton, total	106,2	140,8	175,0	206,1	5,8	4,4	3,3
Papier journal	19,0	23,5	25,2	29,7	4,4	1,4	3,4
Papier d'impression et d'écriture	20,5	30,6	38,6	45,9	8,3	4,8	3,5
Autres papiers et cartons	66,7	86,7	111,2	130,4	5,4	5,1	3,2

(a) Y compris la pâte chimico-mécanique

Il ressort du tableau ci-dessus que pendant les cinq prochaines années, le taux d'accroissement sera en moyenne un peu plus faible qu'au cours de la dernière décennie. Toutefois, on constate des variations appréciables d'une année à l'autre. En général, le taux d'expansion des pâtes pour papier s'accroîtra jusqu'en 1978 et fléchira par la suite, tandis que le taux d'expansion des papiers et cartons se ralentira notablement tout au long des cinq années de la période. 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 1975-80

	<u>Accroissements annuels</u>				
	1975-76	1976-77	1977-78	1978-79	1979-80
	- - - - - pourcentage - - - - -				
Pâte de bois pour papier, total	3,1	3,5	3,6	3,5	3,2
Mécanique	3,0	4,0	2,6	2,1	1,3
Mi-chimique (a)	5,7	4,7	2,5	2,2	4,4
Chimique	2,8	3,2	4,0	4,1	3,7
Pâte d'autres fibres	3,9	5,5	6,0	4,4	5,5
Pâte à dissoudre	2,4	2,1	3,0	1,6	1,3
Papier et carton, total	4,3	3,8	3,4	2,7	2,4
Papier journal	2,4	3,3	5,3	3,0	2,9
Papier d'impression et d'écriture	3,7	4,3	4,0	3,1	2,5
Autres papiers et cartons	4,9	3,8	2,8	2,6	2,2

(a) Y compris la pâte chimico-mécanique

a) Pâte pour papier, total

Entre 1975 et 1980, la capacité totale de production de pâte pour papier devrait augmenter de 25,4 millions de tonnes, correspondant à un taux annuel moyen de 3,5 pour cent. Sur ce total, 4,1 millions de tonnes correspondront à la pâte mécanique, 16,6 millions de tonnes à la pâte chimique et 2,6 millions de tonnes aux pâtes d'autres fibres. Alors que les accroissements projetés pour la pâte mécanique et la pâte chimique sont sensiblement inférieurs à ceux que l'on avait prévu dans l'enquête de l'an dernier, l'accroissement de la capacité de production de pâte d'autres fibres dépasse ceux qui avaient été prévus dans toutes les enquêtes antérieures, en raison notamment des expansions prévues en Inde concernant la pâte de bambou et au Mexique et au Pérou concernant la pâte de bagasse. L'expansion de la capacité de production de pâte à dissoudre serait de 0,7 million de tonnes seulement.

Le progrès des pâtes de feuillus, surtout les pâtes au sulfate blanchies et les pâtes mi-chimiques présente une importance considérable. Entre 1975 et 1980, les expansions prévues dans ces domaines se chiffrent respectivement à 4,8 et 1,2 millions de tonnes. Il en résulte que l'expansion des pâtes mi-chimiques et des pâtes au sulfate blanchies repose pour moitié au moins sur l'utilisation des feuillus. Des accroissements appréciables de la capacité de pâte mi-chimique de feuillus sont prévus pour les cinq prochaines années au Canada, en Argentine, au Brésil, en France et en Suède. En Iran, la première usine de ce genre doit démarrer en 1980. En ce qui concerne des pâtes de feuillus au sulfate blanchies, les principaux progrès devraient se situer aux Etats-Unis, au Brésil, en Finlande et au Portugal. On trouvera à l'annexe 7 des indications détaillées sur l'évolution annuelle des capacités.

La capacité de production de pâte marchande a subi des fluctuations marquées d'une enquête à l'autre, et la présente année ne fait pas exception à la règle. Selon les dernières informations, la capacité de pâte marchande pour papier augmenterait entre 1975 et 1978 de 3,3 millions de tonnes, dont 2,8 millions de tonnes pour la pâte chimique. Toutefois, ce qu'il importe peut-être le plus de noter est le fait que l'on prévoit une faible expansion en 1976 et 1977 et que le principal accroissement se situera en 1978. Les disponibilités de l'Amérique du Nord, du Japon et de l'Europe orientale - sources traditionnelles d'approvisionnements - n'augmenteront que faiblement. La majeure partie de l'accroissement devrait être imputable au Brésil. Des détails de cette évolution sont indiqués dans l'annexe 8.

i) Pâte de bois

La capacité mondiale de fabrication de pâte de bois pour papier devrait augmenter au cours des cinq années 1975-80 de 22,8 millions de tonnes, soit 2 millions de tonnes de plus qu'entre 1970 et 1975. Toutefois, le taux de croissance fléchira légèrement, le pourcentage annuel tombant de 3,7 à 3,4. La répartition géographique de la capacité de production nouvelle subira certains changements notables, ainsi qu'il ressort du tableau 3 (voir page I-19).

Le supplément de capacité de 22,8 millions de tonnes prévu entre 1975 et 1980 se ventile comme suite: près de 14 millions de tonnes (61 pour cent) dans les pays développés, plus de 5 millions de tonnes (23 pour cent) dans les pays en développement et 3,6 millions de tonnes (16 pour cent) dans les pays à économies centralement planifiées. Si par rapport à l'enquête précédente, l'expansion prévue est moins rapide et le ralentissement est plus notable en Amérique du Nord, en Europe occidentale et au Japon que dans les pays en développement, bien que la progression se ralentisse aussi en Amérique latine.

On pense qu'à l'avenir les taux de croissance fléchiront dans les pays développés, de plus de moitié au Japon et de près des deux-tiers en Océanie. Cette dernière indication montre probablement que l'expansion de l'industrie néo-zélandaise marque un arrêt, peut-être temporaire, en attendant que les forêts plantées ces dernières années parviennent à maturité. Dans les pays en développement, le taux général d'expansion augmentera de moitié par rapport au pourcentage annuel de 11,6 réalisé au cours des cinq dernières années. Bien qu'en volume, ce soit l'Amérique latine - principalement le Brésil - qui contribue le plus à l'accroissement, les progrès de l'Afrique bien qu'ils partent d'une base relativement modeste - revêtent de l'importance.

Tableau 3 - Accroissement de la capacité de production totale de pâte
de bois pour papier, 1970-80

	Capacité			Augmentation totale		Augmentation annuelle moyenne	
	1970	1975	1980	1970-75	1975-80	1970-75	1975-80
	----- milliers de tonnes -----			-----		- pourcentage -	
Total mondial	105 910	126 766	149 581	20 856	22 815	3,7	3,4
Pays dev. à écon.marché	92 779	108 529	122 466	15 751	13 937	3,2	2,4
Amérique du Nord	56 482	63 875	70 834	7 393	6 959	2,5	2,1
Japon	9 122	11 892	13 454	2 770	1 562	5,5	2,5
Europe occidentale	25 627	30 210	35 038	4 583	4 828	3,3	3,0
Océanie	1 077	1 831	2 274	754	443	11,2	4,4
Autres	470	721	866	251	145	8,9	3,7
Pays en dev. à écon.marché	2 639	4 576	9 899	1 937	5 323	11,6	16,7
Afrique	184	292	565	108	273	9,7	14,1
Amérique latine	2 022	3 298	7 637	1 276	4 339	10,3	18,3
Asie	433	986	1 697	553	711	17,9	11,5
Pays à écon.cent. planif.	10 493	13 661	17 216	3 168	3 555	5,4	4,7
Asie	1 437	2 075	2 681	638	606	7,6	5,3
Europe orientale	2 606	3 136	4 085	530	949	3,8	5,4
U.R.S.S.	6 450	8 450	10 450	2 000	2 000	5,5	4,3

Pâte mécanique

Entre 1975 et 1980, on prévoit que la capacité de pâte mécanique augmentera de 4,1 millions de tonnes, au lieu de 2,8 millions de tonnes au cours des cinq années précédentes. Le taux annuel de croissance dépassera donc celui de la période antérieure (2,6 pour cent au lieu de 1,9 pour cent).

Tableau 4 - Accroissement de la capacité de production de pâte
mécanique pour papier, 1970-80

	Capacité			Augmentation totale		Augmentation annuelle moyenne	
	1970	1975	1980	1970-75	1975-80	1970-75	1975-80
	----- milliers de tonnes -----			-----		- pourcentage -	
Total mondial	27 234	29 988	34 063	2 754	4 075	1,9	2,6
Pays dev. à écon.marché	23 203	25 570	28 804	2 367	3 234	2,0	2,4
Amérique du Nord	12 745	12 968	14 042	223	1 074	0,3	1,6
Japon	1 501	1 765	2 346	264	581	3,3	5,9
Europe occidentale	8 436	9 946	11 269	1 510	1 323	3,3	2,5
Océanie	381	594	804	213	210	9,3	6,2
Autres	140	297	343	157	46	16,2	2,9
Pays en dev. à écon.marché	797	728	1 019	- 69	291	- 1,8	7,0
Afrique	14	18	31	4	13	5,2	11,5
Amérique latine	540	388	494	- 152	106	- 6,4	4,9
Asie	243	322	494	79	172	5,8	8,9
Pays à écon.cent. planif.	3 234	3 690	4 240	456	550	2,7	2,8
Asie	635	765	973	130	208	3,8	4,9
Europe orientale	799	875	967	76	92	1,8	2,0
U.R.S.S.	1 800	2 050	2 300	250	250	2,6	2,3

Les plus fortes augmentations de capacité se situeront en Europe occidentale et en Amérique du Nord. Dans cette dernière région, l'expansion prévue est beaucoup plus rapide qu'au cours de la période récente.

La nouveauté la plus intéressante peut-être des quelques dernières années est la mise en place d'installations de défibrage thermo-mécaniques, soit comme capacité supplémentaire, soit à la place des défibreurs à meule classiques. On ne connaît pas exactement l'ampleur de cette évolution, mais on pense qu'au cours des prochaines années, les installations thermo-mécaniques pourront représenter environ 10 pour cent de la capacité de production des pays développés, chiffrée à 2 millions de tonnes.

Pâte de bois mi-chimique

Entre 1975 et 1980, la capacité de production de pâte chimico-mécanique et mi-chimique devrait passer de 10,2 à 12,3 millions de tonnes, soit un accroissement de 2,1 millions de tonnes ou de 3,9 pour cent par an. Ces progressions sont supérieures à celles qui ont été réalisées au cours des cinq années antérieures. La moitié de la capacité nouvelle utilisera les feuillus.

Tableau 5 - Accroissement de la capacité de production de pâte de bois mi-chimique pour papier, 1970-80 (a)

	Capacité			Augmentation totale		Augmentation annuelle moyenne	
	1970	1975	1980	1970-75	1975-80	1970-75	1975-80
	----- milliers de tonnes -----			-----		- pourcentage -	
Total mondial	8 578	10 202	12 350	1 624	2 148	3,5	3,9
Pays dev. à écon. marché	7 930	9 193	10 423	1 263	1 230	3,0	2,5
Amérique du Nord	3 856	4 271	5 042	415	771	2,1	3,4
Japon	2 194	2 412	2 477	218	65	1,9	0,5
Europe occidentale	1 643	1 999	2 336	356	337	4,0	3,2
Océanie	197	357	404	160	47	12,6	2,5
Autres	40	154	164	114	10	31,0	1,3
Pays en dev. à écon. marché	179	382	814	203	432	16,4	16,3
Afrique	-	8	25	8	17	..	25,6
Amérique latine	159	316	581	157	265	14,7	13,0
Asie	20	58	208	38	150	23,7	29,1
Pays à écon. centr. planif.	469	627	1 113	158	486	6,0	12,2
Asie	..	..	..	..	..	..	..
Europe orientale	119	227	463	108	236	13,8	15,3
U.R.S.S.	350	400	650	50	250	2,7	10,2

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

Les deux-tiers de l'accroissement prévu se situeront dans les pays développés, le reste étant réparti à peu près également entre les pays en développement et les pays à économie centralement planifiée. On prévoit une accélération en Amérique du Nord, en Amérique latine, en Europe orientale et en U.R.S.S., alors qu'au Japon, l'expansion était devenue négligeable.

Pâte de bois chimique pour papier

La pâte chimique constituait tout près de 65 pour cent du total des pâtes à papier en 1975 et l'on ne pense pas que cette proportion doive se modifier au cours des cinq

prochaines années. Entre 1975 et 1980, la capacité devrait passer de 86,6 à 103,2 millions de tonnes, soit une augmentation de 16,6 millions de tonnes équivalant à 3,6 pour cent. Ce taux est sensiblement inférieur à celui qui a été réalisé entre 1965 et 1970 et légèrement plus faible que le taux moyen enregistré entre 1970 et 1975.

Tableau 6 - Accroissement de la capacité de production de pâte de bois chimique pour papier, 1970-80

	Capacité			Augmentation totale		Augmentation annuelle moyenne	
	1970	1975	1980	1970-75	1975-80	1970-75	1975-80
	----- milliers de tonnes -----			-----		- pourcentage -	
Total mondial	70 098	86 576	103 168	16 478	16 592	4,3	3,6
Pays dév. à écon. marché	61 645	73 766	83 239	12 121	9 473	3,7	2,4
Amérique du Nord	39 881	46 636	51 750	6 755	5 114	3,2	2,1
Japon	5 427	7 715	8 631	2 288	916	7,3	2,3
Europe occidentale	15 548	18 265	21 433	2 717	3 168	3,3	3,3
Océanie	499	880	1 066	381	186	12,0	3,9
Autres	290	270	359	- 20	89	- 1,4	5,9
Pays en dév. à écon. marché	1 663	3 466	8 066	1 803	4 600	15,8	18,4
Afrique	170	266	509	96	243	9,4	13,9
Amérique latine	1 323	2 594	6 562	1 271	3 968	14,4	20,6
Asie	170	606	995	436	389	28,9	10,4
Pays à écon. centr. planif.	6 790	9 344	11 863	2 554	2 519	6,6	4,9
Asie	802	1 310	1 708	508	398	10,3	5,5
Europe orientale	1 688	2 034	2 655	346	621	3,8	5,5
U.R.S.S.	4 300	6 000	7 500	1 700	1 500	6,9	4,6

Une analyse détaillée de l'évolution de la pâte chimique montre que l'expansion de la capacité de pâte au sulfite s'est arrêtée et il se produit maintenant un fléchissement marginal. L'accroissement total de capacité signalé plus haut est donc entièrement imputable à la pâte au sulfate, ce qui signifie que l'expansion de cette pâte doit atteindre un taux annuel de 4,1 pour cent entre 1975 et 1980. Le fléchissement de la capacité de pâte au sulfite est particulièrement rapide dans les pays nordiques, aux Etats-Unis et au Japon, où, au total, la capacité sera réduite d'environ 1 million de tonnes au cours des dix années finissant en 1980. Le rythme des mises hors service paraît s'accélérer, étant donné qu'une capacité de 300 000 tonnes a été supprimée entre 1970 et 1975 et que l'on prévoit de réformer une capacité de 700 000 tonnes au cours des cinq prochaines années. Ces réductions de capacité sont compensées en partie par des accroissements dans certains pays d'Europe occidentale, notamment la République fédérale d'Allemagne et la Yougoslavie.

ii) Pâte d'autres fibres

Entre 1975 et 1980, la capacité de production des pâtes d'autres fibres pour papier - à l'exclusion des vieux papiers - passera de 9,3 à 11,9 millions de tonnes, soit un accroissement de 2,6 millions de tonnes équivalant à un taux annuel de 5 pour cent. Ceci représente le plus fort accroissement de capacité jamais prévu au cours d'une enquête. Il faut noter que la capacité de production des pâtes d'autres fibres a été révisée en baisse aux Etats-Unis, où on a constaté qu'elle englobait une certaine quantité de pâte destinée à des usages non papetiers.

La capacité des pays développés restera stationnaire entre 1975 et 1980, en partie à cause de la fermeture de certaines installations de défilage des pailles en Europe occidentale. L'accroissement global de capacité résultera pour les deux-tiers environ des

expansions prévues dans les pays en développement et, pour le reste, d'implantations nouvelles ou d'agrandissements dans les pays à économie centralement planifiée. Le tiers environ de l'accroissement total, soit 900 000 tonnes, sera imputable à la pâte de bagasse, principalement au Mexique et au Pérou; on prévoit l'entrée en service de fabriques de pâte de bambou représentant une capacité d'environ 400 000 tonnes: presque toutes se situeraient en Inde.

Tableau 7 - Accroissement de la capacité de production des pâtes
d'autres fibres pour papier, 1970-80

	Capacité			Augmentation totale		Augmentation annuelle moyenne	
	1970	1975	1980	1970-75	1975-80	1970-75	1975-80
	----- milliers de tonnes -----			-----		- pourcentage -	
Total mondial	7 622	9 344	11 949	1 722	2 605	4,2	5,0
Pays dév. à écon. marché	2 272	1 792	1 818	- 480	26	- 4,6	0,3
Amérique du Nord	1 000	642	684	- 358	42	- 8,5	1,3
Japon	6	4	4	- 2	-	- 7,7	-
Europe occidentale	1 224	1 083	1 021	- 141	- 62	- 2,4	- 1,2
Océanie	2	6	6	4	-	24,6	-
Autres	40	57	103	17	46	7,3	12,6
Pays en dév. à écon. marché	1 915	2 256	3 892	341	1 636	3,3	11,5
Afrique	125	175	228	50	53	7,0	5,4
Amérique latine	822	872	1 717	50	845	1,2	14,5
Asie	968	1 209	1 947	241	738	4,5	10,0
Pays à écon. centr. planif.	3 435	5 296	6 239	1 861	943	9,0	3,3
Asie	2 545	4 665	5 465	2 120	800	12,9	3,2
Europe orientale	240	231	249	- 9	18	- 0,8	1,5
U.R.S.S.	650	400	525	- 250	125	- 9,3	5,6

iii) Pâte à dissoudre

On prévoit que la croissance modérée de la capacité de production de pâte à dissoudre se poursuivra à un taux légèrement plus rapide, soit de 2,1 pour cent au lieu du pourcentage moyen de 1,7 enregistré entre 1970 et 1975. On prévoit une capacité supplémentaire d'environ 600 000 tonnes, principalement au Canada et en U.R.S.S.

b) Papier et carton

La capacité mondiale de production de papier et carton devrait passer de 175 millions de tonnes en 1975 à 206,1 millions de tonnes en 1980, soit un taux annuel d'augmentation de 3,3 pour cent. Le volume de capacité supplémentaire, 31,1 millions de tonnes, est sensiblement inférieur au chiffre prévu dans l'enquête de l'année dernière, soit 37,2 millions de tonnes, ce qui montre bien que l'industrie, après un exercice de réévaluation, diffère son expansion. Comme on l'a noté au tableau 2, le taux annuel d'accroissement passera d'une valeur élevée (4,3 pour cent) en 1975-76 à une valeur faible (2,4 pour cent) en 1979-80.

La capacité nouvelle sera implantée, pour les deux-tiers environ, dans les pays développés. Un taux d'accroissement particulièrement faible, 1,9 pour cent par an, est envisagé en Amérique du Nord. Au Japon, le volume de capacité supplémentaire prévu est inférieur de moitié à celui qui a été créé entre 1970 et 1975. Dans les pays en développement, le taux d'accroissement prévu, bien qu'un peu inférieur à celui des années récentes, correspondra à une expansion de 5,5 millions de tonnes. On prévoit qu'une capacité légèrement inférieure sera installée dans les pays à économie centralement planifiée entre 1975 et 1980.

Les tendances régionales sont illustrées dans le tableau ci-après.

Tableau 8 - Accroissement de la capacité de production totale de papier et carton, 1970-80

	Capacité			Augmentation totale		Augmentation annuelle moyenne	
	1970	1975	1980	1970-75	1975-80	1970-75	1975-80
	----- milliers de tonnes -----			-----		- pourcentage -	
Total mondial	140 844	175 002	206 062	34 158	31 060	4,4	3,3
Pays dev. à écon. marché	117 737	141 335	161 779	23 598	20 444	3,7	2,7
Amérique du Nord	63 514	71 390	78 462	7 876	7 072	2,4	1,9
Japon	12 984	19 844	23 290	6 860	3 446	8,9	3,3
Europe occidentale	38 927	47 082	56 171	8 155	9 089	3,9	3,6
Océanie	1 619	1 980	2 534	361	554	4,1	5,1
Autres	693	1 039	1 322	346	283	8,5	4,9
Pays en dev. à écon. marché	6 889	11 214	16 739	4 325	5 525	10,2	8,3
Afrique	340	665	863	325	198	14,4	5,4
Amérique latine	4 569	6 783	10 387	2 214	3 604	8,2	8,9
Asie	1 980	3 766	5 489	1 786	1 723	13,7	7,8
Pays à écon. centr. planif.	16 218	22 453	27 544	6 235	5 091	6,7	4,2
Asie	4 686	7 864	9 187	3 178	1 323	10,9	3,2
Europe orientale	4 032	5 089	6 357	1 057	1 268	4,8	4,5
U.R.S.S.	7 500	9 500	12 000	2 000	2 500	4,8	4,8

Papier journal

Au cours des cinq prochaines années, la capacité mondiale de production de papier journal devrait augmenter au taux annuel moyen de 3,4 pour cent. Au cours des cinq années précédentes, la croissance avait été moins marquée, à cause des réductions opérées dans plusieurs régions. Le taux de croissance envisagé pour l'avenir dépasserait même 3,4 pour cent, si beaucoup de pays ne tendaient pas à fabriquer du papier journal plus léger.

On avait signalé dans l'enquête de l'année dernière, l'effet exercé sur la capacité de production par le changement du grammage au Canada. Renseignements pris, il s'est révélé que beaucoup d'autres grands pays producteurs réduisaient également le grammage, ce qui fait baisser la capacité mesurée en volume, mais non pas en surface. Parmi les pays qui annoncent désormais les tonnages correspondant au grammage qu'ils comptent employer et qui est généralement inférieur à 52 grammes par m², on compte la Finlande, la Suède, la France, le Royaume-Uni, les Etats-Unis et l'Australie. En Nouvelle-Zélande et au Chili, on fabriquera surtout du papier de 48,8 grammes/m² au lieu de papier de 52 g/m², comme on le faisait naguère. Aucun changement n'est encore envisagé dans beaucoup d'autres pays, qui actuellement fabriquent surtout du papier de 52 g/m². On ne possède pas d'indications assez détaillées pour pouvoir préciser combien la demande de papier journal léger a fait "perdre" de capacité au cours d'une année donnée. Toutefois, sur l'ensemble de la période où cette tendance s'est manifestée, la perte doit avoir été considérable, atteignant peut-être 300 à 400 000 tonnes pour les huit pays mentionnés plus haut. Il faut s'attendre à l'avenir à de nouvelles "pertes", à mesure qu'un plus grand nombre de pays adopteront des papiers légers et que l'on acceptera même des poids inférieurs à 48,8 g/m².

Tableau 9 - Accroissement de la capacité de production de papier journal, 1970-80

	Capacité			Augmentation totale		Augmentation annuelle moyenne	
	1970	1975	1980	1970-75	1975-80	1970-75	1975-80
	----- milliers de tonnes -----			-----		- pourcentage -	
Total mondial	23 532	25 186	29 723	1 654	4 537	1,4	3,4
Pays dev. à écon. marché	20 593	21 735	24 829	1 142	3 094	1,1	2,7
Amérique du Nord	11 896	12 705	13 580	809	875	1,3	1,3
Japon	1 959	2 446	3 335	487	889	4,5	6,4
Europe occidentale	6 188	5 934	7 091	- 254	1 157	- 0,8	3,6
Océanie	393	413	545	20	132	1,0	5,7
Autres	157	237	278	80	41	8,6	3,2
Pays en dev. à écon. marché	612	768	1 719	156	951	4,6	17,5
Afrique	13	13	34	-	21	-	21,2
Amérique latine	328	310	930	- 18	620	- 1,1	24,6
Asie	271	445	755	174	310	10,4	11,2
Pays à écon. centr. planif.	2 327	2 683	3 175	356	492	2,9	3,4
Asie	674	830	980	156	150	4,3	3,4
Europe orientale	403	353	445	- 50	92	- 2,6	4,7
U.R.S.S.	1 250	1 500	1 750	250	250	3,7	3,1

Le tableau ci-dessus illustre la ventilation régionale de la capacité de production de papier journal. Par comparaison avec l'enquête de l'année dernière, on prévoit des accroissements plus importants dans les pays développés au cours des cinq prochaines années, alors que dans les pays en développement et dans les pays à économie centralement planifiée, il n'y a pas de modifications importantes. Néanmoins, le taux d'expansion envisagé dans les pays en développement est très rapide.

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'un peu plus de 1,2 million de tonnes devrait entrer en service entre 1975 et 1980. Le taux annuel d'accroissement, soit près de 8 pour cent, fait contraste avec le chiffre beaucoup plus faible de 3 pour cent prévu dans les pays développés. Les détails de l'évolution sont représentés dans le tableau 10 (voir page I-25).

A propos de ce tableau, il faut signaler le manque de comparabilité entre les chiffres de 1970 et les chiffres ultérieurs dans le cas des pays à économie centralement planifiée. Ceci est dû au fait que les chiffres de la Chine et de l'U.R.S.S. ont été réévalués après 1970.

Si les pays en développement mettent en place la capacité supplémentaire indiquée ci-dessus, ainsi que la capacité de production de papier journal indiquée au tableau 9, ils devraient posséder en 1980 7,4 pour cent de la capacité mondiale de papiers culturels, au lieu de 5,5 pour cent en 1975. Ceci apporterait une contribution appréciable à la satisfaction de leur demande de papiers de ce genre.

Tableau 10 - Accroissement de la capacité de production d'autres
papiers d'impression et d'écriture, 1970-80

	Capacité			Augmentation totale		Augmentation annuelle moyenne	
	1970	1975	1980	1970-75	1975-80	1970-75	1975-80
	----- milliers de tonnes -----			-----		- pourcentage -	
Total mondial	30 626	38 626	45 929	8 000	7 303	4,8	3,5
Pays dév. à écon. marché	25 493	31 667	36 828	6 174	5 161	4,4	3,1
Amérique du Nord	11 929	13 855	15 324	1 926	1 469	3,0	2,0
Japon	2 472	3 392	4 101	920	709	6,5	3,9
Europe occidentale	10 793	14 001	16 776	3 208	2 775	5,3	3,7
Océanie	205	270	380	65	110	5,7	7,1
Autres	94	149	247	55	98	9,7	10,6
Pays en dév. à écon. marché	1 783	2 710	3 943	927	1 233	8,7	7,8
Afrique	87	193	265	106	72	17,3	6,5
Amérique latine	987	1 285	1 906	298	621	5,4	8,2
Asie	709	1 232	1 772	523	540	11,7	7,5
Pays à écon. centr. planif.	3 350	4 249	5 158	899	909	4,9	4,0
Asie	995	2 082	2 492	1 087	410	15,9	3,7
Europe orientale	1 055	917	1 166	- 138	249	- 2,7	4,9
U.R.S.S.	1 300	1 250	1 500	- 50	250	- 0,8	3,7

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

Au cours des dix dernières années, le rapport entre la capacité de production de pâte et celle de papier et carton a fléchi régulièrement. Dans la dernière enquête, on avait noté les signes d'un renversement de la tendance, confirmé par les résultats de la présente enquête. On pense que le rapport se redressera légèrement en 1979 et 1980, l'expansion de la capacité de production de papier étant alors plus lente que celle de la capacité de pâte. Voici l'évolution du rapport pâte/papier et carton au cours des années passées et futures:

	<u>Pâte/papier</u> <u>en pourcentage</u>
1965	81,8
1970	80,5
1974	79,1
1975	77,8
1976	76,9 (a)
1977	76,8 (a)
1978	77,0 (a)
1979	77,6 (a)
1980	78,4 (a)

(a) Selon les prévisions de l'enquête 1975-80

Comparaison avec les enquêtes précédentes

Non seulement l'enquête actuelle pour la période 1975-80 est moins optimiste que celle établie il y a un an, mais elle prévoit des chiffres qui sont inférieurs, même aux révisions en baisse apportées à l'enquête de 1974-79 à la suite des amendements présentés par neuf pays qui avaient envisagé des plans d'expansion considérables. Ces neuf pays étaient 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 croissance envisagée entre 1975 et 1980 se chiffre seulement à 25,4 millions de tonnes pour la pâte à papier et à 31,1 millions de tonnes pour les papiers et cartons. Il semble que l'on ait remis à plus tard certaines créations de capacité peut-être à cause de la conjoncture commerciale et financière défavorable qui prévalait dans la plupart des pays en 1975. La comparaison avec les enquêtes précédentes est fournie dans le tableau ci-après et dans l'annexe 9.

<u>Période couverte par l'enquête</u>	<u>Augmentation totale pendant la période</u> <u>couverte</u>	
	<u>Pâte pour</u> <u>papier, total</u> - - - millions de tonnes - - - - -	<u>Papier et</u> <u>carton, total</u> - - - - -
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	29,9	37,2
1974-79 (a)	26,7	33,3
1975-80	25,4	31,1

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

On avait signalé que les prévisions de l'an dernier étaient particulièrement optimistes, tant pour la capacité de pâte que pour la capacité de papier et carton. Cette façon de voir, en ce qui concerne la pâte, est confirmée une fois de plus par les résultats de la présente enquête. La capacité effective de production de pâte à papier en 1975 - 126,8 millions de tonnes - est très inférieure à celle qui avait été prévue dans toutes les enquêtes, y compris l'enquête de l'année dernière (128,6 millions de tonnes). L'annexe 10 met ce point en évidence.

En examinant les chiffres, on constate que le cas est différent pour les papiers et cartons. Les résultats des enquêtes de 1969-74 et de 1970-75 étaient optimistes en ce sens qu'ils comportaient des prévisions de capacité supérieures aux résultats effectifs. Les deux enquêtes suivantes ont donné des résultats qui se sont révélés très inférieurs aux capacités effectives et les enquêtes de 1973-78 et de 1974-79 "ont corrigé" ou même "surcorrigé" cette situation. Les chiffres actuels semblent concorder avec l'évolution effective de la capacité jusqu'à ce jour, comme on peut le voir dans l'annexe 11, mais le temps pourra seul confirmer s'ils représentent correctement l'évolution future.

Les estimations les plus récentes de la capacité totale de production de pâte à papier et de papier et carton sont nettement inférieures à celles qui avaient été établies il y a un an. Si l'on compare, année par année, les prévisions de l'enquête actuelle et celles de l'enquête précédente, on constate que la réduction des chiffres relatifs à la pâte augmentent d'une année à l'autre: fléchissement de 1,4 million de tonnes en 1975, de 3,3 millions de tonnes en 1976, de 4 millions de tonnes en 1977, de 5,8 en 1978 et de 5,9 en 1979. En 1980, la capacité prévue est inférieure à celle que l'on envisageait pour 1979

dans l'enquête de l'année précédente. Pour les papiers et cartons, la situation est légèrement différente: le chiffre de 1975 est plus élevé dans l'enquête actuelle, mais les chiffres sont plus bas pour le reste de la période. La capacité prévue pour 1980 est supérieure à celle qui avait été envisagée pour 1979 dans l'enquête de l'année dernière. La situation et les perspectives du marché sont les principales raisons alléguées pour expliquer le fait que l'on a retardé le démarrage ou la planification des projets en Italie, en Argentine et en France. En Suède et en Finlande, les expansions futures sont surveillées de près par les gouvernements, principalement soucieux d'assurer l'utilisation rationnelle des disponibilités en bois.

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

	<u>Enquête</u> <u>1973-78</u>	<u>Enquête</u> <u>1974-79</u>	<u>Enquête</u> <u>1974-79</u> (a)	<u>Enquête</u> <u>1975-80</u>
	- - - - - milliers de tonnes - - - - -			
Pâte de bois	21 527	27 504	24 306	22 815
dont:				
Mécanique	4 004	5 354	4 773	4 075
Mi-chimique (b)	2 270	2 862	2 298	2 148
Chimique	15 253	19 288	17 235	16 592
Pâte d'autres fibres	2 046	2 431	2 431	2 605
Papier et carton, total	32 388	37 180	33 256	31 060
dont:				
Papier journal	4 013	4 165	4 579	4 537
Autres papiers d'impression et d'écriture	6 993	8 801	7 671	7 303
Autres papiers et cartons	21 382	24 214	21 008	19 220
- papier d'emballage	..	..	..	15 493

(a) à la suite des amendements présentés par neuf pays

(b) y compris la pâte chimico-mécanique

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

Las encuestas anuales de la FAO sobre la capacidad mundial de producción de pasta y papel se basan en los datos proporcionados por corresponsales de la mayoría de los países del mundo y en estimaciones de la Secretaría para los pocos países restantes. En general, suministran los datos las asociaciones nacionales del comercio de la pasta y el papel, sobre la base de la información facilitada por los miembros acerca de sus planes de desarrollo. En consecuencia, los resultados reflejan las intenciones de las industrias en el momento de realizarse la encuesta, que la evolución económica, financiera o del mercado pueden alterar considerablemente.

Este año se ha modificado el alcance, el contenido y la presentación de la encuesta. La encuesta actual sobre los años 1975-80 incluye datos para 94 países, dos más que en el año pasado. Después de una revisión de los datos que era útil e inteligente recolectar, se efectuaron importantes revisiones del desglose detallado de los diversos tipos de papel y cartón. En el presente año se han introducido varios epígrafes nuevos y se han revisado y ampliado las definiciones de los grupos de productos. En particular, todos los interesados han prestado especial atención a la calidad de la información proporcionada y algunos de los datos que figuraban en el estudio de Jaakko Pöyry and Co. sobre la capacidad de la maquinaria se han utilizado para complementar las cifras de otras procedencias. Por consiguiente esta encuesta contiene la información más detallada y completa que ha podido conseguirse hasta ahora sobre la capacidad mundial de producción de pasta y papel.

Debe observarse el nuevo orden en que se han presentado los datos de los países, que corresponde al del Anuario de Productos Forestales de la FAO y que, se espera, facilitará considerablemente la referencia a las fuentes estadísticas de la FAO sobre la pasta y el papel.

Las principales conclusiones de la Encuesta sobre la capacidad de producción de pasta y papel en 1975-80 son las siguientes:

- a) se prevé un aumento de la capacidad mundial de producción de pasta para papel, que pasará de 136 millones de toneladas en 1975 a 161 millones de toneladas en 1980. Este aumento de 25 millones de toneladas representa una tasa anual de crecimiento del 3,5 por ciento
- b) se prevé un aumento de la capacidad mundial de producción de papel y cartón, que pasará de 175 millones de toneladas en 1975 a 206 millones de toneladas en 1980. Este aumento de 31 millones de toneladas representa una tasa anual de crecimiento del 3,3 por ciento

- c) tanto el aumento de 25 millones de toneladas de pasta para papel como el de 31 millones de toneladas de papel y cartón son inferiores a las elevadísimas previsiones de la anterior encuesta para 1974-79, o a las modificaciones ulteriores por las cifras proporcionadas por 9 países que habían planeado una considerable expansión
- d) del aumento de 17 millones de toneladas de la capacidad de producción de pasta de madera química previsto entre 1975 y 1980, las principales aportaciones corresponderán a América del Norte (5,1 millones de toneladas) y América Latina (4 millones de toneladas). En Brasil solamente, la industria ha calculado un aumento de 3,1 millones de toneladas
- e) la capacidad de producción de pasta de madera dura decolorada al sulfato y semiquímica se espera que registre un considerable aumento, de 20,5 millones de toneladas en 1975 a 26,4 millones de toneladas en 1980. Este incremento es de 5,9 millones de toneladas, cuando en la encuesta del año pasado se preveía un aumento de 6,6 millones de toneladas
- f) Entre 1975 y 1980 se prevé un aumento sin precedentes de la capacidad de producción de las otras pastas fibrosas, con un total de 2,6 millones de toneladas (5 por ciento al año) de las cuales unas 900 000 toneladas serán de pasta de bagazo
- g) aunque los dos tercios del aumento de 31 millones de toneladas de la capacidad mundial de producción de papel y cartón corresponderá a los países desarrollados, se espera que los países en desarrollo de economía de mercado logren una rápida expansión de 5,5 millones de toneladas, aumentando así su capacidad total en un 50 por ciento aproximadamente. En los países de economía de planificación central se prevé la entrada en funcionamiento de un volumen casi igual de capacidad
- h) entre 1975 y 1980 el aumento de la capacidad de producción de papel y cartón de envolver y embalar (indicada por primera vez este año) asciende a 15,5 millones de toneladas, que es la mitad del aumento total para papel y cartón
- i) la ligera mejora de la relación futura entre la capacidad de producción de pasta y la correspondiente al papel y el cartón, señalada en la encuesta del año pasado, se ha visto confirmada en la presente. No obstante, el coeficiente sigue siendo bajo.

Tendencias de la producción y tendencias regionales

La encuesta más reciente prevé un aumento de la capacidad de producción de pasta para papel de 136,1 millones de toneladas en 1975 a 161,5 millones de toneladas en 1980; al propio tiempo, la capacidad de producción de papel y cartón aumentará de 175 a 206,1 millones de toneladas. En el Cuadro 1 que figura a continuación, se expone en forma resumida la trayectoria de los principales tipos y se compara el pronóstico actual con los niveles efectivos de la capacidad en 1965 y 1970. En los anexos 1 a 6 se ofrecen pormenores para los principales productos y regiones, entre 1975 y 1980.

Cuadro 1 - Capacidad mundial de producción de pasta, papel y cartón, 1965-80

	Capacidad total				Incremento anual medio		
	1965	1970	1975	1980	1965-70	1970-75	1975-80
	--- millones de --- toneladas métricas				--- porcentaje ---		
Total de pasta de madera para papel	80,8	105,8	126,8	149,6	5,5	3,7	3,4
Mecánica	23,1	27,2	30,0	34,1	3,3	2,0	2,6
Semiquímica (a)	6,0	8,5	10,2	12,4	7,2	3,8	3,9
Química	51,7	70,1	86,6	103,2	6,3	4,3	3,6
Otras pastas fibrosas	6,1	7,6	9,3	12,0	4,6	4,2	5,0
Pasta soluble	4,8	5,5	6,0	6,6	3,0	1,7	2,1
Total de papel y cartón	106,2	140,8	175,0	206,1	5,8	4,4	3,3
Papel de periódico	19,0	23,5	25,2	29,7	4,4	1,4	3,4
Escritura e impresión	20,5	30,6	38,6	45,9	8,3	1,4	3,5
Otras clases de papel y cartón	66,7	86,7	111,2	130,4	5,4	5,1	3,2

(a) Incluida la pasta químio-mecánica

Del cuadro precedente se infiere que en los próximos cinco años la tasa de crecimiento será algo inferior, por término medio, a la del decenio anterior. Sin embargo, se producirán variaciones importantes entre los diversos años y productos. Por lo general, la tasa de expansión de la pasta de papel se acelerará hasta 1978, para disminuir después, mientras que la del papel y el cartón perderá mucho impulso durante los cinco años. Todo ello puede verse en el Cuadro que figura a continuación.

Cuadro 2 - Tasa anual de aumento de la capacidad mundial de producción de pasta, papel y cartón, 1975-80

	Incrementos anuales				
	1975-76	1976-77	1977-78	1978-79	1979-80
	--- porcentaje ---				
Total de pasta de madera para papel	3,1	3,5	3,6	3,5	3,2
Mecánica	3,0	4,0	2,6	2,1	1,3
Semiquímica (a)	5,7	4,7	2,5	2,2	4,4
Química	2,8	3,2	4,0	4,1	3,7
Otras pastas fibrosas	3,9	5,5	6,0	4,4	5,5
Pasta soluble	2,4	2,1	3,0	1,6	1,3
Total de papel y cartón	4,3	3,8	3,4	2,7	2,4
Papel de periódico	2,4	3,3	5,3	3,0	2,9
Escritura e impresión	3,7	4,3	4,0	3,1	2,5
Otras clases de papel y cartón	4,9	3,8	2,8	2,6	2,2

(a) Incluida la pasta químio-mecánica

a) Total de pasta para papel

Entre 1975 y 1980 se prevé un aumento de 25,4 millones de toneladas de la capacidad total de producción de pasta para papel, con un incremento anual medio del 3,5 por ciento. La pasta mecánica totalizará 4,1 millones de toneladas, la pasta química 16,6 millones de toneladas y las demás pastas de fibra 2,6 millones de toneladas. Mientras que los aumentos planeados de la producción de pasta mecánica y química están muy por debajo de los niveles previstos en la encuesta del año pasado, la capacidad adicional de la producción de las demás pastas de fibra es la más alta prevista hasta ahora, debido principalmente a los aumentos proyectados de la producción de pasta de bambú en la India, y de pasta de bagazo en México y el Perú. El aumento de la capacidad de producción de pasta soluble es sólo de 0,7 millones de toneladas.

La evolución del sector de las pastas de maderas duras, principalmente la pasta decolorada al sulfato y la pasta semiquímica, es de considerable importancia. Entre 1975 y 1980 se prevén aumentos de 4,8 y 1,2 millones de toneladas respectivamente. Ello supone que la mitad por lo menos de la expansión de la producción de pastas semiquímicas y pastas decoloradas al sulfato se basa en las maderas duras. En Canadá, Argentina, Brasil, Francia y Suecia se proyectan importantes aumentos de la capacidad de producción de pastas semiquímicas de maderas duras para los próximos cinco años. En Irán, está previsto que la primera fábrica de este tipo entre en funcionamiento en 1980. En cuanto a la pasta de madera dura decolorada al sulfato, los principales aumentos se producirán en los Estados Unidos, Brasil, Finlandia y Portugal. En el Anexo 7 figuran datos detallados sobre el crecimiento anual de la capacidad.

La capacidad de producción de la pasta para la venta fluctúa considerablemente entre una y otra encuesta, y la de este año no es ninguna excepción. La información más reciente sugiere un aumento, entre 1975 y 1978, de 3,3 millones de toneladas de la pasta para papel, incluidos 2,8 millones de toneladas de pasta de madera química. Sin embargo, lo más interesante tal vez es que en 1976 y 1977 se prevé un aumento muy reducido, y que el principal incremento está previsto para 1978. América del Norte, Japón y Europa Oriental, que son los proveedores tradicionales tendrán muy poca disponibilidad adicional. La parte principal del volumen adicional previsto procederá del Brasil. En el Apéndice 8 se expone en detalle este proceso.

i) Pasta de madera

El volumen de capacidad adicional de producción de pasta de madera para papel en el mundo durante los cinco años comprendidos entre 1975-80 se prevé que sea de 22,8 millones de toneladas, o sea dos millones de toneladas más que la capacidad instalada entre 1970 y 1975. No obstante, la tasa de crecimiento disminuirá ligeramente, del 3,7 al 3,4 por ciento. Se han producido importantes cambios en la ubicación de la nueva capacidad de producción como puede verse en el Cuadro 3 (véase la página I-33).

De los 22,8 millones de toneladas de capacidad de producción de pasta de madera planeados para 1975-80, casi 14 millones de toneladas (61 por ciento) se instalarán en los países desarrollados, más de 5 millones de toneladas (23 por ciento) en los países en desarrollo y 3,6 millones de toneladas (16 por ciento) en los países de economía de planificación central. En comparación con la encuesta del año pasado, no sólo se ha producido un descenso del ritmo de expansión previsto, sino que ello es más visible en América del Norte, Europa Occidental y el Japón que en los países en desarrollo, aunque en América Latina el porcentaje ha bajado también.

Se prevé una reducción de las tasas de crecimiento en los países desarrollados, que en Japón se cifrará en menos de la mitad y en Oceanía en casi un tercio. Este último dato refleja probablemente la interrupción de la expansión de la industria en Nueva Zelanda, quizás sólo temporalmente, hasta que crezcan los árboles plantados hace poco. En los países en desarrollo, la tasa global de expansión aumentará en un 50 por ciento, mientras que la tasa anual de crecimiento durante los últimos cinco años fue del 11,6 por ciento. Aunque en términos de volumen América Latina, y principalmente Brasil, será el principal contribuyente al aumento, el desarrollo de la producción en África, aunque sobre una base relativamente pequeña, es de importancia.

Cuadro 3 - Aumentos de la capacidad total de producción de pasta de
madera para papel, 1970-80

	Capacidad			Aumento total		Aumento anual medio	
	1970	1975	1980	1970-75	1975-80	1970-75	1975-80
	- - - millares de toneladas métricas - - -			- - -		- porcentaje -	
Total mundial	105 910	126 766	149 581	20 856	22 815	3,7	3,4
Econ. mero. desarrolladas	92 778	108 529	122 466	15 751	13 937	3,2	2,4
América del Norte	56 482	63 875	70 834	7 393	6 959	2,5	2,1
Japón	9 122	11 892	13 454	2 770	1 562	5,5	2,5
Europa Occidental	25 627	30 210	35 038	4 583	4 828	3,3	3,0
Oceanía	1 077	1 831	2 274	754	443	11,2	4,4
Otros	470	721	866	251	145	8,9	3,7
Econ.merc. en desarrollo	2 639	4 576	9 899	1 937	5 323	11,6	16,7
Africa	184	292	565	108	273	9,7	14,1
América Latina	2 022	3 298	7 637	1 276	4 339	10,3	18,3
Asia	433	986	1 697	553	711	17,9	11,5
Econ.planif. central	10 493	13 661	17 216	3 168	3 555	5,4	4,7
Asia	1 437	2 075	2 681	638	606	7,6	5,3
Europa Oriental	2 606	3 136	4 085	530	949	3,8	5,4
U.R.S.S.	6 450	8 450	10 450	2 000	2 000	5,5	4,3

Pasta de madera mecánica

Entre 1975 y 1980, se prevé un aumento de la capacidad de producción de pasta mecánica de 4,1 millones de toneladas, frente a 2,8 millones de toneladas en los cinco años últimos. La tasa anual de crecimiento (2,6 por ciento) será por tanto superior a la del período anterior (1,9 por ciento).

Cuadro 4 - Aumentos de la capacidad de producción de pasta de
madera mecánica para papel, 1970-80

	Capacidad			Aumento total		Aumento anual medio	
	1970	1975	1980	1970-75	1975-80	1970-75	1975-80
	- - - millares de toneladas métricas - - -			- - -		- porcentaje -	
Total mundial	27 234	29 988	34 063	2 754	4 075	1,9	2,6
Econ.merc.desarrolladas	23 203	25 570	28 804	2 367	3 234	2,0	2,4
América del Norte	12 745	12 968	14 042	223	1 074	0,3	1,6
Japón	1 501	1 765	2 346	264	581	3,3	5,9
Europa Occidental	8 436	9 946	11 269	1 510	1 323	3,3	2,5
Oceanía	381	594	804	213	210	9,3	6,2
Otros	140	297	343	157	46	16,2	2,9
Econ.merc. en desarrollo	797	728	1 019	- 69	291	- 1,8	7,0
Africa	14	18	31	4	13	5,2	11,5
América Latina	540	388	494	- 152	106	- 6,4	4,9
Asia	243	322	494	79	172	5,8	8,9
Econ.planif. central	3 234	3 690	4 240	456	550	2,7	2,8
Asia	635	765	973	130	208	3,8	4,9
Europa Oriental	799	875	967	76	92	1,8	2,0
U.R.S.S.	1 800	2 050	2 300	250	250	2,6	2,3

Los principales aumentos de la capacidad se producirán en Europa Occidental y América del Norte, donde se prevé una expansión mucho más rápida que en los últimos tiempos.

El hecho quizá más interesante producido en los últimos años es la instalación de máquinas termomecánicas de fabricación de pasta, bien en calidad de capacidad adicional o bien como substitución de la pasta mecánica de trituradora tradicional. No se sabe exactamente las proporciones de este cambio, pero se cree que, en los próximos años, de los dos millones de toneladas de capacidad de producción de pasta mecánica en los países desarrollados un 10 por ciento podría ser termomecánica.

Pasta de madera semiquímica

Entre 1975 y 1980 se espera un aumento de la capacidad de producción de pasta quimiomecánica y semiquímica, de 10,2 a 12,3 millones de toneladas, lo que supone un incremento de 2,1 millones de toneladas, a una tasa anual del 3,2 por ciento. Estos aumentos son superiores a los registrados en los cinco últimos años. El 50 por ciento de la nueva capacidad estará basada en las maderas duras.

Cuadro 5 - Aumentos de la capacidad de producción de pasta de madera semiquímica para papel, 1970-80 (a)

	Capacidad			Aumento total		Aumento anual medio	
	1970	1975	1980	1970-75	1975-80	1970-75	1975-80
	- - - millares de toneladas métricas - - -			- - -		- porcentaje -	
Total mundial	8 578	10 202	12 350	1 624	2 148	3,5	3,9
Econ.merc.desarrolladas	7 930	9 193	10 423	1 263	1 230	3,0	2,5
América del Norte	3 856	4 271	5 042	415	771	2,1	3,4
Japón	2 194	2 412	2 477	218	65	1,9	0,5
Europa Occidental	1 643	1 999	2 336	356	337	4,0	3,2
Oceanía	197	357	404	160	47	12,6	2,5
Otros	40	154	164	114	10	31,0	1,3
Econ.merc. en desarrollo	179	382	814	203	432	16,4	16,3
Africa	-	8	25	8	17	..	25,6
América Latina	159	316	581	157	265	14,7	13,0
Asia	20	58	208	38	150	23,7	29,1
Econ.planif. central	469	627	1 113	158	486	6,0	12,2
Asia	..	..	..	..	..	..	..
Europa Oriental	119	227	463	108	236	13,8	15,3
U.R.S.S.	350	400	650	50	250	2,7	10,2

(a) Incluida la pasta de madera quimiomecánica

Dos tercios del aumento previsto se registrarán en los países desarrollados, y el resto se dividirá en partes casi iguales entre los países en desarrollo y las economías de planificación central. Para el futuro se proyecta un desarrollo más rápido en América del Norte, América Latina, Europa Oriental y la U.R.S.S., mientras que la expansión japonesa ha desaparecido casi.

Pasta de madera química para papel

La pasta de madera química representó poco menos del 65 por ciento del total de la pasta para papel en 1975, y no se espera que esta proporción cambie en los próximos cinco años. Entre 1975 y 1980 se prevé un aumento de la capacidad de 86,6 a 103,2 millones

de toneladas, lo que representa 16,6 millones de toneladas o el equivalente al 3,6 por ciento al año. Este porcentaje es considerablemente inferior al registrado entre 1965 y 1970, y algo menor que la media registrada entre 1970 y 1975.

Cuadro 6 - Aumentos de la capacidad de producción de pasta de madera química para papel, 1970-80

	Capacidad			Aumento total		Aumento anual medio	
	1970	1975	1980	1970-75	1975-80	1970-75	1975-80
	- - - millares de toneladas			- - - métricas - - -		- porcentaje -	
Total mundial	70 098	86 576	103 168	16 478	16 592	4,3	3,6
Econ.merc.desarrolladas	61 645	73 766	83 239	12 121	9 473	3,7	2,4
América del Norte	39 881	46 636	51 750	6 755	5 114	3,2	2,1
Japón	5 427	7 715	8 631	2 288	916	7,3	2,3
Europa occidental	15 548	18 265	21 433	2 717	3 168	3,3	3,3
Oceanía	499	880	1 066	381	186	12,0	3,9
Otros	290	270	359	- 20	89	- 1,4	5,9
Econ. merc. en desarrollo	1 663	3 466	8 066	1 803	4 600	15,8	18,4
Africa	170	266	509	96	243	9,4	13,9
América Latina	1 323	2 594	6 562	1 271	3 968	14,4	20,6
Asia	170	606	995	436	389	28,9	10,4
Econ.planif. central	6 790	9 344	11 863	2 554	2 519	6,6	4,9
Asia	802	1 310	1 708	508	398	10,3	5,5
Europa oriental	1 688	2 034	2 655	346	621	3,8	5,5
U.R.S.S.	4 300	6 000	7 500	1 700	1 500	6,9	4,6

Un análisis más detallado de la evolución de la pasta química revelará que la expansión de la capacidad de producción de pasta al sulfito se ha interrumpido, y que ahora se manifiesta un descenso marginal. Por consiguiente, el aumento total de la capacidad de producción de pasta química antes mencionado se basa exclusivamente en la pasta de sulfato, lo que supone una tasa anual de aumento de este tipo de pasta del 4,1 por ciento entre 1975 y 1980. El descenso de la capacidad de producción de pasta al sulfito es más rápido en los países nórdicos, Estados Unidos y Japón, donde en los diez años anteriores a 1980 se suprimirá un millón de toneladas de capacidad. Este proceso parece acelerarse, por cuanto entre 1970 y 1975 se eliminaron 300 000 toneladas, y para los próximos 5 años se proyecta la eliminación de 700 000 toneladas. Estas reducciones de la capacidad son compensadas parcialmente por los aumentos en algunos países de Europa occidental, sobre todo en la República Federal de Alemania y Yugoslavia.

ii) Otras pastas fibrosas

Entre 1975 y 1980 se prevé un aumento de la capacidad de producción de otras pastas fibrosas para papel, excluyendo el papel de desechos, de 9,3 a 11,9 millones de toneladas (2,6 millones de toneladas), lo que equivale a una tasa anual del 5 por ciento. Esto representa el máximo aumento de la capacidad registrado en todas las encuestas efectuadas hasta ahora. Debe observarse que la capacidad de producción de otras pastas de fibra en los Estados Unidos se ha reducido, por cuanto se descubrió que incluía alguna cantidad de pasta no destinada a la fabricación de papel.

En los países desarrollados la capacidad permanecerá estacionaria entre 1975 y 1980 debido, en parte, al cierre de algunas fábricas de pasta de paja en Europa occidental. Dos tercios, aproximadamente, del aumento global de la capacidad serán imputables a las expansiones registradas en los países en desarrollo, y el resto a las instalaciones nuevas o ampliadas en los países de economías de planificación central. Un tercio

aproximado del aumento total (900 000 toneladas) corresponderá a la pasta de bagazo, principalmente en México y Perú. Se prevé la entrada en rendimiento de unas 400 000 toneladas de capacidad de producción de pasta de bambú, casi todas en la India.

Cuadro 7 - Aumentos de la capacidad de producción de otras pastas
fibrosas para papel, 1970-80

	Capacidad			Aumento total		Aumento anual medio	
	1970	1975	1980	1970-75	1975-80	1970-75	1975-80
	--- millares de toneladas métricas ---			---		- porcentaje -	
Total mundial	7 622	9 344	11 949	1 722	2 605	4,2	5,0
Econ. merc.desarrolladas	2 272	1 792	1 818	- 480	26	- 4,6	0,3
América del Norte	1 000	642	684	- 358	42	- 8,5	1,3
Japón	6	4	4	- 2	-	- 7,7	-
Europa occidental	1 224	1 083	1 021	- 141	- 62	- 2,4	- 1,2
Oceanía	2	6	6	4	-	24,6	-
Otros	40	57	103	17	46	7,3	12,6
Econ.merc. en desarrollo	1 915	2 256	3 892	341	1 636	3,3	11,5
Africa	125	175	228	50	53	7,0	5,4
América Latina	822	872	1 717	50	845	1,2	14,5
Asia	968	1 209	1 947	241	738	4,5	10,0
Econ.planif. central	3 435	5 296	6 239	1 861	943	9,0	3,3
Asia	2 545	4 665	5 465	2 120	800	12,9	3,2
Europa oriental	240	231	249	- 9	18	- 0,8	1,5
U.R.S.S.	650	400	525	- 250	125	- 9,3	5,6

iii) Pasta soluble

La capacidad de producción de pasta soluble mantendrá su modesto ritmo de expansión, acelerándose algo la tasa (2,1 por ciento, frente a la media del 1,7 por ciento entre 1970 y 1975). Se proyecta un aumento aproximado de la capacidad de 600 000 toneladas, principalmente en Canadá y la U.R.S.S.

b) Papel y cartón

Se prevé un aumento de la capacidad total de producción de papel y cartón en el mundo, de 175 millones de toneladas en 1975 a 206,1 millones de toneladas en 1980, a la tasa anual del 3,3 por ciento. El volumen de capacidad adicional, 31,1 millones de toneladas, es muy inferior al previsto en la encuesta del año pasado (37,2 millones de toneladas), lo que refleja de modo manifiesto la reevaluación y el aplazamiento de la expansión de la industria. Como se indicaba en el Cuadro 2, la tasa anual de crecimiento disminuirá, pasando de un máximo de 4,3 por ciento en 1975-76 a un mínimo del 2,4 por ciento en 1979-80.

Unos dos tercios de la nueva capacidad estarán situados en los países desarrollados, con una tasa particularmente lenta de aumento, 1,9 por ciento al año, prevista en América del Norte. En el Japón, sólo la mitad de este volumen se agregará a la capacidad que entró en rendimiento entre 1970 y 1975. En cambio, la tasa futura de aumento de los países en desarrollo, aunque algo inferior a la de los últimos años, representará una expansión de 5,5 millones de toneladas. Las instalaciones previstas en los países de economía de planificación central entre 1975 y 1980 no serán tantas.

En el Cuadro que figura a continuación se exponen las tendencias regionales.

Cuadro 8 - Aumentos de la capacidad de producción total de papel y cartón, 1970-80

	Capacidad			Aumento total		Aumento anual medio	
	1970	1975	1980	1970-75	1975-80	1970-75	1975-80
	- - - millares de toneladas			métricas - - -		- porcentaje -	
Total mundial	140 844	175 002	206 062	34 158	31 060	4,4	3,3
Econ.merc.desarrolladas	117 737	141 335	161 779	23 598	20 444	3,7	2,7
América del Norte	63 514	71 390	78 462	7 876	7 072	2,4	1,9
Japón	12 984	19 844	23 290	6 860	3 446	8,9	3,3
Europa occidental	38 927	47 082	56 171	8 155	9 089	3,9	3,6
Oceanía	1 619	1 980	2 534	361	554	4,1	5,1
Otros	693	1 039	1 322	346	283	8,5	4,9
Econ.merc. en desarrollo	6 889	11 214	16,739	4 325	5 525	10,2	8,3
Africa	340	665	863	325	198	14,4	5,4
América Latina	4 569	6 783	10 387	2 214	3 604	8,2	8,9
Asia	1 980	3 766	5 489	1 786	1 723	13,7	7,8
Econ.planif. central	16 218	22 453	27 544	6 235	5 091	6,7	4,2
Asia	4 686	7 864	9 187	3 178	1 323	10,9	3,2
Europa oriental	4 032	5 089	6 357	1 057	1 268	4,8	4,5
U.R.S.S.	7 500	9 500	12 000	2 000	2 500	4,8	4,8

Papel de periódico

Durante los cinco años próximos, se prevé un aumento de la capacidad mundial de producción de papel de periódico, a una tasa media anual del 3,4 por ciento. En el quinquenio anterior, el crecimiento no fue tan acentuado, debido a las reducciones experimentadas en varias regiones. La tasa futura de crecimiento podría haber excedido incluso del 3,4 por ciento, de no ser por la tendencia a fabricar papel de periódico de menos peso en muchos países.

En la encuesta del año anterior se señalaba el efecto en la capacidad de un cambio de gramaje en el Canadá. Las investigaciones subsiguientes han revelado que otros muchos países productores de importancia han reducido de modo análogo el gramaje, con el resultado de que se ha reducido el volumen de la capacidad pero no la medida de superficie. Entre los países que comunican su capacidad de producción de papel de periódico en toneladas correspondientes al gramaje efectivo previsto y que es normalmente inferior a 52 g/m² están Finlandia, Suecia, Francia, el Reino Unido, los Estados Unidos y Australia. En Nueva Zelanda y Chile la mayoría de la producción será de 48,8 g/m², en vez de 52 g/m² como hasta ahora. Para otros muchos países no se ha previsto ningún cambio, y el papel de periódico que se fabrica actualmente es sobre todo de 52 g/m². No se dispone de los detalles necesarios para efectuar una evaluación precisa de la capacidad "perdida" en cada año por causa de la demanda de papel de periódico más ligero. Sin embargo, en todos los años en que se ha evidenciado esta tendencia, las pérdidas deben haber sido considerables, posiblemente de 300-400 000 toneladas para los países mencionados. Las "pérdidas" podrían continuar en el futuro, por cuanto más países aceptan el papel de periódico más ligero y se aceptan pesos incluso inferiores a 48,8 g/m².

Cuadro 9 - Aumentos de la capacidad de producción de papel
de periódico, 1970-80

	Capacidad			Aumento total		Aumento anual medio	
	1970	1975	1980	1970-75	1975-80	1970-75	1975-80
	--- millares de toneladas			métricas ---		- porcentaje -	
Total mundial	23 532	25 186	29 723	1 654	4 537	1,4	3,4
Econ.merc.desarrolladas	20 593	21 735	24 829	1 142	3 094	1,1	2,7
América del Norte	11 896	12 705	13 580	809	875	1,3	1,3
Japón	1 959	2 446	3 335	487	889	4,5	6,4
Europa Occidental	6 188	5 934	7 091	- 254	1 157	- 0,8	3,6
Oceanía	393	413	545	20	132	1,0	5,7
Otros	157	237	278	80	41	8,6	3,2
Econ.merc. en desarrollo	612	768	1 719	156	951	4,6	17,5
Africa	13	13	34	-	21	-	21,2
América Latina	328	310	930	- 18	620	- 1,1	24,6
Asia	271	445	755	174	310	10,4	11,2
Econ.planif. central	2 327	2 683	3 175	356	492	2,9	3,4
Asia	674	830	980	156	150	4,3	3,4
Europa oriental	403	353	445	- 50	92	- 2,6	4,7
U.R.S.S.	1 250	1 500	1 750	250	250	3,7	3,1

En el cuadro anterior puede verse la división regional de la capacidad de producción de papel de periódico. En comparación con la encuesta del año pasado, se prevé un aumento de la capacidad operacional en los países desarrollados para los próximos cinco años, mientras que en los países en desarrollo y en los países de economía de planificación central no se ha producido ningún cambio importante. No obstante, la tasa de expansión prevista en los países en desarrollo es muy rápida.

Otras clases de papel de escritura e impresión

El crecimiento futuro de la capacidad de producción de las otras clases de papel de escritura e impresión será particularmente acentuado en los países en desarrollo, donde se espera que entre 1975 a 1980 se produzca un aumento de poco más de 1,2 millones de toneladas de la capacidad. La tasa anual de aumento de casi el 8% contrasta con la cifra muy inferior del 3% para los países desarrollados. Véase al respecto el Cuadro 10 (página I-39).

Debe observarse la no comparabilidad de las cifras de 1970 y las cifras subsiguientes para las economías de planificación central. Esto se debe a la reevaluación de las cifras para China y la U.R.S.S., realizada después de 1970.

Si se instala la capacidad adicional prevista en los países en desarrollo, y lo propio ocurre con el volumen de papel de periódico indicado en el Cuadro 9, para 1980 los países en desarrollo deberían contar con el 7,4 por ciento de la capacidad mundial de producción de esta clase de papeles, mientras que en 1975 el porcentaje correspondiente era del 5,5 por ciento. Ello contribuirá considerablemente a satisfacer su demanda de este tipo de papel.

Cuadro 10 - Aumentos de la capacidad de producción de otros
papeles de escritura e impresión, 1970-80

	Capacidad			Aumento total		Aumento anual medio	
	1970	1975	1980	1970-75	1975-80	1970-75	1975-80
	- - - millares de toneladas			métricas - - -		- porcentaje -	
Total mundial	30 626	38 626	45 929	8 000	7 303	4,8	3,5
Econ.merc.desarrolladas	25 493	31 667	36 828	6 174	5 161	4,4	3,1
América del Norte	11 929	13 855	15 324	1 926	1 469	3,0	2,0
Japón	2 472	3 392	4 101	920	709	6,5	3,9
Europa Occidental	10 793	14 001	16 776	3 208	2 775	5,3	3,7
Oceanía	205	270	380	65	110	5,7	7,1
Otros	94	149	247	55	98	9,7	10,6
Econ.merc. en desarrollo	1 783	2 710	3 943	927	1 233	8,7	7,8
África	87	193	265	106	72	17,3	6,5
América Latina	987	1 285	1 906	298	621	5,4	8,2
Asia	709	1 232	1 772	523	540	11,7	7,5
Econ. planif. central	3 350	4 249	5 158	899	909	4,9	4,0
Asia	995	2 082	2 492	1 087	410	15,9	3,7
Europa Oriental	1 055	917	1 166	- 138	249	- 2,7	4,9
U.R.S.S.	1 300	1 250	1 500	- 50	250	- 0,8	3,7

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

En el último decenio la proporción entre la capacidad de producción de la pasta y la capacidad de producción de papel y cartón ha ido reduciéndose paulatinamente. En la encuesta del año pasado se observaban señales de una inversión de esta tendencia, que confirman ahora los resultados de la encuesta actual. Para 1979-1980 se prevé una ligera fluctuación al alza de la proporción, cuando se reduzca el ritmo de expansión de la capacidad de fabricación de papel en relación con el de la pasta. La proporción pasada y futura entre la pasta y el papel y el cartón es la siguiente:

	<u>Proporción porcentual entre la pasta/papel</u>
1965	81,8
1970	80,5
1974	79,1
1975	77,8
1976	76,9 (a)
1977	76,8 (a)
1978	77,0 (a)
1979	77,6 (a)
1980	78,4 (a)

(a) Según pronóstico de la encuesta 1975-80

Comparación con anteriores encuestas

La actual encuesta para 1975-80 no sólo es menos optimista que la del año anterior, sino que además sus cifras son inferiores a las de dicha encuesta a raíz de algunas reducciones efectuadas en función de las modificaciones de nueve países, cuyos planes de expansión eran considerables. Esos nueve países son Canadá, Estados Unidos, Brasil, Finlandia, Francia, República Federal de Alemania, Suecia, Reino Unido y Japón.

El crecimiento previsto entre 1975 y 1980 es sólo de 25,4 millones de toneladas de pasta de papel y 31,1 millones de toneladas de papel y cartón. Parece que se han aplazado hasta cierto punto los planes para poner en producción la nueva capacidad, debido posiblemente a la mala situación financiera y comercial prevaleciente en la mayoría de los países en 1975. La comparación con anteriores encuestas se expone en el siguiente cuadro y en el Apéndice 9.

<u>Período comprendido por la encuesta</u>	<u>Aumento total en el período</u>	
	<u>Total de pasta para papel</u>	<u>Total de papel y cartón</u>
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	29,9	37,2
1974-79 (a)	26,7	33,3
1975-80	25,4	31,1

(a) Después de las modificaciones introducidas por los nueve países mencionados

Se ha hecho referencia al considerable optimismo de los pronósticos del año pasado sobre la capacidad, tanto para la pasta como para el papel y el cartón. Con respecto a la pasta, esta opinión se ha visto confirmada una vez más por los resultados de la encuesta actual. La capacidad efectiva de producción de pasta de madera para papel en 1975 (126,8 millones de toneladas) es muy inferior a la prevista en las otras encuestas, incluida la del año pasado (128,6 millones de toneladas). El Anexo 10 ilustra este punto.

Un examen de las cifras para el papel y el cartón ofrece un panorama distinto. Los resultados de las encuestas de 1969-74 y 1970-75 eran optimistas, por cuanto exponían pronósticos de la capacidad superiores a los logros reales. Las dos encuestas siguientes produjeron resultados muy inferiores a la capacidad real y las encuestas de 1973-78 y 1974-79 "corrigieron", incluso en exceso, esta situación. Los resultados actuales parecen estar en consonancia con la evolución precedente de la capacidad, como puede verse en el Apéndice 11, pero sólo el tiempo dirá si dan una fiel imagen del futuro.

Las estimaciones más recientes de los totales de la pasta para papel y el papel y el cartón son muy inferiores a las preparadas hace un año. De año en año, en comparación con la encuesta del año pasado, las cifras de la pasta van reduciéndose con descensos de 1,4 millones de toneladas en 1975, 3,3 millones de toneladas en 1976, 4 millones en 1977, 5,8 millones en 1978 y 5,9 millones en 1979. En 1980, la capacidad prevista es inferior a lo previsto para 1979, según la encuesta del año pasado. La situación en lo referente

al papel y el cartón es algo distinta, con una cifra mayor para 1975 en la encuesta actual, pero con reducciones para el resto del período. La capacidad prevista para 1980 es superior al nivel de 1979 indicado en la encuesta del año pasado. La situación actual y futura del mercado es la principal razón de la demora del inicio o la planificación de los proyectos en Italia, Argentina y Francia. Las expansiones futuras en Suecia y Finlandia están controladas rigurosamente por los gobiernos de esos países, con el objeto principal de asegurar la utilización económica de los suministros de madera disponibles.

Para las principales calidades de pasta, papel y cartón, la capacidad adicional global prevista para los períodos comprendidos en las tres encuestas últimas es la siguiente:

	<u>Encuesta de</u> <u>1973-78</u>	<u>Encuesta de</u> <u>1974-79</u>	<u>Encuesta de</u> <u>1974-79 (a)</u>	<u>Encuesta de</u> <u>1975-80</u>
	----- millares de toneladas métricas -----			
Total de pasta de madera	21,527	27 504	24 306	22 815
del cual				
Mecánica	4 004	5 354	4 773	4 075
Semiquímica (b)	2 270	2 862	2 298	2 148
Química	15 253	19 288	17 235	16 592
Otra pasta fibrosa	2 046	2 431	2 431	2 605
Total de papel y cartón	32 388	37 180	33 256	31 060
del cual				
Papel de periódico	4 013	4 165	4 579	4 537
Otro papel de escritura e impresión	6 993	8 801	7 671	7 303
Otras clases de papel y cartón	21 382	24 214	21 008	19 220
- papel de envolver y de embalar	..	..	..	15 493

(a) Después de las modificaciones introducidas por los nueve países

(b) Incluida la pasta químio-mecánica

A N N E X E S

CAPACITY FOR 1975		REGION	CODE	PAPER PULP						DISSOLVING PULP	PAPER AND PAPERBOARD			
				TOTAL	WOOD PULP			OTHER FIBRE PULP	TOTAL		NEWSPRINT	PRINTING WRITING	TOTAL	WRAPPING
1 + 2	1	1.1	1.2	1.3	2	3	4	4.1	4.2	TOTAL	4.3	4.32		
1 000 metric tons														
WORLD TOTAL:	136,110	126,766	29,988	10,202	86,576	9,344	5,979	175,002	25,186	38,626	111,190	86,745		
of which:														
DEV'ED MARKET ECONOMIES	110,321	108,529	25,570	9,193	73,766	1,792	4,186	141,335	21,735	31,667	87,933	70,538		
of which:														
NORTHERN AMERICA	64,517	63,875	12,968	4,271	46,636	642	2,015	71,390	12,705	13,855	44,830	36,006		
JAPAN	11,896	11,892	1,765	2,412	7,715	4	479	19,844	2,446	3,392	14,006	10,860		
WESTERN EUROPE	31,293	30,210	9,946	1,999	18,265	1,083	1,412	47,082	5,934	14,001	27,147	21,946		
- E. E. C.	6,989	6,250	2,844	819	2,587	736	422	26,704	2,029	8,707	15,968	12,819		
- NORDIC COUNTRIES	20,290	20,290	6,265	980	13,045	-	685	13,915	3,290	3,460	7,165	5,790		
- REST OF W.E.	4,017	3,670	837	200	2,633	347	305	6,463	615	1,834	4,014	3,337		
OCEANIA	1,837	1,831	594	357	880	6	-	1,980	413	270	1,297	1,156		
OTHERS	778	721	297	154	270	57	280	1,039	237	149	653	570		
DEV'ING MARKET ECONOMIES	6,832	4,576	728	382	3,466	2,256	309	11,214	768	2,710	7,736	6,903		
of which:														
AFRICA	467	292	18	8	266	175	-	665	13	193	459	453		
LATIN AMERICA	4,170	3,298	388	316	2,594	872	169	6,783	310	1,285	5,188	4,469		
ASIA	2,195	986	322	58	606	1,209	140	3,766	445	1,232	2,089	1,981		
CENT. PLANNED ECONOMIES	18,957	13,661	3,690	627	9,344	5,296	1,484	22,453	2,683	4,249	15,521	9,304		
of which:														
ASIA	6,740	2,075	765	..	1,310	4,665	40	7,864	830	2,082	4,952	..		
EASTERN EUROPE	3,367	3,136	875	227	2,034	231	419	5,089	353	917	3,819	3,304		
U.S.S.R.	8,850	8,450	2,050	400	6,000	400	1,025	9,500	1,500	1,250	6,750	6,000		

1 000 metric tons

CAPACITY FOR 1976		REGION	CODE	PAPER PULP						DISSOLVING PULP	PAPER AND PAPERBOARD			
				TOTAL	WOOD PULP			OTHER FIBRE PULP	TOTAL		NEWSPRINT	PRINTING WRITING	TOTAL	WRAPPING
					TOTAL	MECH.	SEMI-CHEM.							
		1 + 2	1	1.1	1.2	1.3	2	3	4	4.1	4.2	4.3	4.32	
000 metric tons														
WORLD TOTAL:		140,410	130,702	30,876	10,785	89,041	9,708	6,125	182,530	25,795	40,067	116,668	91,105	
of which:														
DEV'ED MARKET ECONOMIES		113,042	111,237	26,304	9,605	75,328	1,805	4,257	146,603	22,135	32,739	91,729	73,760	
of which:														
NORTHERN AMERICA		66,173	65,517	13,279	4,528	47,710	656	2,079	73,841	12,923	14,290	46,628	37,595	
JAPAN		12,159	12,155	1,874	2,412	7,869	4	479	20,460	2,470	3,523	14,467	11,231	
WESTERN EUROPE		31,892	30,835	10,130	2,112	18,593	1,057	1,389	48,958	5,968	14,469	28,521	23,087	
- E. E. C.		7,185	6,479	2,917	887	2,675	706	424	27,921	2,010	9,049	16,862	13,552	
- NORDIC COUNTRIES		20,475	20,475	6,315	995	13,165	-	660	14,200	3,240	3,540	7,420	6,025	
- REST OF W.E.		4,232	3,881	898	230	2,753	351	305	6,837	718	1,880	4,239	3,510	
OCEANIA		2,015	2,009	724	399	886	6	-	2,225	529	280	1,416	1,248	
OTHERS		803	721	297	154	270	82	310	1,119	245	177	697	599	
DEV'ING MARKET ECONOMIES		7,427	5,012	737	417	3,858	2,415	309	12,272	839	2,881	8,552	7,417	
of which:														
AFRICA		500	311	18	9	284	189	-	750	18	216	516	509	
LATIN AMERICA		4,662	3,704	394	347	2,963	958	169	7,551	354	1,368	5,829	4,815	
ASIA		2,265	997	325	61	611	1,268	140	3,971	467	1,297	2,207	2,093	
CENT. PLANNED ECONOMIES		19,941	14,453	3,835	763	9,855	5,488	1,559	23,655	2,821	4,447	16,387	9,928	
of which:														
ASIA		7,034	2,209	809	-	1,400	4,825	40	8,138	860	2,880	5,108	-	
EASTERN EUROPE		3,632	3,394	926	313	2,155	238	419	5,517	411	977	4,129	3,543	
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	

CAPACITY FOR 1977		PAPER PULP										PAPER AND PAPERBOARD			
REGION	CODE	TOTAL 1 + 2	WOOD PULP				OTHER FIBRE PULP	DISSOLVING PULP	TOTAL	NEWSPRINT	PRINTING WRITING	TOTAL	WRAPPING		
			TOTAL 1	MECH. 1.1	SEMI-CHEM. 1.2	CHEMICAL 1.3									
000 metric tons															
WORLD TOTAL:		145,477	135,238	32,101	11,287	91,850	10,239	6,252	189,483	26,659	41,772	121,052	94,449		
of which:															
DEV'ED MARKET ECONOMIES		116,307	114,510	27,392	9,946	77,172	1,797	4,309	151,634	22,802	33,987	94,845	76,188		
of which:															
NORTHERN AMERICA		67,652	66,977	13,611	4,774	48,592	675	2,134	75,252	13,062	14,628	47,562	38,339		
JAPAN		12,480	12,476	1,937	2,412	8,127	4	479	21,385	2,637	3,640	15,108	11,796		
WESTERN EUROPE		33,181	32,170	10,699	2,198	19,273	1,011	1,386	51,436	6,258	15,175	30,003	24,172		
- E. E. C.		7,491	6,838	3,161	898	2,779	653	426	29,353	2,177	9,398	17,778	14,233		
- NORDIC COUNTRIES		21,215	21,215	6,620	1,060	13,535	-	655	14,915	3,330	3,770	7,815	6,320		
- REST OF W. E.		4,475	4,117	918	240	2,959	358	305	7,168	751	2,007	4,410	3,619		
OCEANIA		2,103	2,097	802	404	891	6	-	2,303	545	310	1,448	1,266		
OTHERS		891	790	343	158	289	101	310	1,258	300	234	724	615		
DEV'ING MARKET ECONOMIES		8,378	5,615	764	472	4,379	2,763	309	13,228	940	3,177	9,111	7,836		
of which:															
AFRICA		551	348	18	9	321	203	-	774	19	221	534	526		
LATIN AMERICA		5,408	4,230	397	400	3,433	1,178	169	8,216	428	1,566	6,222	5,072		
ASIA		2,419	1,037	349	63	625	1,382	140	4,238	493	1,390	2,355	2,238		
CENT. PLANNED ECONOMIES		20,792	15,113	3,945	869	10,299	5,679	1,634	24,621	2,917	4,608	17,096	10,425		
of which:															
ASIA		7,308	2,323	850	..	1,473	4,985	40	8,392	890	2,243	5,259	..		
EASTERN EUROPE		3,784	3,540	945	369	2,226	244	419	5,729	427	1,015	4,287	3,655		
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		PAPER PULP										PAPER AND PAPERBOARD			
REGION	CODE	TOTAL 1 + 2	WOOD PULP				OTHER FIBRE PULP	DISSOLVING PULP	TOTAL	NEWSPRINT	PRINTING WRITING	TOTAL	WRAPPING		
			TOTAL 1	MECH. 1.1	SEMI-CHEM. 1.2	CHEMICAL 1.3									
1 000 metric tons															
WORLD TOTAL:		150,895	140,044	32,936	11,571	95,537	10,851	6,439	195,881	28,059	43,434	124,388	96,952		
of which:															
DEV'ED MARKET ECONOMIES		119,150	117,334	28,093	10,087	79,154	1,816	4,360	156,145	23,970	35,286	96,889	77,689		
of which:															
NORTHERN AMERICA		68,693	68,009	13,792	4,831	49,386	684	2,175	76,356	13,199	14,951	48,206	38,864		
JAPAN		13,085	13,081	2,179	2,449	8,453	4	479	22,403	3,091	3,862	15,450	12,043		
WESTERN EUROPE		34,332	33,311	10,977	2,239	20,095	1,021	1,396	53,705	6,858	15,869	30,978	24,824		
- E. E. C.		7,786	7,130	3,267	959	2,904	656	426	30,695	2,363	9,793	18,539	14,737		
- NORDIC COUNTRIES		21,735	21,735	6,755	1,035	13,945	-	665	15,570	3,730	3,930	7,910	6,395		
- REST OF W. E.		4,811	4,446	955	245	3,246	365	305	7,440	765	2,146	4,529	3,692		
OCEANIA		2,103	2,097	802	404	891	6	-	2,393	545	360	1,488	1,301		
OTHERS		937	836	343	164	329	101	310	1,288	277	244	767	657		
DEV'ING MARKET ECONOMIES		10,100	6,933	798	550	5,585	3,167	329	14,141	1,074	3,388	9,679	8,314		
of which:															
AFRICA		573	362	18	9	335	211	-	788	20	223	545	537		
LATIN AMERICA		6,810	5,395	402	478	4,515	1,415	169	8,785	532	1,661	6,592	5,353		
ASIA		2,717	1,176	378	63	735	1,541	160	4,568	522	1,504	2,542	2,424		
CENT. PLANNED ECONOMIES		21,645	15,777	4,045	934	10,798	5,868	1,750	25,595	3,015	4,760	17,820	10,949		
of which:															
ASIA		7,582	2,437	891	..	1,546	5,145	40	8,646	920	2,316	5,410	..		
EASTERN EUROPE		3,938	3,690	954	384	2,352	248	460	5,949	445	1,044	4,460	3,794		
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		

CAPACITY FOR 1979		PAPER PULP															PAPER AND PAPERBOARD			
REGION	CODE	TOTAL 1 + 2	WOOD PULP			OTHER FIBRE PULP 2	DISSOLVING PULP 3	TOTAL 4	NEWSPRINT 4.1	PRINTING WRITING 4.2	TOTAL 4.3	WRAPPING 4.32								
			TOTAL 1	MECH. 1.1	SEMI-CHEM. 1.2								CHEMICAL 1.3							
1 000 metric tons																				
WORLD TOTAL:		156,242	144,916	33,636	11,824	99,456	11,326	6,541	201,267	28,889	44,795	127,583	99,749							
of which:																				
DEVELOPED MARKET ECONOMIES		121,811	119,993	28,544	10,168	81,281	1,818	4,384	159,278	24,416	36,230	98,632	79,229							
of which:																				
NORTHERN AMERICA		70,139	69,455	13,918	4,861	50,676	684	2,194	77,495	13,435	15,180	48,880	39,453							
JAPAN		13,256	13,252	2,331	2,453	8,468	4	479	22,946	3,277	4,056	15,613	12,172							
WESTERN EUROPE		35,362	34,341	11,148	2,286	20,907	1,021	1,401	55,029	6,881	16,379	31,769	25,535							
- E.E.C.		7,949	7,293	3,323	961	3,009	656	426	31,102	2,361	10,003	18,738	14,891							
- NORDIC COUNTRIES		22,210	22,210	6,830	1,080	14,300	-	670	16,315	3,755	4,155	8,405	6,885							
- REST OF W.E.		5,203	4,838	995	245	3,598	365	305	7,612	765	2,221	4,626	3,759							
OCEANIA		2,105	2,099	804	404	891	6	-	2,491	545	370	1,576	1,386							
OTHERS		949	846	343	164	339	103	310	1,317	278	245	794	683							
DEVELOPING MARKET ECONOMIES		11,865	8,408	950	627	6,831	3,457	329	15,442	1,378	3,632	10,432	9,049							
of which:																				
AFRICA		642	428	28	9	391	214	-	813	31	234	548	540							
LATIN AMERICA		8,109	6,593	484	516	5,593	1,516	169	9,619	699	1,767	7,153	5,898							
ASIA		3,114	1,387	438	102	847	1,727	160	5,010	648	1,631	2,731	2,611							
CENT. PLANNED ECONOMIES		22,566	16,515	4,142	1,029	11,344	6,051	1,828	26,547	3,095	4,933	18,519	11,471							
of which:																				
ASIA		7,856	2,551	932	..	1,619	5,305	40	8,916	950	2,404	5,562	..							
EASTERN EUROPE		4,160	3,914	960	429	2,525	246	463	6,131	445	1,079	4,607	3,931							
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				
REGION	CODE	TOTAL		WOOD PULP				OTHER FIBRE PULP	DISSOLVING PULP	TOTAL	NEWSPRINT	PRINTING WRITING	TOTAL	WRAPPING		
		1 + 2	1	MECH.	SEMI-CHEM.	CHEMICAL	2								3	4
1 000 metric tons																
WORLD TOTAL:		161,530	149,581	34,063	12,350	103,168	11,949	6,629	206,062	29,723	45,929	130,410	102,238			
of which:																
DEV'ED MARKET ECONOMIES		124,284	122,466	28,804	10,423	83,239	1,818	4,396	161,779	24,829	36,828	100,122	80,571			
of which:																
NORTHERN AMERICA		71,518	70,834	14,042	5,042	51,750	684	2,197	78,462	13,580	15,324	49,558	40,131			
JAPAN		13,458	13,454	2,346	2,477	8,631	4	479	23,290	3,335	4,101	15,854	12,378			
WESTERN EUROPE		36,059	35,038	11,269	2,336	21,433	1,021	1,410	56,171	7,091	16,776	32,304	25,961			
- E.E.C.		8,094	7,438	3,365	986	3,087	656	430	31,358	2,361	10,135	18,862	14,980			
- NORDIC COUNTRIES		22,650	22,650	6,890	1,105	14,655	-	675	17,055	3,965	4,335	8,755	7,175			
- REST OF W.E.		5,315	4,950	1,014	245	3,691	365	305	7,758	765	2,306	4,687	3,806			
OCEANIA		2,280	2,274	804	404	1,066	6	-	2,534	545	380	1,609	1,416			
OTHERS		969	866	343	164	359	103	310	1,322	278	247	797	685			
DEV'ING MARKET ECONOMIES		13,791	9,899	1,019	814	8,066	3,892	329	16,739	1,719	3,943	11,077	9,670			
of which:																
AFRICA		793	565	31	25	509	228	-	863	34	265	564	556			
LATIN AMERICA		9,354	7,637	494	581	6,562	1,717	169	10,387	930	1,906	7,551	6,278			
ASIA		3,644	1,697	494	208	995	1,947	160	5,489	755	1,772	2,962	2,836			
CENT. PLANNED ECONOMIES		23,455	17,216	4,240	1,113	11,863	6,239	1,904	27,544	3,175	5,158	19,211	11,997			
of which:																
ASIA		8,146	2,681	973	..	1,708	5,465	40	9,187	980	2,492	5,715	..			
EASTERN EUROPE		4,334	4,085	967	463	2,655	249	464	6,357	445	1,166	4,746	4,072			
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			

1975-80

	Chemical-groundwood and Semi-chemical Hardwood Pulp						Bleached and Semi-bleached Sulphate and Soda Hardwood Pulp					
	1975	1976	1977	1978	1979	1980	1975	1976	1977	1978	1979	1980
	'000 metric tons air dry weight											
Angola	-	-	-	-	-	-	37	37	37	37	37	37
Madagascar	1	1	1	1	1	1	-	-	-	-	-	-
Morocco	-	-	-	-	-	-	55	55	87	96	100	100
South Africa	154	154	158	164	164	164	39	39	39	59	60	62
Canada	397	430	466	483	483	483	871	875	896	960	960	960
Mexico	-	-	-	-	-	-	3	25	25	25	25	25
U.S.A.	..	..	..	..	..	..	6,524	6,705	6,906	7,073	7,426	7,220
Argentina	112	117	145	190	220	225	68	68	75	80	100	110
Brazil	117	119	125	148	155	215	601	721	996	1,643	2,224	2,780
Chile	-	-	-	-	-	-	20	20	20	20	20	20
Colombia	33	37	37	37	37	37	-	-	-	-	-	-
Peru	-	-	-	-	-	-	5	6	6	7	7	7
India	20	23	25	25	64	75	130	133	140	159	179	189
Iran	-	-	-	-	-	95	-	-	-	-	-	-
Japan	2,267	2,267	2,267	2,302	2,306	2,328	3,629	3,777	3,804	3,971	3,984	4,064
Philippines	-	-	-	-	-	-	75	75	75	75	75	145
Turkey	28	28	28	28	28	28	70	70	70	70	70	70
Belgium	-	-	-	-	-	-	18	185	190	190	200	200
Bulgaria	47	54	54	44	57	68	6	6	6	17	17	17
Czechoslovakia	42	63	63	63	63	63	-	-	-	-	-	-
Denmark	125	125	125	125	125	125	-	-	-	-	-	-
Finland	435	435	435	390	390	390	700	760	900	1,030	1,070	1,100
France	200	250	300	350	350	375	400	400	400	425	450	475
Germany, Fed.Rep.	68	68	68	68	68	68	-	-	-	-	-	-
Hungary	33	68	78	83	80	80	-	-	-	-	-	-
Netherlands	45	45	45	45	45	45	-	-	-	-	-	-
Norway	85	85	90	90	95	95	175	140	140	140	70	-
Poland	15	15	61	79	79	102	..	..	..	..	..	..
Portugal	-	-	-	-	-	-	290	303	410	523	525	525
Romania	44	44	44	46	81	81	109	113	117	125	118	118
Spain	-	-	-	-	-	-	401	415	422	422	557	607
Sweden	410	440	500	515	555	580	840	865	870	900	905	905
United Kingdom	101	109	110	111	113	113	-	-	-	-	-	-
Yugoslavia	40	70	80	85	85	85	90	90	90	90	140	155
Australia	234	274	274	274	274	274	102	108	113	118	118	278
New Zealand	54	54	54	54	54	54	17	17	17	17	17	17
TOTAL OF ABOVE COUNTRIES	5,107	5,375	5,633	5,800	5,972	6,249	15,437	16,008	16,851	18,272	19,454	20,186

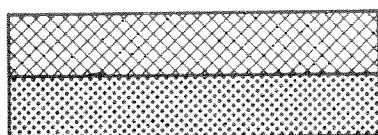
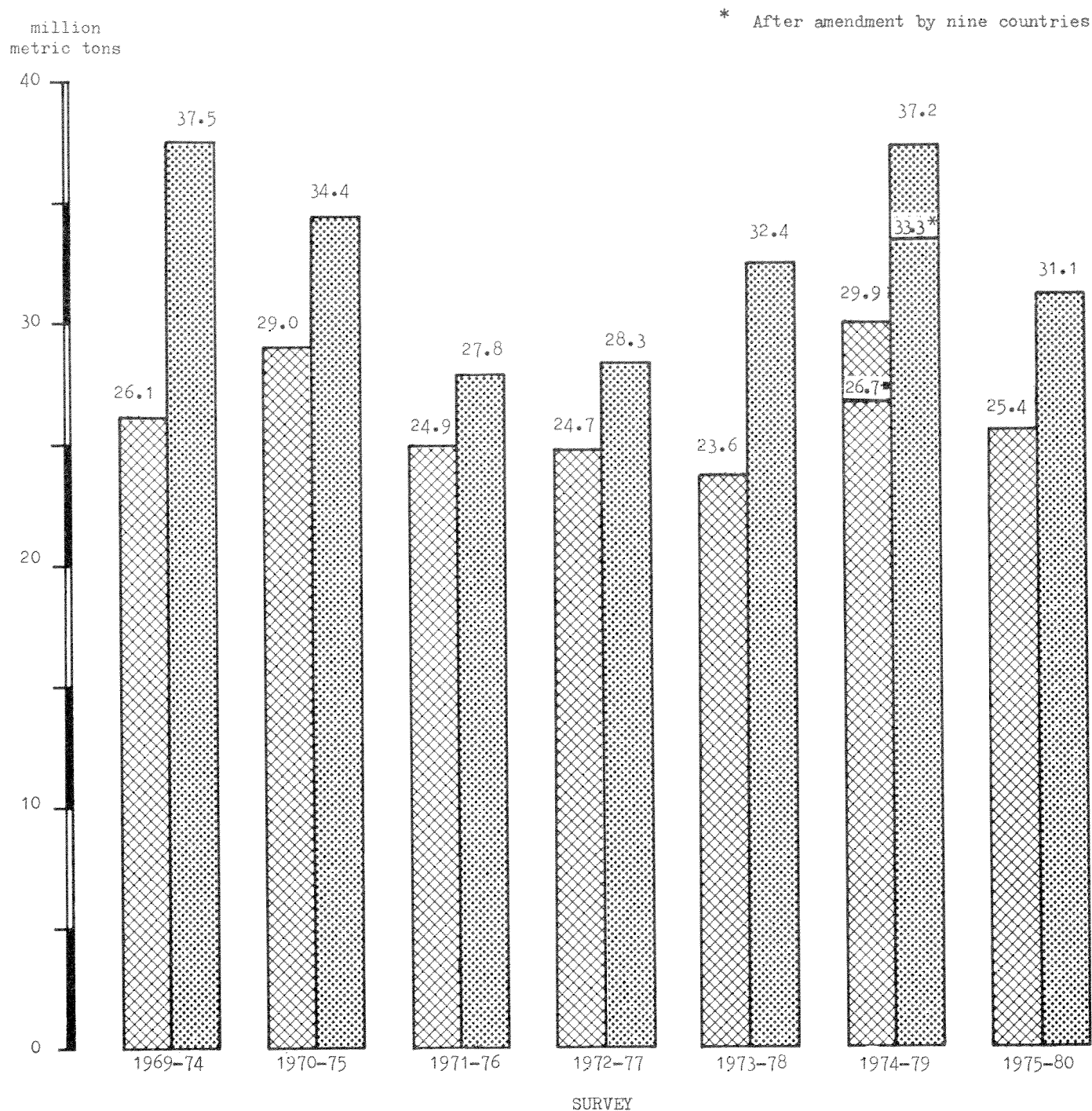
MARKET PULP CAPACITY, PAPER GRADES

	Total Pulp, Paper Grades				Chemical Woodpulp			
	1975	1976	1977	1978	1975	1976	1977	1978
	-----'000 metric tons air dry weight -----							
Developed Market Economies								
Canada	6,729	6,833	6,941	7,146	6,468	6,557	6,657	6,853
U.S.A.	3,557	3,536	3,715	3,866	3,513	3,424	3,601	3,752
NORTHERN AMERICA	10,286	10,369	10,656	11,012	9,981	9,981	10,258	10,605
Japan	1,502	1,545	1,579	1,647	1,336	1,376	1,408	1,467
Austria	195	195	195	195	180	180	180	180
Belgium	183	188	193	193	183	188	193	193
Denmark	160	170	170	170	-	-	-	-
Finland	1,870	1,870	1,980	2,010	1,800	1,800	1,910	1,940
France	510	505	515	580	490	490	500	565
Germany, Fed. Rep.	198	193	189	168	189	186	183	162
Ireland	19	29	29	29	-	-	-	-
Netherlands	13	5	5	5	-	-	-	-
Norway	1,135	1,155	1,170	1,155	450	470	485	470
Portugal	474	508	613	732	474	508	613	732
Spain	511	525	539	539	417	431	445	445
Sweden	5,320	5,350	5,240	5,365	4,595	4,625	4,480	4,585
Switzerland	120	120	120	120	110	110	110	110
United Kingdom	50	50	50	50	50	50	50	50
Yugoslavia	140	140	140	140	100	100	100	100
WESTERN EUROPE	10,898	11,003	11,148	11,451	9,038	9,138	9,249	9,532
Australia	12	12	16	16	-	-	-	-
New Zealand	532	627	697	697	397	397	397	397
OCEANIA	544	639	713	713	397	397	397	397
South Africa	11	37	50	46	11	25	36	39

MARKET PULP CAPACITY, PAPER GRADES

	Total Pulp, Paper Grades					Chemical Woodpulp				
	1975	1976	1977	1978	1979	1975	1976	1977	1978	1979
	--- '000 metric tons air dry weight ---									
<u>Developing Market Economies</u>										
Algeria	44	44	44	44		-	-	-	-	-
Angola	32	32	32	32		32	32	32	32	32
Morocco	55	55	87	96		55	55	87	96	96
Swaziland	132	140	145	150		132	140	145	150	150
Tunisia	10	8	7	7		-	-	-	-	-
AFRICA	273	279	315	329		219	227	264	278	278
Argentina	25	25	25	30		5	5	5	10	10
Brazil	562	633	933	1,623		508	578	878	1,568	1,568
Chile	402	418	428	441		368	384	394	407	407
Mexico	224	238	283	443		154	154	154	314	314
LATIN AMERICA	1,213	1,314	1,669	2,537		1,035	1,121	1,431	2,299	2,299
India	25	25	25	25		-	-	-	-	-
Indonesia	2	4	4	-		-	-	-	-	-
Korea, Republic of	18	24	34	34		6	6	6	6	6
Philippines	21	21	21	21		-	-	-	-	-
ASIA	66	74	84	84		6	6	6	6	6
<u>Centrally Planned Economies</u>										
Bulgaria	79	65	62	56		55	37	37	35	35
Hungary	2	2	2	2		-	-	-	-	-
Roumania	68	32	37	40		68	32	37	40	40
EASTERN EUROPE	149	99	101	98		123	69	74	75	75
U.S.S.R.	1,300	1,400	1,500	1,600		1,300	1,400	1,500	1,600	1,600
TOTAL OF COUNTRIES LISTED	26,242	26,759	27,815	29,517		23,446	23,740	24,623	26,298	26,298

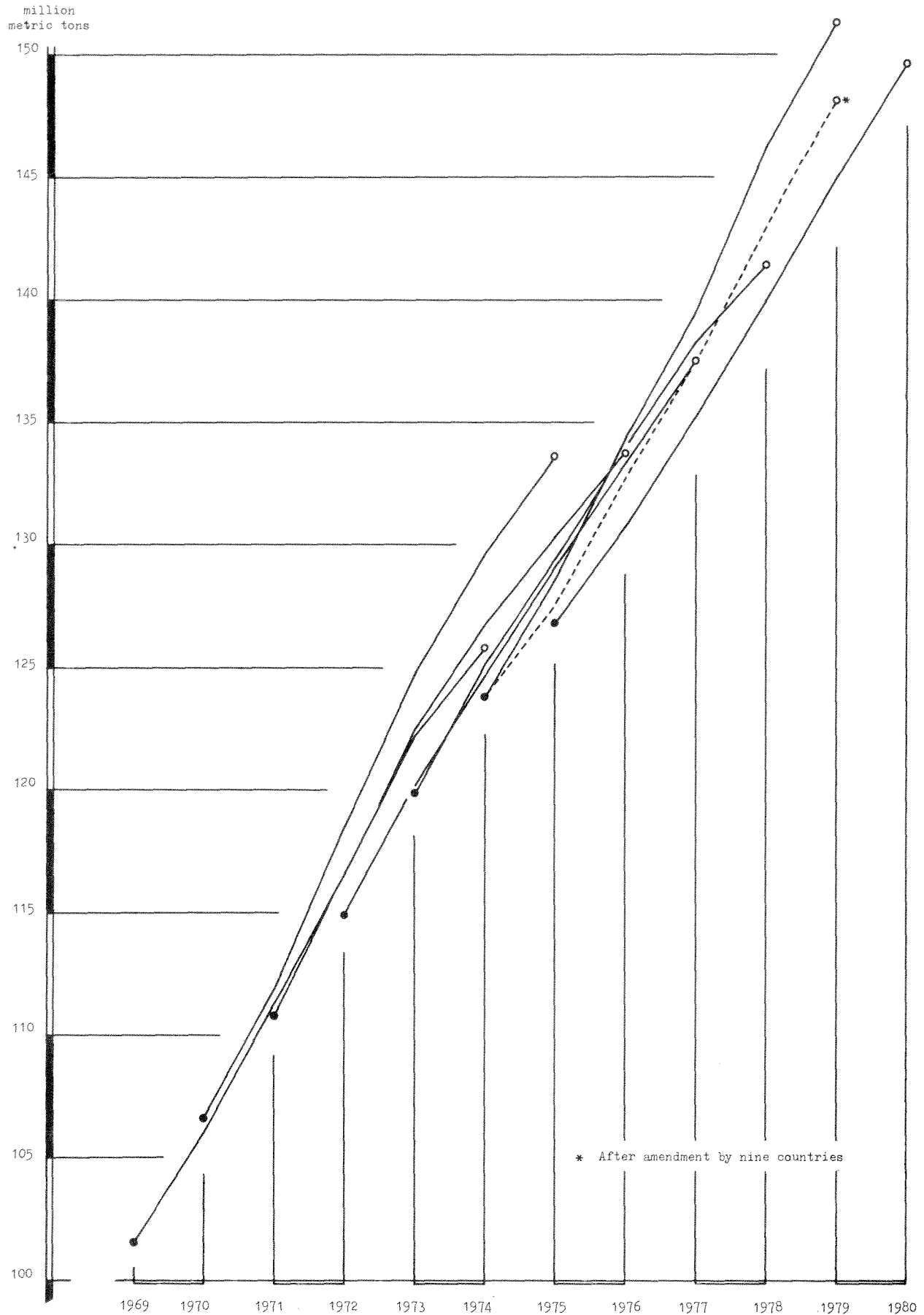
OVERALL INCREASE IN TOTAL PULP FOR PAPERMAKING AND TOTAL
PAPER AND PAPERBOARD FROM THE FIRST TO THE LAST YEAR OF SURVEY

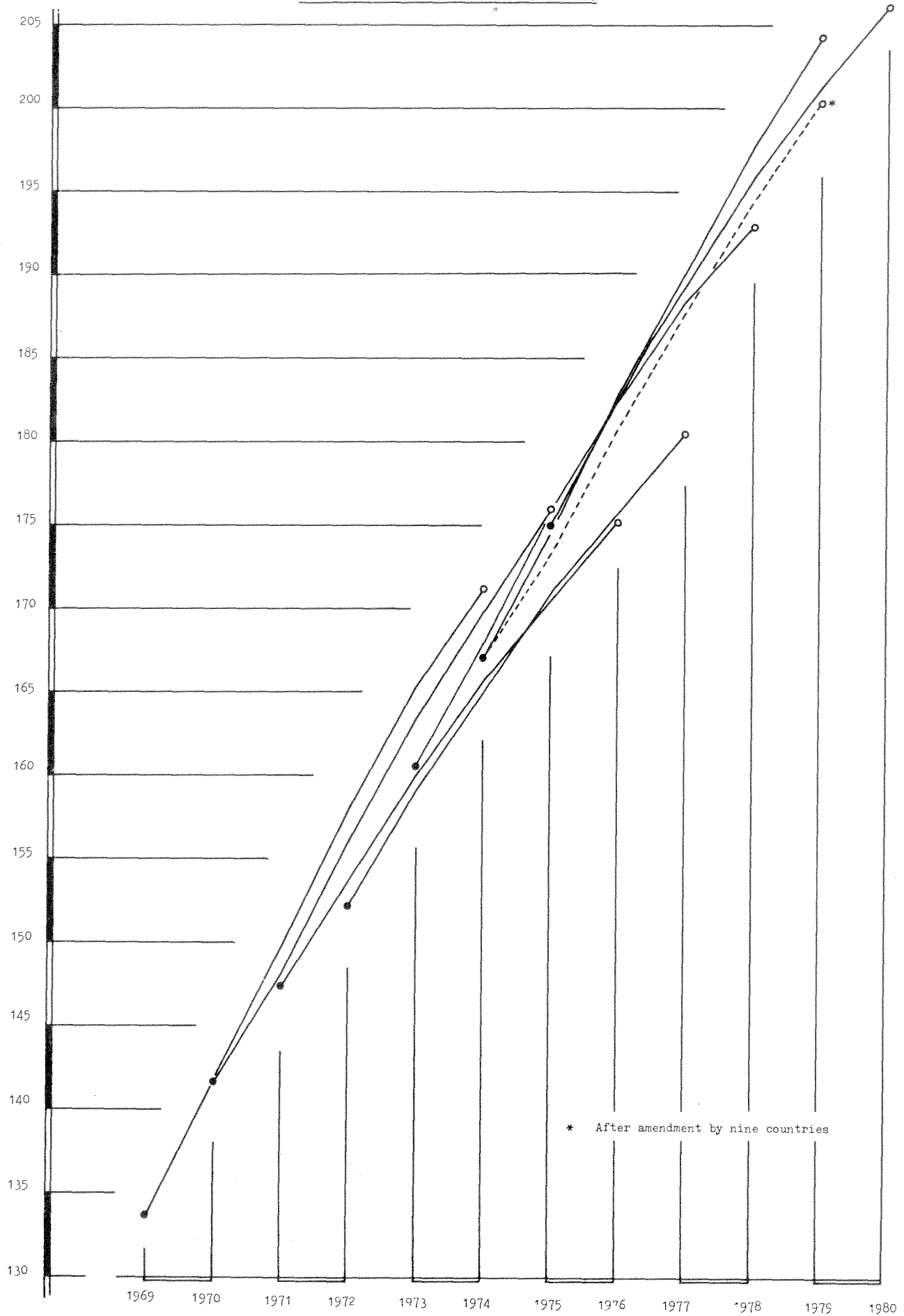


TOTAL PULP FOR PAPERMAKING

TOTAL PAPER AND PAPERBOARD

WOODPULP FOR PAPERMAKING WORLD CAPACITY 1969-1980:
COMPARISON OF ESTIMATES FROM SEVEN SURVEYS



million
metric tonsPAPER AND PAPERBOARD WORLD CAPACITY 1969-1980:
COMPARISON OF ESTIMATES FROM SEVEN SURVEYS

	FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS	FO: PAP/76/3.1 MARCH 1976 MARS 1976 MARZO 1976
	ORGANISATION DES NATIONS UNIES POUR L'ALIMENTATION ET L'AGRICULTURE	
	ORGANIZACION DE LAS NACIONES UNIDAS PARA LA AGRICULTURA Y LA ALIMENTACION	

FAO ADVISORY COMMITTEE ON PULP AND PAPER
 17th Session - Rome, 11-13 May 1976
 COMITE CONSULTATIF FAO DE LA PATE ET DU PAPIER
 17ème Session - Rome 11-13 mai 1976
 COMITE ASESOR DE LA FAO SOBRE LA PASTA Y EL PAPEL
 17o Periodo de Sesiones - Roma, 11-13 mayo 1976

WORLD PULP AND PAPER CAPACITIES 1975-1980
 CAPACITES MONDIALES DE LA PATE ET DU PAPIER 1975-1980
 CAPACIDADES MUNDIALES DE PASTA Y PAPEL 1975-1980

COUNTRY DATA
 CHIFFRES PAR PAYS
 DATOS RELATIVOS A LOS PAISES

LIST OF COUNTRIESAFRICA

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

NORTH AND CENTRAL AMERICA

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

SOUTH AMERICA

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

ASIA

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

LISTE DE PAYSAFRIQUE

- Algérie
- Angola
- Cameroun
- Egypte
- Ethiopie
- Kenya
- République arabe libyenne
- République Malagasy
- Malawi
- Maroc
- Mozambique
- Nigeria
- Rhodésie
- 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
- Cambodge
- Chine
- Chypre
- Hong-Kong
- Inde
- Indonésie
- Iran
- Irak
- Israel
- Japon
- Jordanie
- Corée, Rép. Pop. Dém.
- Corée, République de
- Liban
- Malaisie
- Mongolie
- Népal
- Pakistan
- Philippines
- Singapour
- Sri Lanka
- Thaïlande
- Turquie
- Viet-Nam, Rép. Dém.
- Viet-Nam, Rép. du sud

LISTA DE LOS PAISESAFRICA

- Algeria
- Angola
- Camerún
- Egipto
- Etiopía
- Kenia
- República Arábiga Libia
- Madagascar
- Malawi
- Mauricio
- Mozambique
- Nigeria
- Rhodesia
- Sudáfrica
- Sudán
- Swazilandia
- Túnez
- Uganda
- Zaire

AMERICA DEL NORTE Y CENTRAL

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

AMERICA LATINA

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

ASIA

- Bangladesh
- Birmania
- Cambodia
- China
- Chipre
- Hong Kong
- India
- Indonesia
- Irán
- Irak
- Israel
- Japon
- Jordania
- Corea, Rep. Pop. Dem.
- Corea, República de
- Libano
- Malasia
- Mongolia
- Nepal
- Paquistán
- Filipinas
- Singapur
- Sri Lanka
- Tailandia
- Turquia
- Viet-Nam, Rep. Dem.
- Viet-Nam, República del sur

EUROPE

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

OCEANIA

- † 92. Australia
- † 93. New Zealand
- 94. U.S.S.R.

EUROPE

- Albanie
- Autriche
- Belgique/Luxembourg
- Bulgarie
- Tchécoslovaquie
- Danemark
- Finlande
- France
- Allemagne, République Dém.
- Allemagne, République féd. de
- Grece
- Hongrie
- Irlande
- Italie
- Pays-Bas
- Norvege
- Pologne
- Portugal
- Roumanie
- Espagne
- Suede
- Suisse
- Royaume Uni
- Yugoslavie

OCEANIE

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

EUROPA

- Albania
- Austria
- Bélgica/Luxembourg
- 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 Británico
- Yugoslavia

OCEANIA

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

- † DEVELOPED MARKET ECONOMIES - PAYS DEVELOPPES A ECONOMIES DE MARCHE - ECONOMIAS DE MERCADO DESARROLLADAS
- * DEVELOPING MARKET ECONOMIES - PAYS EN DEVELOPPEMENT A ECONOMIES DE MARCHE - ECONOMIAS DE MERCADO EN DESARROLLO
- CENTRALLY PLANNED ECONOMIES - PAYS A ECONOMIES CENTRALEMENT PLANIFIEES - ECONOMIAS DE PLANIFICACION CENTRALIZADA

WESTERN EUROPE:

- E. E. C.:
- Belgium/Luxembourg
- Denmark
- France
- Germany Fed. Repr
- 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
- Norvege
- Suede

AUTRES PAYS DE L'EUROPE OCCIDENTALE:

- Autriche
- Grece
- Portugal
- Espagne
- Suisse
- Yugoslavie

EUROPA OCCIDENTAL:

- C. E. E.:
- Bélgica/Luxemburgo
- Dinamarca
- Francia
- Alemania Rep. fed.
- Irlanda
- Italia
- Países Bajos
- Reino Unido

PAISES NORDICOS:

- Finlandia
- Noruega
- Suecia

OTROS PAISES DE L'EUROPA OCCIDENTAL:

- Austria
- Grecia
- Portugal
- España
- Suiza
- Yugoslavia

PULP TERMINOLOGY

ENGLISH

FRANCAIS

ESPAÑOL

1. Wood pulp for making paper and paperboard, total:	Total des pates de bois pour la fabrication des papiers et cartons:	Total des pastas de madera para papel y cartón
1.1. Mechanical	Pates 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	Pates chimico-mécaniques et mi-chimiques	Quimiomecánica 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 pates chimiques:	Total de química
1.3.1 Unbleached sulphite	Pates au bisulfite écru	Al sulfito, sin blanquear
1.3.1.1 of which: non-coniferous	dont: de bois de non-conifères	de la cual: de especies no coníferas
1.3.2 Bleached and semibleached sulphite	Pates au bisulfite mi-blanchies et blanchies	Al sulfito semi-blanqueada y blanqueada
1.3.3 Unbleached sulphate and soda	Pates au sulfate et à la soude écru	Al sulfato sin blanquear y a la sosa
1.3.3.1 of which: non-coniferous	dont: de bois de non-conifères	de la cual: de especies no coníferas
1.3.4 Bleached and semibleached sulphate and soda	Pates au sulfate et à la soude blanchies et mi-blanchies	Al sulfato semi-blanqueada y a la sosa
1.3.4.1 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 pates de matériaux végétaux fibreux autres que le bois pour la fabrication des papiers et cartons:	Total de otras pastas fibrosas para papel y cartón:
2.1. Straw	Pates de paille	De paja
2.2. Bagasse	Pates de bagasse	De bagazo
2.3. Bamboo	Pates 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)	Pates 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

ENGLISH

FRANCAIS

ESPAÑOL

4. Paper and Paperboard, total:	Total papiers et cartons:	Total de papeles y cartones:
4.1 Newsprint	Papier Journal	Papel para periódicos (papel prensa)
4.2 Other printing and writing paper, total:	Total autres papiers d'impression et d'écriture:	Total de otros papeles de escritura y impresión:
4.21 Coated:	Couchés:	Estucados:
4.21.1 Wood containing	Avec bois	Con pasta mecánica
4.21.2 Wood free	Sans bois	Sin pasta mecánica
4.22 Uncoated:	Non couchés:	Sin estucar:
4.22.1 Wood containing	Avec bois	Con pasta mecánica
4.22.2 Wood free	Sans bois	Sin pasta mecánica
4.3 Other paper and paperboard, total:	Total autres papiers et cartons:	Total de otros papeles y cartones:
4.31 Household and sanitary paper	Papiers à usage domestique et hygiénique	Papel de uso doméstico y sanitario
4.32 Wrapping and packaging paper and paperboard, total:	Papiers et cartons d'emballage et d'emballage:	Papel y cartón de envolver y empaquetar:
4.32.1 Lineboard:	Carton de couverture:	Cartón de capa:
4.32.11 Kraft liner:	Couverture kraft pour carton ondulé:	Papel kraft para forros:
4.32.11.1 Unbleached	Ecrue	Sin blanquear
4.32.11.2 Bleached	Blanchie	Blanqueado
4.32.12 Other linerboard	Autres cartons de couverture	Otros cartones de capa
4.32.2 Fluting medium:	Cannelures:	Medio para acanalar:
4.32.21 Semi-chemical	Mi-chimique	Semiquímico
4.32.22 Other fluting medium	Autres cannelures	Otros medios para acanalar
4.32.3 Kraft wrapping and packaging paper:	Papiers kraft d'emballage et d'emballage:	Papel kraft de envolver y empaquetar:
4.32.31 Sack kraft	Papier kraft pour grands sacs	Papel kraft para sacos
4.32.32 Other kraft wrapping and packaging paper	Autres papiers kraft d'emballage et d'emballage	Otros tipos de papel kraft de envolver y empaquetar
4.32.4 Folding boxboard:	Cartons pour boîtes pliantes:	Cartones sólidos par cajas plegables:
4.32.41 Solid bleached board	Carton compact blanchi	Cartón sólido blanqueado
4.32.42 Other folding boxboard	Autres cartons pour boîtes pliantes	Otros cartones sólidos para cajas plegables
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	Autres papiers et cartons d'emballage et d'emballage:	Otros papeles y cartones de envolver y empaquetar:
4.32.51 Paper	Papiers	Papeles
4.32.52 Paperboard	Cartons	Cartones
4.33 Other paper and paperboard, n.e.s., total	Total autres papiers et cartons, non décrits ailleurs:	Total de otros papeles y cartones, no especificado anteriormente:
4.33.1 Paper, n.e.s.	Papiers, n.d.a.	Papeles, n.e.a.
4.33.2 Paperboard, n.e.s.	Cartons, n.d.a.	Cartones, n.e.a.

NOTES FOR GUIDANCEDEFINITION 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

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 woodpulp, waste paper or any combination of these. They may be plain or coloured throughout the mass, solid, single or double lined, coated or uncoated.

Include such folding boxboards as:

white lined board
solid bleached board
chipboard (plain or coloured)
folding kraft board

Exclude non-folding board for shipping cases, which is included in code 4.32.52

<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 woodpulp, 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, asphaltting, water-proofing, 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.

DEFINITIONSDEFINITION 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

Les changements de capacité ne doivent figurer que pour la partie de l'année où il se produisent effectivement.

a) Additions

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

b) Réductions

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

DEFINITIONS DES PATES

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

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

<u>No. Code</u> <u>Enquête</u>	<u>Produit</u>	<u>Définition</u>
1.1	Mécaniques	Pâtes (et pâtes de déchets) obtenues par le broyage ou le râpage (défibrage) de bois de conifères ou de non-conifères en rondins, morceaux, billes, etc. ou par le raffinage de copeaux de bois de conifères ou de non-conifères. Elles sont dites "pâtes de bois de râperie" et "pâte mécanique de copeaux". Elles peuvent être blanchies ou non. <u>Cette rubrique 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. Elle 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</u> <u>Enquête</u>	<u>Produit</u>	<u>Définition</u>
	au Bisulfite	Pâtes (et déchets de pâtes) obtenues en réduisant mécaniquement des bois de conifères ou de non-conifères en copeaux et en les cuisant ensuite sous pression avec une lessive de cuisson au bisulfite. Les bisulfites les plus communément utilisés sont ceux d'ammonium, de calcium, de magnésium et de sodium.
		<u>Cette rubrique ne comprend pas</u>
		les pâtes à dissoudre qui ont une très forte teneur en alpha-cellulose (en général 90% ou plus). Elles sont classées sous les rubriques 3 et 3.1.
1.31	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-blanchies	Pâtes au bisulfite qui sont blanchies ou mi-blanchies.
1.32.1	dont: de bois de non-conifères	Pâtes au bisulfite blanchies ou mi-blanchies obtenues de bois de non-conifères.
	au Sulfate et à la soude	Pâtes (et déchets de pâtes) obtenues en réduisant mécaniquement des bois de conifères ou de non-conifères en copeaux et en les cuisant ensuite sous pression avec une lessive de cuisson à base de soude caustique (pour les pâtes à la soude) ou d'un mélange de soude caustique et de sulfate de sodium (pour les pâtes au sulfate).
		<u>Cette rubrique ne comprend pas</u>
		les pâtes à dissoudre qui ont une très forte teneur en alpha-cellulose (en général 90% ou plus). Elles sont classées sous les rubriques 3 et 3.1.
1.33	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-blanchies	Pâtes au sulfate et à la soude qui sont blanchies ou mi-blanchies.
1.34.1	dont: de bois de non-conifères	Pâtes au sulfate et à la soude blanchies ou mi-blanchies obtenues de bois de non-conifères.

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

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

Cette rubrique ne comprend pas

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

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.
		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.
3.1	dont: de bois de non-conifères	Pâtes à dissoudre obtenues de bois de non-conifères.

DEFINITIONS DES PAPIERS ET CARTONS

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

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

<u>No. Code</u> <u>Enquête</u>	<u>Produit</u>	<u>Définition</u>
4.1	Papier journal	Papier non couché, non collé ou très légèrement, contenant au moins 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. dont:
4.21	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</u> <u>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</u> <u>Enquête</u>	<u>Produit</u>	<u>Définition</u>
4.32	Papiers et cartons d'emballage et d'emballage	Papiers et cartons destinés à l'emballage et l'emballage, fabriqués à partir de pâtes, de vieux papiers ou de n'importe quel combinaison de ces deux types de matières.
4.32.1	Carton de couverture	Carton fabriqué à partir de pâte au sulfate (blanchie ou non) ou essentiellement à partir de vieux papiers, employé pour couvrir des cartons ondulés ou des papiers ou carton compacts utilisés pour faire des boîtes ou récipients.
4.32.11	Couverture kraft pour carton ondulé	Cartons de couverture faits uniquement ou principalement de pâte au sulfate, blanchie ou écrue.
4.32.11.1	Ecrue	Couverture kraft pour carton ondulé faite uniquement ou principalement de pâte au sulfate écrue.
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'emballage 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'emballage.
4.32.31	Papiers kraft pour grands sacs	Papiers kraft d'emballage et d'emballage blanchis et écrus utilisés dans la fabrication des sacs d'emballage à une ou plusieurs épaisseurs.
4.32.32	Autres papiers kraft d'emballage et d'emballage	Papiers kraft d'emballage et d'emballage 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 colorés dans la masse, compacts, doublés une ou deux faces, couchés ou non couchés.

No. Code
Enquête

Produit

Définition

Cette rubrique comprend

des cartons pour boîtes pliants tels que:

carton blanc satiné
cartons compacts blanchis
cartons gris à l'état naturel ou colorés
cartons kraft pliables

Cette rubrique ne comprend pas

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.

Cette rubrique comprend

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'emballage
et d'emballage

Papiers et cartons destinés à l'emballage et l'emballage, 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</u> <u>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 pâtisserie, 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'emballage et d'emballage ne figurant dans la rubrique i) ci-dessus ni sous la code 4.32.32
4.32.52	Cartons	Cartons d'emballage 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 écruës, 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

No. Code
Enquête

Produit

Définition

perforations, la résistance, la texture serrée, l'opacité, une faible perméabilité, la pureté chimique - toutes ces caractéristiques étant liées à des utilisations spéciales.

Cette rubrique comprend

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

Cette rubrique ne comprend pas

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.

Cette rubrique ne comprend pas

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

Cette rubrique comprend

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. Code</u> <u>Enquête</u>	<u>Produit</u>	<u>Définition</u>
4.33.2	Cartons	Cartons non décrits ailleurs, tels que: i) papiers et cartons de construction Papiers, feutres et cartons utilisés dans la construction comme isolants, joints d'étanchéité au gaz, sous-couches de plafonds ou de planchers, etc. Ils sont faits avec des matières complètement raffinées telles que pâtes de bois, vieux papiers, autres pâtes végétales et fibres minérales. La faible conductivité thermique, la résistance à l'humidité, au feu, à la vermine et aux insectes et la durabilité sont des caractéristiques souhaitables pour ces matières. <u>Cette rubrique ne comprend pas</u> a) les papiers, feutres et cartons imprégnés, imprégnés à coeur, à plusieurs épaisseurs ou traités de toute autre manière (c'est-à-dire travaillés). b) les panneaux de fibres durs, mi-durs et isolants. ii) autres cartons non décrits ailleurs. <u>Cette rubrique comprend</u> des cartons tels que: cartons pour l'industrie et la chaussure cartons pour joints cartons pour transformateurs cartons pour apprêts textiles cartons pour classeurs cartons pour carrosserie automobile cartons pour dessous de bocks cartons pour valises et malles cartons pour flans de clicherie.

NOTAS EXPLICATIVASDEFINICION 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

Los cambios de capacidad deben aplicarse solamente a la parte del año en que surtan efecto.

a) Aumentos de capacidad.

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

b) Reducciones de capacidad.

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

DEFINICIONES DE PASTA

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

1. Pasta de madera para papel y cartón

<u>Código de la encuesta</u>	<u>Tipo</u>	<u>Definición</u>
1.1	Mecánica	Pasta de madera, incluida la pasta de desecho, obtenida moliendo o desfibrando troncos, 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 sí solo para hacer que las fibras se separen con facilidad. Según el orden y la importancia de los tratamientos, esta pasta recibe diversas denominaciones, a saber: semiquímica, quimiomecánica, etc. Con estos procesos combinados es posible conservar en la pasta una mayor cantidad de los componentes de lignina y hemicelulosa de la madera; por consiguiente, la proporción de pasta producida respecto al peso de la madera empleada es frecuentemente muy alta. Puede ser blanqueada o no.
1.21	de la cual: de especies no coníferas	Pasta quimiomecánica y semiquímica obtenida de especies no coníferas.

<u>Código de la enquesta</u>	<u>Tipo</u>	<u>Definición</u>
	Al sulfito	Pasta de madera, incluidos los desechos, obtenida reduciendo mecánicamente a partículas madera de coníferas o frondosas cociéndolas después en autoclave en presencia de licor de cocción al bisulfito. Suelen emplearse bisulfitos tales como los de amonio, calcio, magnesio y sodio. <u>Exclúyanse</u> los tipos solubles con un alto contenido de alfa-celulosa (generalmente 90% o más). Inclúyanse 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 sosa	Pasta de madera, incluidos los desechos, obtenida reduciendo mecánicamente a partículas madera de coníferas o frondosas y cociéndolas después en autoclave en presencia de licor de cocción al hidróxido de sodio (pasta a la sosa) o de un licor de cocción consistente en una mezcla de hidróxido de sodio y sulfuro de sodio (pasta al sulfato). <u>Exclúyanse</u> los tipos solubles con un alto contenido de alfa-celulosa (generalmente 90% o más). Inclúyanse éstos en los códigos 3 y 3.1.
1.33	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 encuesta</u>	<u>Tipo</u>	<u>Definición</u>
2.1	(De) paja	Pasta hecha de paja con cualquier método. Puede ser blanqueada.
2.2	(De) bagazo	Pasta hecha de los residuos del beneficiado de la caña de azúcar con cualquier método. Puede ser blanqueada.
2.3	(De) bambú	Pasta hecha de bambú con cualquier método. Puede ser blanqueada.
2.4	(De) otras materias (carrizos, esparto, trapos, etc.)	Se incluye toda pasta hecha con cualquier método de materias como esparto y otros carrizos y hierbas, borra de algodón, lino, cáñamo, trapos, y otros residuos textiles. Puede ser blanqueada.
<u>Exclúyanse</u> los tipos solubles; inclúyaselos en el código 3.		

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 celulósicos, lacas, explosivos, etc.
3.1	de la cual: de especies no coníferas	Pasta soluble hecha de madera de especies no coníferas.

DEFINICIONES DE PAPEL Y CARTON

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

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

<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>Inclúyase</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>Inclúyanse</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.
	de la cual:	
4.21	estucado	Papeles de impresión y escritura, salvo el papel para periódicos, que hayan sido estucados por uno o ambos lados con materiales para estucar como tiza (caolín beneficiado), sulfato de bario, yeso u óxido de cinc, suplementado a veces con supercalandradura, etc.

Código
de la
encuesta

Tipo

Definición

Inclúyase el papel estucado producido en la fábrica de papel a partir de papel soporte fabricado para uso propio o comprado y todo el papel hecho y estucado en una sola operación en la máquina de papel.

de la cual:

4.21.1 con pasta mecánica

Papeles estucados de escritura e impresión que contienen un 10% o más de pasta mecánica.

4.21.2 sin pasta mecánica

Papeles estucados de escritura e impresión que contienen menos de un 10% de pasta mecánica.

4.22 sin estucar

Papeles de impresión y escritura, salvo el papel para periódicos, que han sido sometidos a encolado, calandradura, supercalandradura, satinado, afiligranado u otros procesos sencillos de acabado, pero no al estucado.

Exclúyase el papel soporte para estucar para uso propio o para la venta a otras papeleras.

de la cual:

4.22.1 con pasta mecánica

Papeles sin estucar de escritura e impresión que contienen un 10% o más de pasta mecánica.

4.22.2 sin pasta mecánica

Papeles sin estucar de escritura e impresión que contienen menos de un 10% de pasta mecánica.

4.31 Papel de uso doméstico y sanitario

Papel absorbente, crepé o no, a veces gofrado, hecho de pasta, blanqueada o no, 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.

Inclúyanse tipos de papeles crepé o no como:

toallas
servilletas
papel facial
papel higiénico
guata sanitaria
papeles sanitarios
material limpiador

<u>Código de la encuesta</u>	<u>Tipo</u>	<u>Definición</u>
4.32	Papel y cartón de envolver y empaquetar	Papel y cartón para envolver y empaquetar, hecho de pastas, recortes y cualquier combinación de ambos.
4.32.1	Cartón de capa	Cartón hecho de pasta al sulfato, blanqueado o no, o principalmente de recortes utilizados como material facial sobre cartón acanalado o sólido o sobre cajas y recipientes de cartón.
4.32.11	Papel kraft para forros	Cartón de capa o cara hecho en todo o principalmente de pasta al sulfato blanqueado o no.
4.32.11.1	sin blanquear	Papel kraft para forros hecho total o principalmente de pasta al sulfato sin blanquear.
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.

Código
de la
encuesta

Tipo

Definición

Inclúyanse cartones sólidos para cajas plegables como:

cartón con forro blanco
cartón sólido blanqueado
cartón de astillas (natural or coloreado)
cartón kraft plegable

Exclúyase el cartón no plegable para caja de embarque, comprendido en el código 4.32.52

4.32.41 Cartón sólido
 blanqueado

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.

Inclúyanse cartones como:

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.

4.32.42 Otros cartones
 sólidos para
 cajas plegables

Cartones sólidos para cajas plegables, exceptuado el cartón sólido blanqueado, hecho de pastas de madera, papel viejo, o cualquier mezcla de los dos.

4.32.5 Otros papeles y
 cartones de envolver
 y empaquetar

Papeles y cartones de envolver y empaquetar no incluidos en otros párrafos.

4.32.51 Papel

Papeles como los siguientes:

- i) pergamino vegetal, papel impermeable a las grasas y papel glaseado (papel cristal)

Papeles hechos de pasta de madera química pura o de mezclas de pasta de madera química, de 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 mantequilla, la margarina, la carne y el pescado, como forros para cazuelas, papel anti-adhesivo, sacos esterilizadores, pergamino o imitaciones de pergamino.

<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

Código
de la
encuesta

Tipo

Definición

- ii) papel kraft empleado para encerar, asfaltar, impermeabilizar, laminar, impregnar, hilar o torcer, engomar, etc.

Exclúyanse 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.

Inclúyanse 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.

Exclúyanse 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

Inclúyanse 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.

III

COUNTRY DATA

CHIFFRES PAR PAYS

DATOS RELATIVOS A LOS PAISES

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

[illegible]

1 Country: ALGERIA							
	1975	1976	1977	1978	1979	1980	
	1,000 metric tons per year						
4 Paper and Paperboard, total:	126	142	147	154	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:	68	84	89	96	99	99	
4.31 Household and sanitary paper	5	5	5	5	5	5	
4.32 Wrapping and packaging paper and paperboard, total:	63	79	84	91	94	94	
4.32.1 Linerboard:	-	6	8	10	11	11	
4.32.11 Kraft liner:	-	6	8	10	11	11	
4.32.11.1 Unbleached	-	6	8	10	11	11	
4.32.11.2 Bleached	-	-	-	-	-	-	
4.32.12 Other linerboard	-	-	-	-	-	-	
4.32.2 Fluting medium:	-	6	8	10	11	11	
4.32.21 Semi-chemical	-	-	-	-	-	-	
4.32.22 Other fluting medium	-	6	8	10	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.:	14	18	19	22	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

[illegible]

2 Country: ANGOLA

	1975	1976	1977	1978	1979	1980
	----- 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 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	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.	-	-	-	-	-	-

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

[illegible]

3 Country: CAMEROON

	1975	1976	1977	1978	1979	1980
	----- 1,000 metric tons per year -----					
4 Paper and Paperboard, total:	5	5	5	5	5	33
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, total:	-	-	-	-	-	12
4.21 Coated:	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated:	-	-	-	-	-	12
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	-	-	-	-	-	12
4.3 Other paper and paperboard, total:	5	5	5	5	5	21
4.31 Household and sanitary paper	-	-	-	-	-	-
4.32 Wrapping and packaging paper and paperboard, total:	5	5	5	5	5	21
4.32.1 Linerboard:	-	-	-	-	-	12
4.32.11 Kraft liner:	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	12
4.32.2 Fluting medium:	-	-	-	-	-	3
4.32.21 Semi-chemical	-	-	-	-	-	3
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	6
4.32.51 Paper	3	3	3	3	3	4
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.	-	-	-	-	-	-

4 Country: EGYPT									
	1975	1976	1977	1978	1979	1980	1,000 metric tons per year		
4 Paper and Paperboard, total:	218	249	258	262	262	276			
4.1 Newsprint	-	5	6	7	7	7			
4.2 Other printing and writing paper, total:	60	70	72	73	73	87			
4.21 Coated:	-	-	-	-	-	-			
4.21.1 Wood containing	-	-	-	-	-	-			
4.21.2 Wood free	-	-	-	-	-	-			
4.22 Uncoated:	60	70	72	73	73	87			
4.22.1 Wood containing	-	-	-	-	-	-			
4.22.2 Wood free	60	70	72	73	73	87			
4.3 Other paper and paperboard, total:	158	174	180	182	182	182			
4.31 Household and sanitary paper	-	-	-	-	-	-			
4.32 Wrapping and packaging paper and paperboard, total:	158	174	180	182	182	182			
4.32.1 Linerboard:	5	12	15	16	16	16			
4.32.11 Kraft liner:	5	12	15	16	16	16			
4.32.11.1 Unbleached	5	12	15	16	16	16			
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:	20	27	30	30	30	30			
4.32.31 Sack kraft	-	-	-	-	-	-			
4.32.32 Other kraft wrapping and packaging paper	20	27	30	30	30	30			
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.:	99	101	101	102	102	102			
4.32.51 Paper	31	31	31	31	31	31			
4.32.52 Paperboard	68	70	70	71	71	71			
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

[illegible]

5 Country: ETHIOPIA

	1975	1976	1977	1978	1979	1980
	----- 1,000 metric tons per year -----					
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 Uncoated:	4	4	4	4	4	4
4.22.1 Wood containing	2	2	2	2	2	2
4.22.2 Wood free	2	2	2	2	2	2
4.3 Other paper 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.	-	-	-	-	-	-

6 Country: KENYA		1975	1976	1977	1978	1979	1980
		1,000 metric tons per year					
4 Paper and Paperboard, total:		41	51	51	51	51	51
4.1 Newsprint		-	-	-	-	-	-
4.2 Other printing and writing paper, total:		17	22	22	22	22	22
4.21 Coated:		-	-	-	-	-	-
4.21.1 Wood containing		-	-	-	-	-	-
4.21.2 Wood free		-	-	-	-	-	-
4.22 Uncoated:		17	22	22	22	22	22
4.22.1 Wood containing		-	-	-	-	-	-
4.22.2 Wood free		17	22	22	22	22	22
4.3 Other paper and paperboard, total:		24	29	29	29	29	29
4.31 Household and sanitary paper		-	-	-	-	-	-
4.32 Wrapping and packaging paper and paperboard, total:		24	29	29	29	29	29
4.32.1 Linerboard:		9	11	11	11	11	11
4.32.11 Kraft liner:		9	11	11	11	11	11
4.32.11.1 Unbleached		9	11	11	11	11	11
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	5	5	5	5	5
4.32.22 Other fluting medium		-	-	-	-	-	-
4.32.3 Kraft wrapping and packaging paper:		5	7	7	7	7	7
4.32.31 Sack kraft		-	-	-	-	-	-
4.32.32 Other kraft wrapping and packaging paper		5	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.		-	-	-	-	-	-

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

[illegible]

7 Country: LIBYAN ARAB REPUBLIC

	1975	1976	1977	1978	1979	1980
	----- 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.	-	-	-	-	-	-

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

8 Country: MADAGASCAR

[illegible]

8 Country: MADAGASCAR

----- 1,000 metric tons per year -----										
	1975	1976	1977	1978	1979	1980				
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	3	8	8				
4.31 Household and sanitary paper	-	-	-	-	-	-				
4.32 Wrapping and packaging paper and paperboard, total:	8	8	8	6	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.	-	-	-	-	-	-				

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

9 Country: MALAWI

[illegible]

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.)	-	-	-	-	-	-	-	-	-

[illegible]

9 Country: MALAWI

	1975	1976	1977	1978	1979	1980
	----- 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.	-	-	-	-	-	-

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

10 Country: MOROCCO

10 Country: MOROCCO									
	1975		1976		1977		1978		1980
	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 Wood pulp for making paper and paperboard, total:	55	55	55	55	87	87	96	96	100
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	55	87	87	96	96	100
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	55	87	87	96	96	100
1.34.1 of which: non-coniferous	55	55	55	55	87	87	96	96	100

[illegible]

3 Dissolving pulp (wood and other fibrous raw materials)	-	-	-	-	-	-	-	-
3.1 of which: non-coniferous	-	-	-	-	-	-	-	-

10 Country: MOROCCO

	1975	1976	1977	1978	1979	1980
	----- 1,000 metric tons per year -----					
4 Paper and Paperboard, total:	106	131	138	141	141	141
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, total:	13	21	23	24	24	24
4.21 Coated:	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated:	13	21	23	24	24	24
4.22.1 Wood containing	2	3	3	4	4	4
4.22.2 Wood free	11	18	20	20	20	20
4.3 Other paper and paperboard, total:	93	110	115	117	117	117
4.31 Household and sanitary paper	-	1	2	2	2	2
4.32 Wrapping and packaging paper and paperboard, total:	93	109	113	115	115	115
4.32.1 Linerboard:	13	13	13	13	13	13
4.32.11 Kraft liner:	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	13	13	13	13	13	13
4.32.2 Fluting medium:	6	6	6	6	6	6
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	6	6	6	6	6	6
4.32.3 Kraft wrapping and packaging paper:	15	20	22	23	23	23
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping and packaging paper	15	20	22	23	23	23
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	41	43	44	44	44
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

[illegible]

11 Country: MOZAMBIQUE

	1975	1976	1977	1978	1979	1980
	1,000 metric tons per year					
4 Paper and Paperboard, total:	10	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:	10	11	11	11	11	11
4.31 Household and sanitary paper	-	-	-	-	-	-
4.32 Wrapping and packaging paper and paperboard, total:	10	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.:	10	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.	-	-	-	-	-	-

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

12 Country: NIGERIA									
1975		1976		1977		1978		1979	1980
Total capacity	of which market pulp	Total capacity	of which market pulp	Total capacity	of which market pulp	Total capacity	of which market pulp	Total capacity	Total capacity
----- 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									

12 Country: NIGERIA

	1975	1976	1977	1978	1979	1980
	1,000 metric tons per year					
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 Lineboard:	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.	-	-	-	-	-	-

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

[illegible]

13 Country: RHODESIA

	1975	1976	1977	1978	1979	1980
	1,000 metric tons per year					
4 Paper and Paperboard, total:	65	65	65	65	85	93
4.1 Newsprint	12	12	12	12	23	26
4.2 Other printing and writing paper, total:	2	2	2	2	11	16
4.21 Coated:	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated:	2	2	2	2	11	16
4.22.1 Wood containing	2	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 Linerboard:	8	8	8	8	8	8
4.32.11 Kraft liner:	8	8	8	8	8	8
4.32.11.1 Unbleached	8	8	8	8	8	8
4.32.11.2 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.	-	-	-	-	-	-

14 Country: SOUTH AFRICA

	1975	1976	1977	1978	1979	1980
	1,000 metric tons per year					
4 Paper and Paperboard, total:	943	996	1,127	1,155	1,181	1,184
4.1 Newsprint	230	230	285	262	263	263
4.2 Other printing and writing paper, total:	102	127	176	185	186	187
4.21 Coated:	-	10	15	16	16	16
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	10	15	16	16	16
4.22 Uncoated:	102	117	161	169	170	171
4.22.1 Wood containing	9	9	12	12	12	12
4.22.2 Wood free	93	108	149	157	158	159
4.3 Other paper and paperboard, total:	611	639	666	708	732	734
4.31 Household and sanitary paper	37	55	66	66	66	66
4.32 Wrapping and packaging paper and paperboard, total:	542	555	571	613	637	639
4.32.1 Linerboard:	202	211	220	235	248	248
4.32.11 Kraft liner:	140	142	149	160	173	173
4.32.11.1 Unbleached	140	142	149	160	173	173
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	62	69	71	75	75	75
4.32.2 Fluting medium:	134	138	142	142	142	142
4.32.21 Semi-chemical	121	121	121	121	121	121
4.32.22 Other fluting medium	13	17	21	21	21	21
4.32.3 Kraft wrapping and packaging paper:	84	84	86	93	104	106
4.32.31 Sack kraft	59	59	61	68	79	81
4.32.32 Other kraft wrapping and packaging paper	25	25	25	25	25	25
4.32.4 Folding boxboard:	122	122	123	143	143	143
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	122	122	123	143	143	143
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:	32	29	29	29	29	29
4.33.1 Paper, n.e.s.	18	15	15	15	15	15
4.33.2 Paperboard, n.e.s.	14	14	14	14	14	14

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

[illegible]

15 Country: SUDAN

	1975	1976	1977	1978	1979	1980
	----- 1,000 metric tons per year -----					
4 Paper and Paperboard, total:	4	6	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:	4	6	8	8	8	8
4.31 Household and sanitary paper	-	-	-	-	-	-
4.32 Wrapping and packaging paper and paperboard, total:	4	6	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.:	4	6	8	8	8	8
4.32.51 Paper	2	4	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.	-	-	-	-	-	-

16 Country: SWAZILAND

	1975	1976	1977	1978	1979	1980
	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.	-	-	-	-	-	-

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

17 Country: TUNISIA

[illegible]

17 Country: TUNISIA

	1975	1976	1977	1978	1979	1980
	1,000 metric tons per year					
4 Paper and Paperboard, total:	22	22	23	23	25	25
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, total:	22	22	23	23	25	25
4.21 Coated:	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated:	22	22	23	23	25	25
4.22.1 Wood containing	12	12	12	12	12	12
4.22.2 Wood free	10	10	11	11	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.	-	-	-	-	-	-

18 Country: UGANDA

1,000 metric tons per year									
	1975	1976	1977	1978	1979	1980			
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.	-	-	-	-	-	-			

19 Country: ZAIRE

19 Country: ZAIRE

	1975	1976	1977	1978	1979	1980
	----- 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.	-	-	-	-	-	-

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

	1975		1976		1977		1978		1979		1980	
	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 -----												
20 Country: CANADA (a)												
1 Wood pulp for making paper and paperboard, total:	21,656	6,729	21,963	6,833	22,357	6,941	22,694	7,146	22,694	7,146	22,694	7,146
1.1 Mechanical	8,709	261	8,866	276	9,111	284	9,218	293	9,218	293	9,218	293
1.11 of which: non-coniferous	..	..	..	..	..	..	..	..	..	..	..	..
1.2 Chemi-mechanical and semi-chemical	397	-	430	-	466	-	483	-	483	-	483	-
1.21 of which: non-coniferous	397	-	430	-	466	-	483	-	483	-	483	-
1.3 Chemical, total:	12,550	6,468	12,667	6,557	12,780	6,657	12,993	6,853	12,993	6,853	12,993	6,853
1.31 Unbleached sulphite	2,150	194	2,179	210	2,193	209	2,193	209	2,193	209	2,193	209
1.31.1 of which: non-coniferous	..	..	..	..	..	..	..	..	..	..	..	..
1.32 Bleached and semibleached sulphite	827	541	865	525	855	501	874	516	874	516	874	516
1.32.1 of which: non-coniferous	..	..	..	..	..	..	..	..	..	..	..	..
1.33 Unbleached sulphate and soda	2,155	329	2,200	330	2,263	335	2,312	371	2,312	371	2,312	371
1.33.1 of which: non-coniferous	..	..	..	..	..	..	..	..	..	..	..	..
1.34 Bleached and semibleached sulphate and soda	7,418	5,404	7,423	5,492	7,469	5,612	7,614	5,757	7,614	5,757	7,614	5,757
1.34.1 of which: non-coniferous	871	613	875	633	896	657	960	720	960	720	960	720
2 Other fibre pulp for making paper and paperboard, total:	-	-	-	-	-	-	-	-	-	-	-	-
2.1 Straw	-	-	-	-	-	-	-	-	-	-	-	-
2.2 Bayasse	-	-	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	-	-	-	-	-	-	-	-	-	-	-	-
3 Dissolving pulp (wood and other fibrous raw materials)	397	397	464	464	519	519	556	556	556	556	556	556
3.1 of which: non-coniferous	..	..	..	..	..	..	..	..	..	..	..	..

(a) As data for 1979 and 1980 are not available, 1978 figures have been used.

20 Country: CANADA

	1975	1976	1977	1978	1979	1980
	----- 1,000 metric tons per year -----					
4 Paper and Paperboard, total:	14,218	14,671	15,017	15,224	15,224	15,224
4.1 Newsprint	9,225	9,375	9,440	9,530	9,530	9,530
4.2 Other printing and writing paper, total:	1,220	1,298	1,337	1,353	1,353	1,353
4.21 Coated:	..	..	..	..	..	..
4.21.1 Wood containing	..	..	..	..	..	..
4.21.2 Wood free	..	..	..	..	..	..
4.22 Uncoated:	1,220	1,298	1,337	1,353	1,353	1,353
4.22.1 Wood containing	453	521	544	544	544	544
4.22.2 Wood free	767	777	793	809	809	809
4.3 Other paper and paperboard, total:	3,773	3,998	4,240	4,341	4,341	4,341
4.31 Household and sanitary paper	331	338	338	338	338	338
4.32 Wrapping and packaging paper and paperboard, total:	3,202	3,415	3,654	3,755	3,755	3,755
4.32.1 Linerboard:	1,302	1,402	1,520	1,561	1,561	1,561
4.32.11 Kraft liner:	1,184	1,229	1,279	1,302	1,302	1,302
4.32.11.1 Unbleached	..	..	..	..	..	..
4.32.11.2 Bleached	..	..	..	..	..	..
4.32.12 Other linerboard	118	173	241	259	259	259
4.32.2 Fluting medium:	476	519	577	600	600	600
4.32.21 Semi-chemical	403	427	464	480	480	480
4.32.22 Other fluting medium	73	92	113	120	120	120
4.32.3 Kraft wrapping and packaging paper:	644	645	645	650	650	650
4.32.31 Sack kraft	485	485	485	490	490	490
4.32.32 Other kraft wrapping and packaging paper	159	160	160	160	160	160
4.32.4 Folding boxboard:	390	430	467	495	495	495
4.32.41 Solid bleached board	100	106	127	138	138	138
4.32.42 Other folding boxboard	290	324	340	357	357	357
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	390	419	445	449	449	449
4.32.51 Paper	18	20	20	20	20	20
4.32.52 Paperboard	372	399	425	429	429	429
4.33 Other paper and paperboard, n.e.s., total:	240	245	248	248	248	248
4.33.1 Paper, n.e.s.	25	25	25	25	25	25
4.33.2 Paperboard, n.e.s.	215	220	223	223	223	223

(a) As data for 1979 and 1980 are not available, 1978 figures have been used.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

[illegible]

21 Country: COSTA RICA

----- 1,000 metric tons per year -----									
	1975	1976	1977	1978	1979	1980			
4 Paper and Paperboard, total:	7	7	7	7	7	7			
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	7	7	7	7			
4.31 Household and sanitary paper	5	5	5	5	5	5			
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:	2	2	2	2	2	2			
4.32.31 Sack kraft	2	2	2	2	2	2			
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.	-	-	-	-	-	-			

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

[illegible]

22 Country: CUBA

	1975	1976	1977	1978	1979	1980
	----- 1,000 metric tons per year -----					
4 Paper and Paperboard, total:	163	163	177	182	184	184
4.1 Newsprint	-	-	8	11	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	134	136	137	137
4.31 Household and sanitary paper	6	6	12	14	15	15
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

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

[illegible]

23 Country: DOMINICAN REPUBLIC

	1975	1976	1977	1978	1979	1980
	----- 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:	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 Paper, n.e.s.	2	2	2	2	2	2
4.33.2 Paperboard, n.e.s.	2	2	2	2	2	2

24 Country: EL SALVADOR

1,000 metric tons per year									
	1975	1976	1977	1978	1979	1980			
4 Paper and Paperboard, total:	16	16	16	16	16	16			
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			
4.31 Household and sanitary paper	6	6	6	6	6	6			
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:	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.:	8	8	8	8	8	8			
4.32.51 Paper	-	-	-	-	-	-			
4.32.52 Paperboard	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.	-	-	-	-	-	-			

25 Country: GUATEMALA

	1975	1976	1977	1978	1979	1980
	--- 1,000 metric tons per year ---					
4 Paper and Paperboard, total:	46	46	46	46	46	46
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, total:	18	18	18	18	18	18
4.21 Coated:	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated:	18	18	18	18	18	18
4.22.1 Wood containing	..	..	..	..	..	..
4.22.2 Wood free	..	..	..	..	..	..
4.3 Other paper and paperboard, total:	28	28	28	28	28	28
4.31 Household and sanitary paper	4	4	4	4	4	4
4.32 Wrapping and packaging paper and paperboard, total:	24	24	24	24	24	24
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:	13	13	13	13	13	13
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	13	13	13	13	13	13
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	11	11	11	11	11	11
4.32.51 Paper	11	11	11	11	11	11
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

[illegible]

26 Country: JAMAICA

	1975	1976	1977	1978	1979	1980
	----- 1,000 metric tons per year -----					
4 Paper and Paperboard, total:	17	17	17	17	17	17
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:	17	17	17	17	17	17
4.31 Household and sanitary paper	5	5	5	5	5	5
4.32 Wrapping and packaging paper and paperboard, total:	12	12	12	12	12	12
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:	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:	-	-	-	-	-	-
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	4	4	4	4
4.32.51 Paper	-	-	-	-	-	-
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.	-	-	-	-	-	-

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

27 Country: MEXICO

27 Country: MEXICO									
1975		1976		1977		1978		1979	1980
Total capacity	of which market pulp	Total capacity	of which market pulp	Total capacity	of which market pulp	Total capacity	of which market pulp	Total capacity	Total capacity
----- 1,000 metric tons (air dry) per year -----									
1 Wood pulp for making paper and paperboard, total:									
1.1 Mechanical	479	154	554	154	579	154	829	1,064	1,064
1.11 of which: non-coniferous	66	-	66	-	66	-	66	66	66
1.2 Chemi-mechanical and semi-chemical	-	-	-	-	-	-	-	-	-
1.21 of which: non-coniferous	-	-	-	-	-	-	-	-	-
1.3 Chemical, total:	413	154	488	154	513	154	763	998	998
1.31 Unbleached sulphite	46	-	46	-	46	-	46	46	46
1.31.1 of which: non-coniferous	-	-	-	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	12	-	12	-	12	-	12	12	12
1.32.1 of which: non-coniferous	-	-	-	-	-	-	-	-	-
1.33 Unbleached sulphate and soda	234	74	234	74	259	74	429	664	664
1.33.1 of which: non-coniferous	-	-	-	-	-	-	30	65	65
1.34 Bleached and semibleached sulphate and soda	121	80	196	80	196	80	276	276	276
1.34.1 of which: non-coniferous	3	-	25	-	25	-	25	25	25

2	Other fibre pulp for making paper and paperboard, total:	269	70	290	84	385	129	560	129	635	635
2.1	Straw	35	12	44	19	44	19	44	19	44	44
2.2	Bagasse	216	48	228	55	323	100	498	100	573	573
2.3	Bamboo	-	-	-	-	-	-	-	-	-	-
2.4	Other (reeds, esparto, rags, etc.)	18	10	18	10	18	10	18	10	18	18

3	Dissolving pulp (wood and other fibrous raw materials)	17	-	17	-	17	-	17	17
	3.1 of which: non-coniferous		-	-	-	-	-	-	-

27 Country: MEXICO

27 Country: MEXICO											
1,000 metric tons per year						1975	1976	1977	1978	1979	1980

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.											

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

28 Country: PANAMA

28 Country: PANAMA

----- 1,000 metric tons per year -----									
	1975	1976	1977	1978	1979	1980			
4 Paper and Paperboard, total:	28	28	29	30	31	32			
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	28	29	30	31	32			
4.31 Household and sanitary paper	5	5	6	7	8	9			
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			
4.32.51 Paper	-	-	-	-	-	-			
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.	-	-	-	-	-	-			

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

[illegible]

29 Country: PUERTO RICO

	1975	1976	1977	1978	1979	1980
	1,000 metric tons per year					
4 Paper and Paperboard, total:	63	68	68	68	68	68
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:	63	68	68	68	68	68
4.31 Household and sanitary paper	9	9	9	9	9	9
4.32 Wrapping and packaging paper and paperboard, total:	54	59	59	59	59	59
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	59	59	59	59	59
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.	-	-	-	-	-	-

30 Country: UNITED STATES

	1975	1976	1977	1978	1979	1980
	----- 1,000 metric tons per year -----					
4 Paper and Paperboard, total:	57,172	59,170	60,235	61,132	62,271	63,238
4.1 Newsprint	3,480	3,548	3,622	3,669	3,905	4,050
4.2 Other printing and writing paper, total:	12,635	12,992	13,291	13,598	13,827	13,971
4.21 Coated:	3,750	3,884	4,004	4,100	4,122	4,122
4.21.1 Wood containing	1,987	2,058	2,122	2,173	2,185	2,185
4.21.2 Wood free	1,763	1,826	1,882	1,927	1,937	1,937
4.22 Uncoated:	8,885	9,108	9,287	9,498	9,705	9,849
4.22.1 Wood containing	1,180	1,189	1,193	1,193	1,193	1,193
4.22.2 Wood free	7,705	7,919	8,094	8,305	8,512	8,656
4.3 Other paper and paperboard, total:	41,057	42,630	43,322	43,865	44,539	45,217
4.31 Household and sanitary paper	4,007	4,100	4,189	4,227	4,276	4,276
4.32 Wrapping and packaging paper and paperboard, total:	32,804	34,180	34,685	35,109	35,698	36,376
4.32.1 Linerboard:	12,591	13,301	13,493	13,615	14,049	14,421
4.32.11 Kraft liner:	12,152	12,854	13,046	13,168	13,602	13,974
4.32.11.1 Unbleached	12,059	12,761	12,953	13,075	13,509	13,881
4.32.11.2 Bleached	93	93	93	93	93	93
4.32.12 Other linerboard	439	447	447	447	447	447
4.32.2 Fluting medium:	5,373	5,745	5,903	5,951	5,998	6,185
4.32.21 Semi-chemical	4,051	4,224	4,361	4,393	4,432	4,619
4.32.22 Other fluting medium	1,322	1,521	1,542	1,558	1,566	1,566
4.32.3 Kraft wrapping and packaging paper:	4,971	4,999	4,999	5,012	4,984	5,036
4.32.31 Sack kraft	1,046	1,052	1,052	1,055	1,051	1,066
4.32.32 Other kraft wrapping and packaging paper	3,925	3,947	3,947	3,957	3,933	3,970
4.32.4 Folding boxboard:	6,248	6,413	6,499	6,706	6,834	6,901
4.32.41 Solid bleached board	3,444	3,568	3,629	3,799	3,902	3,959
4.32.42 Other folding boxboard	2,804	2,845	2,870	2,907	2,932	2,942
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	3,621	3,722	3,791	3,825	3,833	3,833
4.32.51 Paper	234	236	236	236	237	237
4.32.52 Paperboard	3,387	3,486	3,555	3,589	3,596	3,596
4.33 Other paper and paperboard, n.e.s., total:	4,246	4,350	4,448	4,529	4,565	4,565
4.33.1 Paper, n.e.s.	1,019	1,052	1,104	1,148	1,152	1,152
4.33.2 Paperboard, n.e.s.	3,227	3,298	3,344	3,381	3,413	3,413

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

[illegible]

31 Country: ARGENTINA

	1975	1976	1977	1978	1979	1980
	1,000 metric tons per year					
4 Paper and Paperboard, total:	900	935	1,035	1,145	1,215	1,315
4.1 Newsprint	-	-	30	30	105	150
4.2 Other printing and writing paper, total:	180	185	205	230	240	260
4.21 Coated:	40	40	45	55	60	70
4.21.1 Wood containing	32	32	35	40	45	55
4.21.2 Wood free	8	8	10	15	15	15
4.22 Uncoated:	140	145	160	175	180	190
4.22.1 Wood containing	10	10	15	15	15	15
4.22.2 Wood free	130	135	145	160	165	175
4.3 Other paper and paperboard, total:	720	750	800	835	870	905
4.31 Household and sanitary paper	50	50	50	55	55	55
4.32 Wrapping and packaging paper and paperboard, total:	595	620	665	690	720	750
4.32.1 Linerboard:	100	110	125	130	135	140
4.32.11 Kraft liner:	30	35	45	50	55	60
4.32.11.1 Unbleached	25	30	40	45	45	50
4.32.11.2 Bleached	5	5	5	5	10	10
4.32.12 Other linerboard	70	75	80	80	80	80
4.32.2 Fluting medium:	70	75	80	85	90	95
4.32.21 Semi-chemical	20	20	25	25	25	25
4.32.22 Other fluting medium	50	55	55	60	65	70
4.32.3 Kraft wrapping and packaging paper:	105	110	120	125	135	145
4.32.31 Sack kraft	80	85	90	95	100	105
4.32.32 Other kraft wrapping and packaging paper	25	25	30	30	35	40
4.32.4 Folding boxboard:	50	50	55	60	65	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.:	270	275	285	290	295	300
4.32.51 Paper	90	90	95	95	95	95
4.32.52 Paperboard	180	185	190	195	200	205
4.33 Other paper and paperboard, n.e.s., total:	75	30	85	90	95	100
4.33.1 Paper, n.e.s.	40	45	45	50	50	55
4.33.2 Paperboard, n.e.s.	35	35	40	40	45	45

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

[illegible]

32 Country: BOLIVIA

	1975	1976	1977	1978	1979	1980
	1,000 metric tons per year					
4 Paper and Paperboard, total:	1	1	1	12	15	16
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	12	15	16
4.31 Household and sanitary paper	-	-	-	-	-	-
4.32 Wrapping and packaging paper and paperboard, total:	1	1	1	12	15	16
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	12	15	16
4.32.51 Paper	-	-	-	-	-	-
4.32.52 Paperboard	1	1	1	12	15	16
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

33 Country: BRAZIL

[illegible]

	1975	1976	1977	1978	1979	1980
	----- 1,000 metric tons per year -----					
4 Paper and Paperboard, total:	2,460	2,766	3,065	3,282	3,754	4,142
4.1 Newsprint	127	127	133	134	250	283
4.2 Other printing and writing paper, total:	527	540	615	635	684	741
4.21 Coated:	37	37	40	40	40	45
4.21.1 Wood containing	4	4	4	4	4	5
4.21.2 Wood free	33	33	36	36	36	40
4.22 Uncoated:	490	503	575	595	644	696
4.22.1 Wood containing	47	48	56	58	62	68
4.22.2 Wood free	443	455	519	537	582	628
4.3 Other paper and paperboard, total:	1,806	2,099	2,317	2,513	2,820	3,118
4.31 Household and sanitary paper	165	220	253	268	273	287
4.32 Wrapping and packaging paper and paperboard, total:	1,449	1,684	1,832	2,013	2,315	2,599
4.32.1 Linerboard:	293	326	366	437	652	791
4.32.11 Kraft liner:	211	231	267	336	551	690
4.32.11.1 Unbleached	211	231	267	336	551	690
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	82	95	99	101	101	101
4.32.2 Fluting medium:	241	300	325	334	335	358
4.32.21 Semi-chemical	..	..	..	..	..	..
4.32.22 Other fluting medium	..	..	..	..	..	..
4.32.3 Kraft wrapping and packaging paper:	452	535	592	676	711	811
4.32.31 Sack kraft	248	282	301	322	328	360
4.32.32 Other kraft wrapping and packaging paper	204	253	291	354	383	451
4.32.4 Folding boxboard:	219	252	261	261	307	307
4.32.41 Solid bleached board	96	96	96	96	96	96
4.32.42 Other folding boxboard	123	156	165	165	211	211
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	244	271	288	305	310	332
4.32.51 Paper	244	271	288	305	310	332
4.32.52 Paperboard	-	-	-	-	-	-
4.33 Other paper and paperboard, n.e.s., total:	192	195	232	232	232	232
4.33.1 Paper, n.e.s.	81	84	86	86	86	86
4.33.2 Paperboard, n.e.s.	111	111	146	146	146	146

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

[illegible]

34 Country: CHILE

	1975	1976	1977	1978	1979	1980
	----- 1,000 metric tons per year -----					
4 Paper and Paperboard, total:	279	286	292	292	303	303
4.1 Newsprint	118	125	125	125	125	125
4.2 Other printing and writing paper, total:	57	57	59	53	58	53
4.21 Coated:	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated:	57	57	59	53	58	53
4.22.1 Wood containing	6	6	6	7	7	8
4.22.2 Wood free	51	51	53	46	51	45
4.3 Other paper and paperboard, total:	104	104	108	114	120	125
4.31 Household and sanitary paper	15	15	16	17	18	19
4.32 Wrapping and packaging paper and paperboard, total:	88	88	91	96	101	105
4.32.1 Linerboard:	15	15	16	16	17	18
4.32.11 Kraft liner:	14	14	15	15	16	17
4.32.11.1 Unbleached	14	14	15	15	16	17
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	1	1	1	1	1	1
4.32.2 Fluting medium:	13	13	13	14	15	15
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	13	13	13	14	15	15
4.32.3 Kraft wrapping and packaging paper:	33	33	35	38	40	42
4.32.31 Sack kraft	16	16	17	18	19	20
4.32.32 Other kraft wrapping and packaging paper	17	17	18	20	21	22
4.32.4 Folding boxboard:	17	17	17	18	19	20
4.32.41 Solid bleached board	2	2	2	2	2	2
4.32.42 Other folding boxboard	15	15	15	16	17	18
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	10	10	10	10	10	10
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

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

[illegible]

35 Country: COLOMBIA

	1975	1976	1977	1978	1979	1980
	----- 1,000 metric tons per year -----					
4 Paper and Paperboard, total:	342	365	371	394	411	435
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, total:	62	70	77	84	93	101
4.21 Coated:	3	6	7	8	9	10
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	3	6	7	8	9	10
4.22 Uncoated:	59	64	70	76	84	91
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	59	64	70	76	84	91
4.3 Other paper and paperboard, total:	280	295	294	310	318	334
4.31 Household and sanitary paper	21	25	28	45	48	50
4.32 Wrapping and packaging paper and paperboard, total:	246	259	254	254	259	278
4.32.1 Linerboard:	76	82	86	86	91	98
4.32.11 Kraft liner:	76	82	86	86	91	98
4.32.11.1 Unbleached	76	82	86	86	91	98
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium:	47	51	53	55	57	62
4.32.21 Semi-chemical	47	51	53	55	57	62
4.32.22 Other fluting medium	-	-	-	-	-	-
4.32.3 Kraft wrapping and packaging paper:	64	63	60	59	55	59
4.32.31 Sack kraft	40	42	44	46	48	52
4.32.32 Other kraft wrapping and packaging paper	24	21	16	13	7	7
4.32.4 Folding boxboard:	39	42	45	49	49	51
4.32.41 Solid bleached board	3	3	3	4	4	4
4.32.42 Other folding boxboard	36	39	42	45	45	47
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	20	21	10	5	7	8
4.32.51 Paper	10	10	5	5	7	8
4.32.52 Paperboard	10	11	5	-	-	-
4.33 Other paper and paperboard, n.e.s., total:	13	11	12	11	11	6
4.33.1 Paper, n.e.s.	6	4	4	3	3	3
4.33.2 Paperboard, n.e.s.	7	7	8	8	8	3

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

[illegible]

36 Country: ECUADOR

	1975	1976	1977	1978	1979	1980
	1,000 metric tons per year					
4 Paper and Paperboard, total:	25	25	46	52	55	55
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, total:	12	12	33	39	42	42
4.21 Coated:	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated:	12	12	33	39	42	42
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	12	12	33	39	42	42
4.3 Other paper and paperboard, total:	13	13	13	13	13	13
4.31 Household and sanitary paper	2	2	2	2	2	2
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:	5	5	5	5	5	5
4.32.21 Semi-chemical	..	..	..	..	..	..
4.32.22 Other fluting medium	..	..	..	..	..	..
4.32.3 Kraft wrapping and packaging paper:	3	3	3	3	3	3
4.32.31 Sack kraft	2	2	2	2	2	2
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	3	3	3	3	3	3
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

37 Country: PARAGUAY

[illegible]

37 Country: PARAGUAY

	1975	1976	1977	1978	1979	1980
	1,000 metric tons per year					
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	..	..	..	..	..	..
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

[illegible]

38 Country: PERU

	1975	1976	1977	1978	1979	1980
	----- 1,000 metric tons per year -----					
4 Paper and Paperboard, total:	238	238	238	238	238	341
4.1 Newsprint	-	-	-	-	-	78
4.2 Other printing and writing paper, total:	37	37	37	37	37	62
4.21 Coated:	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated:	37	37	37	37	37	62
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	37	37	37	37	37	62
4.3 Other paper and paperboard, total:	201	201	201	201	201	201
4.31 Household and sanitary paper	21	21	21	21	21	21
4.32 Wrapping and packaging paper and paperboard, total:	177	177	177	177	177	177
4.32.1 Linerboard:	30	30	30	30	30	30
4.32.11 Kraft liner:	30	30	30	30	30	30
4.32.11.1 Unbleached	..	..	..	..	..	..
4.32.11.2 Bleached	..	..	..	..	..	..
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium:	55	55	55	55	55	55
4.32.21 Semi-chemical	..	..	..	..	..	..
4.32.22 Other fluting medium	..	..	..	..	..	..
4.32.3 Kraft wrapping and packaging paper:	54	54	54	54	54	54
4.32.31 Sack kraft	45	45	45	45	45	45
4.32.32 Other kraft wrapping and packaging paper	9	9	9	9	9	9
4.32.4 Folding boxboard:	18	18	18	18	18	18
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	20	20	20	20	20
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.	..	..	..	..	..	..

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

[illegible]

39 Country: URUGUAY

	1975	1976	1977	1978	1979	1980
	----- 1,000 metric tons per year -----					
4 Paper and Paperboard, total:	56	56	56	56	56	56
4.1 Newsprint	-	-	-	-	-	-
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	5	5	5	5	5	5
4.22.2 Wood free	14	14	14	14	14	14
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:	5	5	5	5	5	5
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	..	..	..	..	..	..
4.32.3 Kraft wrapping and packaging paper:	2	2	2	2	2	2
4.32.31 Sack kraft	2	2	2	2	2	2
4.32.32 Other kraft wrapping and packaging paper	-	-	-	-	-	-
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.:	10	10	10	10	10	10
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.	..	..	..	..	..	..

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

40 Country: VENEZUELA

[illegible]

40 Country: VENEZUELA

	1975	1976	1977	1978	1979	1980
	----- 1,000 metric tons per year -----					
4 Paper and Paperboard, total:	495	662	715	741	741	741
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, total:	55	85	95	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:	440	577	620	641	641	641
4.31 Household and sanitary paper	66	86	96	99	99	99
4.32 Wrapping and packaging paper and paperboard, total:	369	486	519	537	537	537
4.32.1 Linerboard:	81	131	146	153	153	153
4.32.11 Kraft liner:	81	116	126	131	131	131
4.32.11.1 Unbleached	..	..	..	..	..	..
4.32.11.2 Bleached	..	..	..	..	..	..
4.32.12 Other linerboard	-	15	20	22	22	22
4.32.2 Fluting medium:	45	60	64	66	66	66
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	45	60	64	66	66	66
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	146	154	154	154
4.32.41 Solid bleached board	8	8	8	8	8	8
4.32.42 Other folding boxboard	81	126	138	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

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

[illegible]

41 Country: BANGLADESH

	1975	1976	1977	1978	1979	1980
	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.	-	-	-	-	-	-

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

42 Country: BURMA

[illegible]

42 Country: BURMA

	1975	1976	1977	1978	1979	1980
	--- 1,000 metric tons per year ---					
4 Paper and Paperboard, total:	13	13	13	26	40	44
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, total:	12	12	12	22	32	35
4.21 Coated:	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated:	12	12	12	22	32	35
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	12	12	12	22	32	35
4.3 Other paper and paperboard, total:	1	1	1	4	8	9
4.31 Household and sanitary paper	-	-	-	-	-	-
4.32 Wrapping and packaging paper and paperboard, total:	1	1	1	4	8	9
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.	-	-	-	-	-	-

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

43 Country: CAMBODIA

[illegible]

43 Country: CAMBODIA

----- 1,000 metric tons per year -----									
	1975	1976	1977	1978	1979	1980			
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.	-	-	-	-	-	-			

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

	1975		1976		1977		1978		1979		1980	
	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 -----												
44 Country: CHINA (a)												
1 Wood pulp for making paper and paperboard, total:	2,060	..	2,170	..	2,280	..	2,390	..	2,500	..	2,610	..
1.1 Mechanical	760	..	800	..	840	..	880	..	920	..	960	..
1.11 of which: non-coniferous	..	..	..	..	..	..	..	..	..	..	..	..
1.2 Chemi-mechanical and semi-chemical	..	..	..	..	..	..	..	..	..	..	..	..
1.21 of which: non-coniferous	..	..	..	..	..	..	..	..	..	..	..	..
1.3 Chemical, total:	1,300	..	1,370	..	1,440	..	1,510	..	1,580	..	1,650	..
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:	4,610	..	4,770	..	4,930	..	5,090	..	5,250	..	5,410	..
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)	40	-	40	-	40	-	40	-	40	-	40	-
3.1 of which: non-coniferous	40	-	40	-	40	-	40	-	40	-	40	-

(a) Secretariat estimate.

44 Country: CHINA (a)		1975	1976	1977	1978	1979	1980
		1,000 metric tons per year					
4	Paper and Paperboard, total:	7,750	8,000	8,250	8,500	8,750	9,000
4.1	Newsprint	830	860	890	920	950	980
4.2	Other printing and writing paper, total:	2,070	2,140	2,210	2,280	2,350	2,420
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:	4,850	5,000	5,150	5,300	5,450	5,600
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.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

45 Country: CYPRUS

[illegible][illegible][illegible]

45 Country: CYPRUS

	1975	1976	1977	1978	1979	1980
	----- 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	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	-	-	-	-	-	-
4.32.32 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.	-	-	-	-	-	-

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

46 Country: HONG KONG

[illegible]

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	-	-	-	-	-	-	-	-

46 Country: HONG KONG

	1975	1976	1977	1978	1979	1980
	----- 1,000 metric tons per year -----					
4 Paper and Paperboard, total:	9	10	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:	9	10	11	11	11	11
4.31 Household and sanitary paper	-	-	-	-	-	-
4.32 Wrapping and packaging paper and paperboard, total:	9	10	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:	9	10	11	11	11	11
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	9	10	11	11	11	11
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.	-	-	-	-	-	-

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

	1975		1976		1977		1978		1979	1980
	Total capacity	of which market pulp	Total capacity	of which market pulp	Total capacity	of which market pulp	Total capacity	of which market pulp	Total capacity	Total capacity
----- 1,000 metric tons (air dry) per year -----										
47 Country: INDIA										
1 Wood pulp for making paper and paperboard, total:	300	-	311	-	329	-	368	-	447	512
1.1 Mechanical	20	-	23	-	25	-	25	-	25	59
1.11 of which: non-coniferous	20	-	23	-	25	-	25	-	25	25
1.2 Chemi-mechanical and semi-chemical	20	-	23	-	25	-	25	-	64	75
1.21 of which: non-coniferous	20	-	23	-	25	-	25	-	64	75
1.3 Chemical, total:	260	-	265	-	279	-	318	-	358	378
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	130	-	132	-	139	-	159	-	179	189
1.33.1 of which: non-coniferous	130	-	132	-	139	-	159	-	179	189
1.34 Bleached and semibleached sulphate and soda	130	-	133	-	140	-	159	-	179	189
1.34.1 of which: non-coniferous	130	-	133	-	140	-	159	-	179	189
2 Other fibre pulp for making paper and paperboard, total:	826	25	852	25	914	25	1,031	25	1,184	1,373
2.1 Straw	30	-	30	-	37	-	46	-	63	96
2.2 Bagasse	15	-	15	-	15	-	15	-	15	15
2.3 Bamboo	626	25	650	25	691	25	784	25	894	1,000
2.4 Other (reeds, esparto, rags, etc.)	155	-	157	-	171	-	186	-	212	262
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

47 Country: INDIA

	1975	1976	1977	1978	1979	1980
	----- 1,000 metric tons per year -----					
4 Paper and Paperboard, total:	1,101	1,139	1,217	1,373	1,607	1,860
4.1 Newsprint	61	71	75	75	131	189
4.2 Other printing and writing paper, total:	572	587	628	714	812	919
4.21 Coated:	30	30	30	30	30	30
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	30	30	30	30	30	30
4.22 Uncoated:	542	557	598	684	782	889
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	542	557	598	684	782	889
4.3 Other paper and paperboard, total:	468	481	514	584	664	752
4.31 Household and sanitary paper	5	10	10	10	10	10
4.32 Wrapping and packaging paper and paperboard, total:	463	471	504	574	654	742
4.32.1 Linerboard:	20	20	30	30	40	50
4.32.11 Kraft liner:	20	20	30	30	40	50
4.32.11.1 Unbleached	20	20	30	30	40	50
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium:	-	-	-	10	30	40
4.32.21 Semi-chemical	-	-	-	10	30	40
4.32.22 Other fluting medium	-	-	-	-	-	-
4.32.3 Kraft wrapping and packaging paper:	233	241	264	314	334	392
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping and packaging paper	233	241	264	314	334	392
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	210	220	250	260
4.32.51 Paper	-	-	-	-	-	-
4.32.52 Paperboard	210	210	210	220	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.	-	-	-	-	-	-

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

[illegible]

	1975	1976	1977	1978	1979	1980
4 Paper and Paperboard, total:	53	61	61	67	78	84
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, total:	47	54	54	60	70	75
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	7	7	7	8	9
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:	6	7	7	7	8	9
4.33.1 Paper, n.e.s.	6	7	7	7	8	9
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

49 Country: IRAN						
	1975	1976	1977	1978	1979	1980
	----- 1,000 metric tons per year -----					
4 Paper and Paperboard, total:	101	139	139	214	244	384
4.1 Newsprint	-	-	-	-	-	25
4.2 Other printing and writing paper, total:	52	90	90	90	90	110
4.21 Coated:	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated:	52	90	90	90	90	110
4.22.1 Wood containing	-	-	-	-	-	20
4.22.2 Wood free	52	90	90	90	90	90
4.3 Other paper and paperboard, total:	49	49	49	124	154	249
4.31 Household and sanitary paper	9	9	9	9	9	9
4.32 Wrapping and packaging paper and paperboard, total:	40	40	40	115	145	240
4.32.1 Linerboard:	-	-	-	30	42	70
4.32.11 Kraft liner:	-	-	-	30	42	70
4.32.11.1 Unbleached	-	-	-	30	42	70
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium:	-	-	-	20	28	62
4.32.21 Semi-chemical	-	-	-	-	-	42
4.32.22 Other fluting medium	-	-	-	20	28	20
4.32.3 Kraft wrapping and packaging paper:	25	25	25	43	50	57
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping and packaging paper	25	25	25	43	50	57
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.:	15	15	15	22	25	51
4.32.51 Paper	-	-	-	-	-	-
4.32.52 Paperboard	15	15	15	22	25	51
4.33 Other paper and paperboard, n.e.s., total:	-	-	-	-	-	-
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

50 Country: IRAQ

	1975	1976	1977	1978	1979	1980
	----- 1,000 metric tons per year -----					
4 Paper and Paperboard, total:	22	30	49	59	71	90
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, total:	8	10	23	30	36	39
4.21 Coated:	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated:	8	10	23	30	36	39
4.22.1 Wood containing	..	..	..	..	..	..
4.22.2 Wood free	..	..	..	..	..	..
4.3 Other paper and paperboard, total:	14	20	26	29	35	51
4.31 Household and sanitary paper	-	-	2	3	4	5
4.32 Wrapping and packaging paper and paperboard, total:	14	20	24	26	31	46
4.32.1 Linerboard:	6	10	12	13	15	15
4.32.11 Kraft liner:	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	6	10	12	13	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	1	2	12
4.32.31 Sack kraft	..	..	..	..	..	..
4.32.32 Other kraft wrapping and packaging paper	..	..	..	..	..	..
4.32.4 Folding boxboard:	5	7	8	9	11	16
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	5	7	8	9	11	16
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	2	2	3	3	3	3
4.32.51 Paper	-	-	-	-	-	-
4.32.52 Paperboard	2	2	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.	-	-	-	-	-	-

51 Country: ISRAEL

[illegible]

S1 Country: ISRAEL		1975	1976	1977	1978	1979	1980
		1,000 metric tons per year					
4	Paper and Paperboard, total:	96	123	131	133	136	138
4.1	Newsprint	7	15	15	15	15	15
4.2	Other printing and writing paper, total:	47	50	58	59	59	60
4.21	Coated:	-	-	-	-	-	-
4.21.1	Wood containing	-	-	-	-	-	-
4.21.2	Wood free	-	-	-	-	-	-
4.22	Uncoated:	47	50	58	59	59	60
4.22.1	Wood containing	7	6	5	5	4	4
4.22.2	Wood free	40	44	53	54	55	56
4.3	Other paper and paperboard, total:	42	58	58	59	62	63
4.31	Household and sanitary paper	10	10	10	11	12	13
4.32	Wrapping and packaging paper and paperboard, total:	28	44	44	44	46	46
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:	-	10	10	10	11	11
4.32.21	Semi-chemical	-	-	-	-	-	-
4.32.22	Other fluting medium	-	10	10	10	11	11
4.32.3	Kraft wrapping and packaging paper:	10	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	7	7	7	7	7	7
4.32.4	Folding boxboard:	12	17	17	17	18	18
4.32.41	Solid bleached board	-	-	-	-	-	-
4.32.42	Other folding boxboard	12	17	17	17	18	18
4.32.5	Other wrapping and packaging paper and paperboard, n.e.s.:	6	7	7	7	7	7
4.32.51	Paper	6	7	7	7	7	7
4.32.52	Paperboard	-	-	-	-	-	-
4.33	Other paper and paperboard, n.e.s., total:	4	4	4	4	4	4
4.33.1	Paper, n.e.s.	-	-	-	-	-	-
4.33.2	Paperboard, n.e.s.	4	4	4	4	4	4

[illegible]

52 Country: JAPAN

	1975	1976	1977	1978	1979	1980
	----- 1,000 metric tons per year -----					
4 Paper and Paperboard, total:	19,844	20,460	21,385	22,403	22,946	23,290
4.1 Newsprint	2,446	2,470	2,637	3,091	3,277	3,335
4.2 Other printing and writing paper, total:	3,392	3,523	3,640	3,862	4,056	4,101
4.21 Coated:	1,037	1,059	1,069	1,080	1,091	1,102
4.21.1 Wood containing	..	..	..	..	..	..
4.21.2 Wood free	..	..	..	..	..	..
4.22 Uncoated:	2,355	2,464	2,571	2,782	2,965	2,999
4.22.1 Wood containing	1,042	1,102	1,121	1,134	1,146	1,157
4.22.2 Wood free	1,313	1,362	1,450	1,648	1,819	1,842
4.3 Other paper and paperboard, total:	14,006	14,467	15,108	15,450	15,613	15,854
4.31 Household and sanitary paper	828	842	851	859	868	877
4.32 Wrapping and packaging paper and paperboard, total:	10,860	11,231	11,796	12,043	12,172	12,378
4.32.1 Linerboard:	4,384	4,554	4,898	5,001	5,051	5,186
4.32.11 Kraft liner:	1,887	1,906	1,925	1,944	1,964	1,983
4.32.11.1 Unbleached	..	..	..	..	..	..
4.32.11.2 Bleached	..	..	..	..	..	..
4.32.12 Other linerboard	2,497	2,648	2,973	3,057	3,087	3,203
4.32.2 Fluting medium:	2,740	2,870	3,008	3,099	3,130	3,162
4.32.21 Semi-chemical	2,178	2,286	2,414	2,499	2,524	2,550
4.32.22 Other fluting medium	562	584	594	600	606	612
4.32.3 Kraft wrapping and packaging paper:	1,497	1,512	1,565	1,598	1,623	1,638
4.32.31 Sack kraft	1,043	1,054	1,102	1,122	1,133	1,144
4.32.32 Other kraft wrapping and packaging paper	454	458	463	476	490	494
4.32.4 Folding boxboard:	1,787	1,832	1,854	1,869	1,887	1,906
4.32.41 Solid bleached board	521	554	559	565	570	576
4.32.42 Other folding boxboard	1,266	1,278	1,295	1,304	1,317	1,330
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	452	463	471	476	481	486
4.32.51 Paper	-	-	-	-	-	-
4.32.52 Paperboard	452	463	471	476	481	486
4.33 Other paper and paperboard, n.e.s., total:	2,318	2,394	2,461	2,548	2,573	2,599
4.33.1 Paper, n.e.s.	1,474	1,525	1,559	1,612	1,627	1,644
4.33.2 Paperboard, n.e.s.	844	869	902	936	946	955

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

[illegible]

53 Country: JORDAN

1,000 metric tons per year									
1975	1976	1977	1978	1979	1980				
4 Paper and Paperboard, total:	6	8	9	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:	6	8	9	10	10				
4.31 Household and sanitary paper	-	-	-	-	-				
4.32 Wrapping and packaging paper and paperboard, total:	6	8	9	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:	3	4	5	5	5				
4.32.21 Semi-chemical	-	-	-	-	-				
4.32.22 Other fluting medium	3	4	5	5	5				
4.32.3 Kraft wrapping 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	-	-	-	-				
4.32.51 Paper	-	-	-	-	-				
4.32.52 Paperboard	3	4	4	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.	-	-	-	-	-				

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

	1975		1976		1977		1978		1979		1980	
	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 Wood pulp for making paper and paperboard, total:	15	-	39	-	43	-	47	-	51	-	56	-
1.1 Mechanical	5	-	9	-	10	-	11	-	12	-	13	-
1.11 of which: non-coniferous	..	-	..	-	..	-	..	-	..	-	..	-
1.2 Chemi-mechanical and semi-chemical	-	-	-	-	-	-	-	-	-	-	-	-
1.21 of which: non-coniferous	-	-	-	-	-	-	-	-	-	-	-	-
1.3 Chemical, total:	10	-	30	-	33	-	36	-	39	-	43	-
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	-	29	-	33	-
1.34.1 of which: non-coniferous	..	-	..	-	..	-	..	-	..	-	..	-
2 Other fibre pulp for making paper and paperboard, total:	50	-	50	-	50	-	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.

54 Country: KOREA, DEMOCRATIC PEOPLE'S REPUBLIC (a)									
----- 1,000 metric tons per year -----									
	1975	1976	1977	1978	1979	1980			
4 Paper and Paperboard, total:	100	124	128	132	136	140			
4.1 Newsprint	-	-	-	-	-	-			
4.2 Other printing and writing paper, total:	..	18	21	24	27	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:	..	..	..	..	..	..			
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:	..	6	7	8	9	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.

[illegible]

55 Country: KOREA REP. OF

1,000 metric tons per year									
	1975	1976	1977	1978	1979	1980			
4 Paper and Paperboard, total:	982	1,073	1,126	1,171	1,182	1,186			
4.1 Newsprint	161	161	183	212	222	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:	619	710	741	757	758	758			
4.31 Household and sanitary paper	10	10	10	10	10	10			
4.32 Wrapping and packaging paper and paperboard, total:	609	700	731	747	748	748			
4.32.1 Linerboard:	..	..	..	..	..	..			
4.32.11 Kraft liner:	33	75	87	93	93	93			
4.32.11.1 Unbleached	..	..	..	..	..	..			
4.32.11.2 Bleached	..	..	..	..	..	..			
4.32.12 Other linerboard	..	..	..	..	..	..			
4.32.2 Fluting medium:	20	24	25	26	26	26			
4.32.21 Semi-chemical	..	..	..	..	..	..			
4.32.22 Other fluting medium	..	..	..	..	..	..			
4.32.3 Kraft wrapping and packaging paper:	..	..	..	..	..	..			
4.32.31 Sack kraft	131	155	167	173	174	174			
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.:	375	396	402	405	405	405			
4.32.51 Paper	17	17	17	17	17	17			
4.32.52 Paperboard	358	379	385	388	388	388			
4.33 Other paper and paperboard, n.e.s., total:	-	-	-	-	-	-			
4.33.1 Paper, n.e.s.	-	-	-	-	-	-			
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-			

56 Country: LEBANON

56 Country: LEBANON

	1975	1976	1977	1978	1979	1980
	----- 1,000 metric tons per year -----					
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.	-	-	-	-	-	-

57 Country: MALAYSIA

[illegible]

57 Country: MALAYSIA

	1975	1976	1977	1978	1979	1980
	----- 1,000 metric tons per year -----					
4 Paper and Paperboard, total:	20	20	22	22	23	23
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, total:	1	1	2	2	3	3
4.21 Coated:	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated:	1	1	2	2	3	3
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	1	1	2	2	3	3
4.3 Other paper and paperboard, total:	19	19	20	20	21	21
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.	..	..	..	..	..	..

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

	1975		1976		1977		1978		1979		1980	
	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 -----												
58 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 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	-	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.

58 Country: MONGOLIA (a)

	1975	1976	1977	1978	1979	1980
	----- 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.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

	1975		1976		1977		1978		1979		1980	
	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 -----												
59 Country: NEPAL (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 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	-	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.

59 Country: NEPAL (a)

1,000 metric tons per year									
	1975	1976	1977	1978	1979	1980			
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.

[illegible]

60 Country: PAKISTAN

	1975	1976	1977	1978	1979	1980
	1,000 metric tons per year					
4 Paper and Paperboard, total:	112	112	112	114	124	135
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, total:	47	47	47	49	49	52
4.21 Coated:	..	..	..	..	..	..
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	..	..	..	..	..	..
4.22 Uncoated:	47	47	47	49	49	52
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	47	47	47	49	49	52
4.3 Other paper and paperboard, total:	65	65	65	65	75	83
4.31 Household and sanitary paper	-	-	-	-	-	-
4.32 Wrapping and packaging paper and paperboard, total:	65	65	65	65	75	83
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	33	35
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	33	39
4.32.51 Paper	6	6	6	6	6	6
4.32.52 Paperboard	23	23	23	23	27	33
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

61 Country: PHILIPPINES

[illegible]

61 Country: PHILIPPINES

	1975	1976	1977	1978	1979	1980
	----- 1,000 metric tons per year -----					
4 Paper and Paperboard, total:	392	404	404	404	404	404
4.1 Newsprint	86	98	98	98	98	98
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	257	257	257	257	257
4.31 Household and sanitary paper	18	18	18	18	18	18
4.32 Wrapping and packaging paper and paperboard, total:	239	239	239	239	239	239
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	79	79	79	79	79
4.32.31 Sack kraft	52	52	52	52	52	52
4.32.32 Other kraft wrapping and packaging paper	27	27	27	27	27	27
4.32.4 Folding boxboard:	44	44	44	44	44	44
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.	-	-	-	-	-	-

62 Country: SINGAPORE

	1975	1976	1977	1978	1979	1980
	1,000 metric tons per year					
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.	..	..	..	..	..	..

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

[illegible]

63 Country: SRI LANKA

	1975	1976	1977	1978	1979	1980
	----- 1,000 metric tons per year -----					
4 Paper and Paperboard, total:	21	28	40	46	48	51
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, total:	9	12	24	27	29	29
4.21 Coated:	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated:	9	12	24	27	29	29
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	9	12	24	27	29	29
4.3 Other paper and paperboard, total:	12	16	16	19	19	22
4.31 Household and sanitary paper	-	-	-	-	-	3
4.32 Wrapping and packaging paper and paperboard, total:	11	15	15	18	18	18
4.32.1 Linerboard:	1	2	2	2	2	2
4.32.11 Kraft liner:	1	2	2	2	2	2
4.32.11.1 Unbleached	..	..	..	..	..	..
4.32.11.2 Bleached	..	..	..	..	..	..
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium:	3	4	4	5	5	5
4.32.21 Semi-chemical	3	4	4	5	5	5
4.32.22 Other fluting medium	-	-	-	-	-	-
4.32.3 Kraft wrapping and packaging paper:	1	2	2	3	3	3
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping and packaging paper	1	2	2	3	3	3
4.32.4 Folding boxboard:	4	4	4	5	5	5
4.32.41 Solid bleached board	-	-	-	1	1	1
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	3	3	3	3	3
4.32.51 Paper	-	1	1	1	1	1
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

[illegible]

64. Country: THAILAND

	1975	1976	1977	1978	1979	1980
	1,000 metric tons per year					
4 Paper and Paperboard, total:	161	161	161	161	161	161
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, total:	42	42	42	42	42	42
4.21 Coated:	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated:	42	42	42	42	42	42
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	42	42	42	42	42	42
4.3 Other paper and paperboard, total:	119	119	119	119	119	119
4.31 Household and sanitary paper	11	11	11	11	11	11
4.32 Wrapping and packaging paper and paperboard, total:	98	98	98	98	98	98
4.32.1 Linerboard:	27	27	27	27	27	27
4.32.11 Kraft liner:	27	27	27	27	27	27
4.32.11.1 Unbleached	..	..	..	..	..	..
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	-	-	-	-	-	-
4.32.22 Other fluting medium	14	14	14	14	14	14
4.32.3 Kraft wrapping and packaging paper:	39	39	39	39	39	39
4.32.31 Sack kraft	14	14	14	14	14	14
4.32.32 Other kraft wrapping and packaging paper	25	25	25	25	25	25
4.32.4 Folding boxboard:	16	16	16	16	16	16
4.32.41 Solid bleached board	6	6	6	6	6	6
4.32.42 Other folding boxboard	10	10	10	10	10	10
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:	10	10	10	10	10	10
4.33.1 Paper, n.e.s.	10	10	10	10	10	10
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

65 Country: TURKEY

	1975	1976	1977	1978	1979	1980
	----- 1,000 metric tons per year -----					
4 Paper and Paperboard, total:	496	496	597	613	730	769
4.1 Newsprint	83	83	83	83	143	163
4.2 Other printing and writing paper, total:	77	77	103	103	103	103
4.21 Coated:	-	-	10	30	35	39
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	10	30	35	39
4.22 Uncoated:	77	77	93	73	68	64
4.22.1 Wood containing	29	29	45	25	20	16
4.22.2 Wood free	48	48	48	48	48	48
4.3 Other paper and paperboard, total:	336	336	411	427	484	503
4.31 Household and sanitary paper	5	5	5	5	5	5
4.32 Wrapping and packaging paper and paperboard, total:	329	329	404	420	477	495
4.32.1 Linerboard:	66	66	66	66	97	114
4.32.11 Kraft liner:	26	26	26	26	57	74
4.32.11.1 Unbleached	26	26	26	26	57	74
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	40	40	40	40	40	40
4.32.2 Fluting medium:	23	23	28	43	43	43
4.32.21 Semi-chemical	10	10	15	15	15	15
4.32.22 Other fluting medium	13	13	13	28	28	28
4.32.3 Kraft wrapping and packaging paper:	79	79	107	108	134	135
4.32.31 Sack kraft	60	60	60	61	87	88
4.32.32 Other kraft wrapping and packaging paper	19	19	47	47	47	47
4.32.4 Folding boxboard:	42	42	42	42	42	42
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	42	42	42	42	42	42
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	119	119	161	161	161	161
4.32.51 Paper	35	35	35	35	35	35
4.32.52 Paperboard	84	84	126	126	126	126
4.33 Other paper and paperboard, n.e.s., total:	2	2	2	2	2	3
4.33.1 Paper, n.e.s.	2	2	2	2	2	3
4.33.2 Paperboard, n.e.s.	-	-	-	-	-	-

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

	1975		1976		1977		1978		1979		1980	
	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 -----												
66 Country: VIET-NAM, DEMOCRATIC REPUBLIC OF (a)												
1 Wood pulp for making paper and paperboard, total: (b)	..	-	..	-	..	-	..	-	..	-	..	-
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:	3	-	3	-	3	-	3	-	3	-	3	-
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. (b) Additional capacity only.

	1975	1976	1977	1978	1979	1980
	----- 1,000 metric tons per year -----					
4 Paper and Paperboard, total:	12	12	12	12	28	45
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, total:	12	12	12	12	27	42
4.21 Coated:	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated:	12	12	12	12	27	42
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	12	12	12	12	27	42
4.3 Other paper and paperboard, total:	-	-	-	-	1	3
4.31 Household and sanitary paper	-	-	-	-	-	-
4.32 Wrapping and packaging paper and paperboard, total:	-	-	-	-	1	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	3
4.32.51 Paper	-	-	-	-	1	3
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.

67 Country: VIET-NAM, REPUBLIC OF SOUTH

67 Country: VIET-NAM, REPUBLIC OF SOUTH						
	1975	1976	1977	1978	1979	1980
	----- 1,000 metric tons per year -----					
4 Paper and Paperboard, total:	50	50	50	50	50	50
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, total:	25	25	25	25	25	25
4.21 Coated:	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated:	25	25	25	25	25	25
4.22.1 Wood containing	10	10	10	10	10	10
4.22.2 Wood free	15	15	15	15	15	15
4.3 Other paper and paperboard, total:	25	25	25	25	25	25
4.31 Household and sanitary paper	-	-	-	-	-	-
4.32 Wrapping and packaging paper and paperboard, total:	25	25	25	25	25	25
4.32.1 Linerboard:	-	-	-	-	-	25
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	25	25	25
4.32.51 Paper	25	25	25	25	25	25
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.	-	-	-	-	-	-

68 Country: ALBANIA (a)

	1975		1976		1977		1978		1979		1980	
	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 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.

1,000 metric tons per year									
	1975	1976	1977	1978	1979	1980			
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.

	1975	1976	1977	1978	1979	1980
	----- 1,000 metric tons per year -----					
4 Paper and Paperboard, total:	1,450	1,485	1,525	1,540	1,575	1,600
4.1 Newsprint	155	155	155	155	155	155
4.2 Other printing and writing paper, total:	625	645	665	670	690	700
4.21 Coated:	149	154	159	160	165	167
4.21.1 Wood containing	18	19	20	20	21	21
4.21.2 Wood free	131	135	139	140	144	146
4.22 Uncoated:	476	491	506	510	525	533
4.22.1 Wood containing	162	167	172	173	178	181
4.22.2 Wood free	314	324	334	337	347	352
4.3 Other paper and paperboard, total:	670	685	705	715	730	745
4.31 Household and sanitary paper	70	70	75	75	80	80
4.32 Wrapping and packaging paper and paperboard, total:	480	495	510	520	530	540
4.32.1 Linerboard:	90	90	90	90	90	90
4.32.11 Kraft liner:	90	90	90	90	90	90
4.32.11.1 Unbleached	..	..	..	..	..	..
4.32.11.2 Bleached	..	..	..	..	..	..
4.32.12 Other linerboard	..	..	..	..	..	..
4.32.2 Fluting medium:	95	100	110	110	120	130
4.32.21 Semi-chemical	..	..	..	..	..	..
4.32.22 Other fluting medium	..	..	..	..	..	..
4.32.3 Kraft wrapping and packaging paper:	110	120	120	130	130	130
4.32.31 Sack kraft	70	75	75	80	80	80
4.32.32 Other kraft wrapping and packaging paper	40	45	45	50	50	50
4.32.4 Folding boxboard:	185	185	190	190	190	190
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:	120	120	120	120	120	125
4.33.1 Paper, n.e.s.	80	80	80	80	80	85
4.33.2 Paperboard, n.e.s.	40	40	40	40	40	40

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

70 Country: BELGIUM/LUXEMBOURG

[illegible]

70 Country: BELGIUM/LUXEMBOURG

	1975	1976	1977	1978	1979	1980
	----- 1,000 metric tons per year -----					
4 Paper and Paperboard, total:	876	933	1,003	1,028	1,050	1,061
4.1 Newsprint	95	95	95	95	95	95
4.2 Other printing and writing paper, total:	420	451	461	462	465	465
4.21 Coated:	135	139	140	140	140	140
4.21.1 Wood containing	..	..	..	..	..	..
4.21.2 Wood free	..	..	..	..	..	..
4.22 Uncoated:	285	312	321	322	325	325
4.22.1 Wood containing	143	143	144	144	144	144
4.22.2 Wood free	142	169	177	178	181	181
4.3 Other paper and paperboard, total:	361	387	447	471	490	501
4.31 Household and sanitary paper	58	63	100	112	120	120
4.32 Wrapping and packaging paper and paperboard, total:	251	271	294	306	317	328
4.32.1 Linerboard:	12	25	35	40	45	50
4.32.11 Kraft liner:	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	12	25	35	40	45	50
4.32.2 Fluting medium:	45	46	55	60	65	70
4.32.21 Semi-chemical	-	-	-	-	-	-
4.32.22 Other fluting medium	45	46	55	60	65	70
4.32.3 Kraft wrapping and packaging paper:	57	57	57	57	57	57
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping and packaging paper	57	57	57	57	57	57
4.32.4 Folding boxboard:	44	44	44	44	44	44
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	44	44	44	44	44	44
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	93	99	103	105	106	107
4.32.51 Paper	67	73	77	78	79	80
4.32.52 Paperboard	26	26	26	27	27	27
4.33 Other paper and paperboard, n.e.s., total:	52	53	53	53	53	53
4.33.1 Paper, n.e.s.	11	12	12	12	12	12
4.33.2 Paperboard, n.e.s.	41	41	41	41	41	41

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

71 Country: BULGARIA

71 Country: BULGARIA

	1975	1976	1977	1978	1979	1980
	----- 1,000 metric tons per year -----					
4 Paper and Paperboard, total:	341	380	381	391	425	476
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, total:	40	48	56	62	66	69
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:	34	42	50	56	60	63
4.22.1 Wood containing	9	10	11	11	12	12
4.22.2 Wood free	25	32	39	45	48	51
4.3 Other paper and paperboard, total:	301	332	325	329	359	407
4.31 Household and sanitary paper	7	7	7	7	7	7
4.32 Wrapping and packaging paper and paperboard, total:	265	293	280	272	311	356
4.32.1 Linerboard:	78	96	82	67	91	117
4.32.11 Kraft liner:	78	96	82	67	91	117
4.32.11.1 Unbleached	78	94	80	65	89	115
4.32.11.2 Bleached	-	2	2	2	2	2
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium:	70	78	78	78	78	78
4.32.21 Semi-chemical	58	66	66	66	66	66
4.32.22 Other fluting medium	12	12	12	12	12	12
4.32.3 Kraft wrapping and packaging paper:	55	56	58	62	69	78
4.32.31 Sack kraft	42	44	51	51	51	51
4.32.32 Other kraft wrapping and packaging paper	13	12	7	11	18	27
4.32.4 Folding boxboard:	31	31	33	35	40	40
4.32.41 Solid bleached board	3	3	3	4	5	5
4.32.42 Other folding boxboard	28	28	30	31	35	35
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	31	32	29	30	33	43
4.32.51 Paper	31	32	29	30	33	43
4.32.52 Paperboard	-	-	-	-	-	-
4.33 Other paper and paperboard, n.e.s., total:	29	32	38	50	41	44
4.33.1 Paper, n.e.s.	-	-	-	-	-	-
4.33.2 Paperboard, n.e.s.	29	32	38	50	41	44

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

	1975		1976		1977		1978		1979		1980	
	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 -----												
72 Country: CZECHOSLOVAKIA												
1 Wood pulp for making paper and paperboard, total:	807	..	864	..	864	..	865	..	909	..	924	..
1.1 Mechanical	174	..	174	..	175	..	176	..	176	..	176	..
1.11 of which: non-coniferous	-	-	-	-	-	-	-	-	-	-	-	-
1.2 Chemi-mechanical and semi-chemical	83	..	127	..	127	..	127	..	127	..	127	..
1.21 of which: non-coniferous	42	..	63	..	63	..	63	..	63	..	63	..
1.3 Chemical, total:	550	..	563	..	562	..	562	..	606	..	621	..
1.31 Unbleached sulphite	165	..	149	..	132	..	132	..	132	..	132	..
1.31.1 of which: non-coniferous	..	..	..	..	..	..	..	..	..	..	..	..
1.32 Bleached and semibleached sulphite	154	..	116	..	116	..	116	..	160	..	175	..
1.32.1 of which: non-coniferous	-	-	-	-	-	-	-	-	66	..	70	..
1.33 Unbleached sulphate and soda	143	..	171	..	187	..	187	..	187	..	187	..
1.33.1 of which: non-coniferous	-	-	-	-	-	-	-	-	-	-	-	-
1.34 Bleached and semibleached sulphate and soda	88	..	127	..	127	..	127	..	127	..	127	..
1.34.1 of which: non-coniferous	6	..	6	..	6	..	17	..	17	..	17	..
2 Other fibre pulp for making paper and paperboard, total:	15	..	15	..	15	..	15	..	15	..	15	..
2.1 Straw	-	-	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	15	..	15	..	15	..	15	..	15	..	15	..
3 Dissolving pulp (wood and other fibrous raw materials)	80	..	78	..	78	..	78	..	81	..	82	..
3.1 of which: non-coniferous	34	..	31	..	31	..	43	..	45	..	45	..

	1975	1976	1977	1978	1979	1980
	----- 1,000 metric tons per year -----					
4 Paper and Paperboard, total:	1,071	1,180	1,210	1,233	1,258	1,263
4.1 Newsprint	77	77	77	77	77	77
4.2 Other printing and writing paper, total:	156	160	160	160	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:	838	943	973	996	1,028	1,033
4.31 Household and sanitary paper	65	70	75	80	85	90
4.32 Wrapping and packaging paper and paperboard, total:	673	773	798	816	843	843
4.32.1 Linerboard:	..	..	..	..	..	..
4.32.11 Kraft liner:	46	53	62	73	97	97
4.32.11.1 Unbleached	..	..	..	..	..	..
4.32.11.2 Bleached	..	..	..	..	..	..
4.32.12 Other linerboard	..	..	..	..	..	..
4.32.2 Fluting medium:	92	157	152	160	155	155
4.32.21 Semi-chemical	..	..	..	..	..	..
4.32.22 Other fluting medium	..	..	..	..	..	..
4.32.3 Kraft wrapping and packaging paper:	97	134	154	148	124	124
4.32.31 Sack kraft	77	109	129	123	99	99
4.32.32 Other kraft wrapping and packaging paper	20	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.:	336	327	328	333	365	365
4.32.51 Paper	203	184	174	179	211	211
4.32.52 Paperboard	133	143	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

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

[illegible]

2	Other fibre pulp for making paper and paperboard, total:	57	35	70	45	70	45	73	45	73
2.1	Straw	35	35	45	45	45	45	45	45	45
2.2	Bagasse	-	-	-	-	-	-	-	-	-
2.3	Bamboo	-	-	-	-	-	-	-	-	-
2.4	Other (reeds, esparto, rags, etc.)	22	-	25	-	25	-	28	28	28

[illegible]

73 Country: DENMARK

	1975	1976	1977	1978	1979	1980
	--- 1,000 metric tons per year ---					
4 Paper and Paperboard, total:	280	309	315	318	318	318
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, total:	105	115	115	115	115	115
4.21 Coated:	40	40	40	40	40	40
4.21.1 Wood containing	..	..	..	..	..	..
4.21.2 Wood free	..	..	..	..	..	..
4.22 Uncoated:	65	75	75	75	75	75
4.22.1 Wood containing	..	..	..	..	..	..
4.22.2 Wood free	..	..	..	..	..	..
4.3 Other paper and paperboard, total:	175	194	200	203	203	203
4.31 Household and sanitary paper	15	15	15	15	15	15
4.32 Wrapping and packaging paper and paperboard, total:	136	146	146	146	146	146
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	70	70	70	70	70
4.32.21 Semi-chemical	..	..	..	..	..	..
4.32.22 Other fluting medium	..	..	..	..	..	..
4.32.3 Kraft wrapping and packaging paper:	26	26	26	26	26	26
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping and packaging paper	26	26	26	26	26	26
4.32.4 Folding boxboard:	50	50	50	50	50	50
4.32.41 Solid bleached board	-	-	-	-	-	-
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.:	-	-	-	-	-	-
4.32.51 Paper	-	-	-	-	-	-
4.32.52 Paperboard	-	-	-	-	-	-
4.33 Other paper and paperboard, n.e.s., total:	24	33	39	42	42	42
4.33.1 Paper, n.e.s.	..	..	..	..	..	..
4.33.2 Paperboard, n.e.s.	..	..	..	..	..	..

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

74 Country: FINLAND										
	1975		1976		1977		1978		1979	1980
	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 Wood pulp for making paper and paperboard, total:	7,170	1,870	7,185	1,870	7,505	1,980	7,745	2,010	7,935	8,030
1.1 Mechanical	2,510	50	2,560	50	2,680	50	2,765	50	2,825	2,850
1.11 of which: non-coniferous	-	-	-	-	-	-	-	-	-	-
1.2 Chemit-mechanical and semi-chemical	440	20	435	20	435	20	390	20	390	390
1.21 of which: non-coniferous	435	20	435	20	435	20	390	20	390	390
1.3 Chemical, total:	4,220	1,800	4,190	1,800	4,390	1,910	4,590	1,940	4,720	4,790
1.31 Unbleached sulphite	660	310	540	190	500	150	450	130	450	450
1.31.1 of which: non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	500	260	570	290	540	250	420	180	420	420
1.32.1 of which: non-coniferous	55	25	60	30	60	30	60	30	60	60
1.33 Unbleached sulphate and soda	1,360	310	1,320	270	1,320	290	1,320	290	1,330	1,350
1.33.1 of which: non-coniferous	30	20	20	-	20	-	20	-	20	20
1.34 Bleached and semibleached sulphate and soda	1,700	920	1,760	1,050	2,030	1,220	2,400	1,340	2,520	2,570
1.34.1 of which: non-coniferous	700	480	760	570	900	670	1,030	720	1,070	1,100
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)	250	250	260	260	270	270	280	280	280	280
3.1 of which: non-coniferous	60	60	65	65	65	65	70	70	70	70

74 Country: FINLAND

	1975	1976	1977	1978	1979	1980
	----- 1,000 metric tons per year -----					
4 Paper and Paperboard, total:	6,055	6,205	6,330	6,440	6,580	6,825
4.1 Newsprint	1,220	1,230	1,250	1,320	1,285	1,300
4.2 Other printing and writing paper, total:	2,120	2,235	2,325	2,400	2,480	2,615
4.21 Coated:	335	455	520	545	550	550
4.21.1 Wood containing	290	405	460	480	480	480
4.21.2 Wood free	45	50	60	65	70	70
4.22 Uncoated:	1,785	1,780	1,805	1,855	1,930	2,065
4.22.1 Wood containing	1,430	1,430	1,450	1,495	1,535	1,640
4.22.2 Wood free	355	350	355	355	395	425
4.3 Other paper and paperboard, total:	2,715	2,740	2,755	2,720	2,815	2,910
4.31 Household and sanitary paper	145	150	155	155	155	155
4.32 Wrapping and packaging paper and paperboard, total:	2,040	2,055	2,060	2,020	2,125	2,200
4.32.1 Linerboard:	600	615	590	595	600	600
4.32.11 Kraft liner:	555	570	545	550	550	550
4.32.11.1 Unbleached	425	420	385	390	390	390
4.32.11.2 Bleached	130	150	160	160	160	160
4.32.12 Other linerboard	45	45	45	45	50	50
4.32.2 Fluting medium:	350	350	350	300	300	300
4.32.21 Semi-chemical	350	350	350	300	300	300
4.32.22 Other fluting medium	-	-	-	-	-	-
4.32.3 Kraft wrapping and packaging paper:	380	380	380	380	420	440
4.32.31 Sack kraft	330	330	330	330	365	375
4.32.32 Other kraft wrapping and packaging paper	50	50	50	50	55	65
4.32.4 Folding boxboard:	555	560	560	560	630	680
4.32.41 Solid bleached board	172	175	175	180	180	180
4.32.42 Other folding boxboard	383	385	385	380	450	500
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	155	150	180	185	175	180
4.32.51 Paper	70	70	70	70	70	70
4.32.52 Paperboard	85	80	110	115	105	110
4.33 Other paper and paperboard, n.e.s., total:	530	535	540	545	535	555
4.33.1 Paper, n.e.s.	355	360	365	370	385	405
4.33.2 Paperboard, n.e.s.	175	175	175	175	150	150

75 Country: FRANCE

	1975	1976	1977	1978	1979	1980
	----- 1,000 metric tons per year -----					
4 Paper and Paperboard, total:	5,880	6,140	6,480	6,750	6,860	6,860
4.1 Newsprint	300	300	300	300	300	300
4.2 Other printing and writing paper, total:	2,000	2,065	2,165	2,220	2,285	2,285
4.21 Coated:	710	760	775	790	810	810
4.21.1 Wood containing	425	430	435	440	440	440
4.21.2 Wood free	285	330	340	350	370	370
4.22 Uncoated:	1,290	1,305	1,390	1,430	1,475	1,475
4.22.1 Wood containing	320	325	345	360	370	370
4.22.2 Wood free	970	980	1,045	1,070	1,105	1,105
4.3 Other paper and paperboard, total:	3,580	3,775	4,015	4,230	4,275	4,275
4.31 Household and sanitary paper	155	160	240	330	335	335
4.32 Wrapping and packaging paper and paperboard, total:	3,035	3,190	3,335	3,450	3,490	3,490
4.32.1 Linerboard:	990	1,030	1,090	1,120	1,135	1,135
4.32.11 Kraft liner:	310	330	340	350	360	360
4.32.11.1 Unbleached	260	275	280	285	290	290
4.32.11.2 Bleached	50	55	60	65	70	70
4.32.12 Other linerboard	680	700	750	770	775	775
4.32.2 Fluting medium:	650	730	770	810	815	815
4.32.21 Semi-chemical	345	415	440	480	480	480
4.32.22 Other fluting medium	305	315	330	330	335	335
4.32.3 Kraft wrapping and packaging paper:	430	440	455	465	470	470
4.32.31 Sack kraft	140	140	140	145	145	145
4.32.32 Other kraft wrapping and packaging paper	290	300	315	320	325	325
4.32.4 Folding boxboard:	360	370	385	400	405	405
4.32.41 Solid bleached board	145	150	155	160	160	160
4.32.42 Other folding boxboard	215	220	230	240	245	245
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	605	620	635	655	665	665
4.32.51 Paper	335	340	345	355	360	360
4.32.52 Paperboard	270	280	290	300	305	305
4.33 Other paper and paperboard, n.e.s., total:	390	425	440	450	450	450
4.33.1 Paper, n.e.s.	305	335	350	355	355	355
4.33.2 Paperboard, n.e.s.	85	90	90	95	95	95

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

	1975		1976		1977		1978		1979		1980	
	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: GERMAN DEMOCRATIC REPUBLIC (a)												
1 Wood pulp for making paper and paperboard, total:	850	-	850	-	885	-	1,000	-	1,035	-	1,050	-
1.1 Mechanical	445	-	445	-	445	-	445	-	445	-	445	-
1.11 of which: non-coniferous	..	-	..	-	..	-	..	-	..	-	..	-
1.2 Chemi-mechanical and semi-chemical	5	-	5	-	5	-	5	-	5	-	5	-
1.21 of which: non-coniferous	..	-	..	-	..	-	..	-	..	-	..	-
1.3 Chemical, total:	400	-	400	-	435	-	550	-	585	-	600	-
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:	41	-	45	-	49	-	53	-	57	-	60	-
2.1 Straw	-	-	-	-	-	-	-	-	-	-	-	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	41	-	45	-	49	-	53	-	57	-	60	-
3 Dissolving pulp (wood and other fibrous raw materials)	200	..	200	..	200	..	200	..	200	..	200	..
3.1 of which: non-coniferous	..	..	..	..	..	..	..	..	..	..	..	..

(a) Secretariat estimate.

76 Country: GERMAN DEMOCRATIC REPUBLIC (a)

	1975	1976	1977	1978	1979	1980
	----- 1,000 metric tons per year -----					
4 Paper and Paperboard, total:	1,350	1,380	1,410	1,440	1,470	1,500
4.1 Newsprint	140	140	140	150	150	150
4.2 Other printing and writing paper, total:	260	270	280	285	295	300
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:	950	970	990	1,005	1,025	1,050
4.31 Household and sanitary paper	..	..	..	..	..	..
4.32 Wrapping and packaging paper and paperboard, total:	950	970	990	1,005	1,025	1,050
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.

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

77 Country: GERMANY, FED. REP. OF

[illegible][illegible][illegible]

77 Country: GERMANY, FED. REP. OF

	1975	1976	1977	1978	1979	1980
	----- 1,000 metric tons per year -----					
4 Paper and Paperboard, total:	7,800	8,184	8,769	9,441	9,616	9,784
4.1 Newsprint	595	573	743	907	907	907
4.2 Other printing and writing paper, total:	2,547	2,648	2,765	2,980	3,082	3,190
4.21 Coated:	997	1,041	1,077	1,156	1,186	1,200
4.21.1 Wood containing	..	..	..	..	..	..
4.21.2 Wood free	..	..	..	..	..	..
4.22 Uncoated:	1,550	1,607	1,688	1,824	1,896	1,990
4.22.1 Wood containing	712	750	770	780	804	820
4.22.2 Wood free	838	857	918	1,044	1,092	1,170
4.3 Other paper and paperboard, total:	4,658	4,963	5,261	5,554	5,627	5,687
4.31 Household and sanitary paper	442	444	447	537	537	540
4.32 Wrapping and packaging paper and paperboard, total:	3,643	3,928	4,218	4,414	4,481	4,535
4.32.1 Linerboard:	298	404	446	465	466	470
4.32.11 Kraft liner:	3	8	9	10	10	10
4.32.11.1 Unbleached	..	..	..	..	..	..
4.32.11.2 Bleached	..	..	..	..	..	..
4.32.12 Other linerboard	295	396	437	455	456	460
4.32.2 Fluting medium:	895	953	1,110	1,225	1,271	1,300
4.32.21 Semi-chemical	109	106	188	273	278	285
4.32.22 Other fluting medium	786	847	922	952	993	1,015
4.32.3 Kraft wrapping and packaging paper:	205	201	209	210	209	210
4.32.31 Sack kraft	47	34	35	36	36	36
4.32.32 Other kraft wrapping and packaging paper	158	167	174	174	173	174
4.32.4 Folding boxboard:	597	662	684	700	701	705
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	597	662	684	700	701	705
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	1,648	1,708	1,769	1,814	1,834	1,850
4.32.51 Paper	935	970	1,026	1,053	1,073	1,085
4.32.52 Paperboard	713	738	743	761	761	765
4.33 Other paper and paperboard, n.e.s., total:	573	591	596	603	609	612
4.33.1 Paper, n.e.s.	413	429	434	441	447	450
4.33.2 Paperboard, n.e.s.	160	162	162	162	162	162

78 Country: GREECE

1975										1976		1977		1978		1979	1980
Total capacity		of which market pulp		Total capacity		of which market pulp		Total capacity		of which market pulp		Total capacity		of which market pulp		Total capacity	Total capacity
----- 1,000 metric tons (air dry) per year -----																	
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																	
1.2.1 of which: non-coniferous																	
1.3 Chemical, total:																	
1.3.1 Unbleached sulphite																	
1.3.1.1 of which: non-coniferous																	
1.3.2 Bleached and semibleached sulphite																	
1.3.2.1 of which: non-coniferous																	
1.3.3 Unbleached sulphate and soda																	
1.3.3.1 of which: non-coniferous																	
1.3.4 Bleached and semibleached sulphate and soda																	
1.3.4.1 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																	

78 Country: GREECE

1,000 metric tons per year									
	1975	1976	1977	1978	1979	1980			
4 Paper and Paperboard, total:	286	379	470	497	506	506			
4.1 Newsprint	-	63	81	90	90	90			
4.2 Other printing and writing paper, total:	90	90	153	171	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:	196	226	236	236	236	236			
4.31 Household and sanitary paper	81	106	106	106	106	106			
4.32 Wrapping and packaging paper and paperboard, total:	90	95	105	105	105	105			
4.32.1 Linerboard:	5	5	6	6	6	6			
4.32.11 Kraft liner:	5	5	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	10	11	11	11	11			
4.32.21 Semi-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:	39	44	48	48	48	48			
4.32.41 Solid bleached board	4	4	4	4	4	4			
4.32.42 Other folding boxboard	35	40	44	44	44	44			
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	30	30	34	34	34	34			
4.32.51 Paper	30	30	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			

79 Country: HUNGARY

	1975	1976	1977	1978	1979	1980
	----- 1,000 metric tons per year -----					
4 Paper and Paperboard, total:	347	423	445	457	456	455
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, total:	102	117	117	117	117	117
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:	245	306	328	340	339	338
4.31 Household and sanitary paper	13	17	19	21	22	22
4.32 Wrapping and packaging paper and paperboard, total:	222	280	301	312	311	311
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:	88	158	178	188	188	188
4.32.21 Semi-chemical	..	..	..	..	..	..
4.32.22 Other fluting medium	..	..	..	..	..	..
4.32.3 Kraft wrapping and packaging paper:	38	37	39	42	45	45
4.32.31 Sack kraft	29	27	29	32	35	35
4.32.32 Other kraft wrapping and packaging paper	9	10	10	10	10	10
4.32.4 Folding boxboard:	40	40	40	40	40	40
4.32.41 Solid bleached board	10	10	10	10	10	10
4.32.42 Other folding boxboard	30	30	30	30	30	30
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	56	45	44	42	38	38
4.32.51 Paper	40	33	32	31	29	29
4.32.52 Paperboard	16	12	12	11	9	9
4.33 Other paper and paperboard, n.e.s., total:	10	9	8	7	6	5
4.33.1 Paper, n.e.s.	7	6	6	5	5	4
4.33.2 Paperboard, n.e.s.	3	3	2	2	1	1

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

[illegible]

	1975	1976	1977	1978	1979	1980
	1,000 metric tons per year					
4 Paper and Paperboard, total:	155	160	162	164	165	165
4.1 Newsprint	-	-	-	-	-	-
4.2 Other printing and writing paper, total:	32	32	34	34	35	35
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:	123	128	128	130	130	130
4.31 Household and sanitary paper	-	-	-	-	-	-
4.32 Wrapping and packaging paper and paperboard, total:	123	128	128	130	130	130
4.32.1 Linerboard:	-	-	-	-	-	-
4.32.11 Kraft liner:	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium:	95	100	100	102	102	102
4.32.21 Semi-chemical	..	..	..	..	..	..
4.32.22 Other fluting medium	..	..	..	..	..	..
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:	-	-	-	-	-	-
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	13	13	13	13	13
4.32.51 Paper	13	13	13	13	13	13
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

	1975		1976		1977		1978		1979		1980	
	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 -----												
81 Country: ITALY												
1 Wood pulp for making paper and paperboard, total:	1,315	-	1,380	-	1,450	-	1,500	-	1,500	-	1,500	-
1.1 Mechanical	725	-	760	-	800	-	830	-	830	-	830	-
1.11 of which: non-coniferous	..	-	..	-	..	-	..	-	..	-	..	-
1.2 Chemi-mechanical and semi-chemical	230	-	240	-	250	-	260	-	260	-	260	-
1.21 of which: non-coniferous	..	-	..	-	..	-	..	-	..	-	..	-
1.3 Chemical, total:	360	-	380	-	400	-	410	-	410	-	410	-
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	-	420	-	420	-	420	-	420	-
2.1 Straw	420	-	420	-	420	-	420	-	420	-	420	-
2.2 Bagasse	-	-	-	-	-	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	-	-	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	..	-	..	-	..	-	..	-	..	-	..	-
3 Dissolving pulp (wood and other fibrous raw materials)	90	-	90	-	90	-	90	-	90	-	90	-
3.1 of which: non-coniferous	..	-	..	-	..	-	..	-	..	-	..	-

81 Country: ITALY

	1975	1976	1977	1978	1979	1980
	1,000 metric tons per year					
4 Paper and Paperboard, total:	4,760	5,000	5,250	5,500	5,500	5,500
4.1 Newsprint	500	500	525	550	550	550
4.2 Other printing and writing paper, total:	1,600	1,700	1,785	1,870	1,870	1,870
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:	2,660	2,800	2,940	3,080	3,080	3,080
4.31 Household and sanitary paper	..	..	..	..	..	..
4.32 Wrapping and packaging paper and paperboard, total:	2,360	2,500	2,610	2,740	2,740	2,740
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.	..	..	..	..	..	..

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

[illegible]

	1975	1976	1977	1978	1979	1980
	----- 1,000 metric tons per year -----					
4 Paper and Paperboard, total:	2,007	2,087	2,139	2,147	2,147	2,147
4.1 Newsprint	148	148	148	148	148	148
4.2 Other printing and writing paper, total:	662	662	662	662	662	662
4.21 Coated:	214	214	214	214	214	214
4.21.1 Wood containing	..	..	..	..	..	..
4.21.2 Wood free	..	..	..	..	..	..
4.22 Uncoated:	448	448	448	448	448	448
4.22.1 Wood containing	93	93	93	93	93	93
4.22.2 Wood free	355	355	355	355	355	355
4.3 Other paper and paperboard, total:	1,197	1,277	1,329	1,337	1,337	1,337
4.31 Household and sanitary paper	98	116	116	116	116	116
4.32 Wrapping and packaging paper and paperboard, total:	1,088	1,139	1,169	1,177	1,177	1,177
4.32.1 Linerboard:	128	143	154	157	157	157
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	104	119	130	133	133	133
4.32.2 Fluting medium:	319	318	322	323	323	323
4.32.21 Semi-chemical	88	88	88	88	88	88
4.32.22 Other fluting medium	231	230	234	235	235	235
4.32.3 Kraft wrapping and packaging paper:	58	58	58	58	58	58
4.32.31 Sack kraft	-	-	-	-	-	-
4.32.32 Other kraft wrapping and packaging paper	58	58	58	58	58	58
4.32.4 Folding boxboard:	107	123	134	137	137	137
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	107	123	134	137	137	137
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	476	497	501	502	502	502
4.32.51 Paper	65	65	65	65	65	65
4.32.52 Paperboard	411	432	436	437	437	437
4.33 Other paper and paperboard, n.e.s., total:	11	22	44	44	44	44
4.33.1 Paper, n.e.s.	4	4	4	4	4	4
4.33.2 Paperboard, n.e.s.	7	18	40	40	40	40

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

[illegible]

83 Country: NORWAY

	1975	1976	1977	1978	1979	1980
	----- 1,000 metric tons per year -----					
4 Paper and Paperboard, total:	1,600	1,650	1,700	1,750	1,800	1,850
4.1 Newsprint	580	600	625	650	675	700
4.2 Other printing and writing paper, total:	380	390	400	420	430	440
4.21 Coated:	15	15	15	15	15	15
4.21.1 Wood containing	..	..	..	..	..	..
4.21.2 Wood free	..	..	..	..	..	..
4.22 Uncoated:	365	375	385	405	415	425
4.22.1 Wood containing	220	230	235	250	255	255
4.22.2 Wood free	145	145	150	155	160	170
4.3 Other paper and paperboard, total:	640	660	675	680	695	710
4.31 Household and sanitary paper	35	40	40	40	40	40
4.32 Wrapping and packaging paper and paperboard, total:	585	600	615	620	635	650
4.32.1 Linerboard:	35	40	40	40	40	45
4.32.11 Kraft liner:	35	40	40	40	40	45
4.32.11.1 Unbleached	..	35	35	35	35	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	160	165	170	180
4.32.31 Sack kraft	95	95	100	105	110	120
4.32.32 Other kraft wrapping and packaging paper	60	60	60	60	60	60
4.32.4 Folding boxboard:	100	110	120	120	125	125
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	100	110	120	120	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

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

84 Country: POLAND

	1975		1976		1977		1978		1979		1980	
	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 Wood pulp for making paper and paperboard, total:	593	-	693	-	773	-	799	-	878	-	975	-
1.1 Mechanical	151	-	165	-	180	-	180	-	180	-	180	-
1.11 of which: non-coniferous	..	-	..	-	..	-	..	-	..	-	..	-
1.2 Chemi-mechanical and semi-chemical	15	-	15	-	61	-	79	-	79	-	102	-
1.21 of which: non-coniferous	15	-	15	-	61	-	79	-	79	-	102	-
1.3 Chemical, total:	427	-	513	-	532	-	540	-	619	-	692	-
1.31 Unbleached sulphite	56	-	55	-	58	-	60	-	51	-	55	-
1.31.1 of which: non-coniferous	..	-	..	-	..	-	..	-	..	-	..	-
1.32 Bleached and semibleached sulphite	78	-	75	-	79	-	80	-	82	-	84	-
1.32.1 of which: non-coniferous	..	-	..	-	..	-	..	-	..	-	..	-
1.33 Unbleached sulphate and soda	255	-	351	-	360	-	363	-	370	-	403	-
1.33.1 of which: non-coniferous	..	-	..	-	..	-	..	-	..	-	..	-
1.34 Bleached and semibleached sulphate and soda	38	-	32	-	35	-	37	-	116	-	151	-
1.34.1 of which: non-coniferous	..	-	..	-	..	-	..	-	..	-	..	-

2 Other fibre pulp for making paper and paperboard, total:	23	-	23	-	23	-	23	-	17	-	17	-
2.1 Straw	21	-	21	-	21	-	21	-	15	-	15	-
2.2 Bagasse	-	-	-	-	..	-	-	-	-	-	-	-
2.3 Bamboo	-	-	-	-	..	-	-	-	-	-	-	-
2.4 Other (reeds, esparto, rags, etc.)	2	-	2	-	2	-	2	-	2	-	2	-

3 Dissolving pulp (wood and other fibrous raw materials)	69	-	71	-	71	-	73	-	73	-	73	-
3.1 of which: non-coniferous	50	-	48	-	55	-	55	-	55	-	55	-

	1975	1976	1977	1978	1979	1980
	----- 1,000 metric tons per year -----					-----
4 Paper and Paperboard, total:	1,242	1,337	1,429	1,487	1,514	1,645
4.1 Newsprint	83	85	85	85	85	85
4.2 Other printing and writing paper, total:	211	240	262	263	278	357
4.21 Coated:	16	16	17	18	18	18
4.21.1 Wood containing	11	11	11	11	11	11
4.21.2 Wood free	5	5	6	7	7	7
4.22 Uncoated:	195	224	245	245	260	339
4.22.1 Wood containing	117	141	162	162	162	166
4.22.2 Wood free	78	83	83	83	98	173
4.3 Other paper and paperboard, total:	948	1,012	1,082	1,139	1,151	1,203
4.31 Household and sanitary paper	63	70	94	100	100	100
4.32 Wrapping and packaging paper and paperboard, total:	746	792	837	891	892	953
4.32.1 Linerboard:	137	137	131	133	133	133
4.32.11 Kraft liner:	58	58	58	58	58	58
4.32.11.1 Unbleached	58	58	58	58	58	58
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	79	78	73	75	75	75
4.32.2 Fluting medium:	54	54	98	132	133	133
4.32.21 Semi-chemical	45	45	89	123	124	124
4.32.22 Other fluting medium	9	9	9	9	9	9
4.32.3 Kraft wrapping and packaging paper:	216	230	230	233	236	303
4.32.31 Sack kraft	148	162	162	165	168	235
4.32.32 Other kraft wrapping and packaging paper	68	68	68	68	68	68
4.32.4 Folding boxboard:	190	194	194	194	194	194
4.32.41 Solid bleached board	90	103	103	103	103	103
4.32.42 Other folding boxboard	100	91	91	91	91	91
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	149	177	184	199	196	190
4.32.51 Paper	147	174	181	196	193	187
4.32.52 Paperboard	2	3	3	3	3	3
4.33 Other paper and paperboard, n.e.s., total:	139	150	151	148	159	150
4.33.1 Paper, n.e.s.	64	74	74	71	81	71
4.33.2 Paperboard, n.e.s.	75	76	77	77	78	79

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

[illegible]

85 Country: PORTUGAL

	1975	1976	1977	1978	1979	1980
	----- 1,000 metric tons per year -----					
4 Paper and Paperboard, total:	439	483	534	564	568	568
4.1 Newsprint	2	2	2	2	2	2
4.2 Other printing and writing paper, total:	55	58	90	99	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:	382	423	442	463	466	466
4.31 Household and sanitary paper	21	22	31	36	38	38
4.32 Wrapping and packaging paper and paperboard, total:	316	360	376	393	394	394
4.32.1 Linerboard:	120	140	155	170	170	170
4.32.11 Kraft liner:	120	140	155	170	170	170
4.32.11.1 Unbleached	120	140	155	170	170	170
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium:	46	47	47	48	48	48
4.32.21 Semi-chemical	..	..	..	..	..	..
4.32.22 Other fluting medium	..	..	..	..	..	..
4.32.3 Kraft wrapping and packaging paper:	92	93	93	94	94	94
4.32.31 Sack kraft	34	35	35	36	36	36
4.32.32 Other kraft wrapping and packaging paper	58	58	58	58	58	58
4.32.4 Folding boxboard:	28	50	56	57	58	58
4.32.41 Solid bleached board	11	12	12	12	12	12
4.32.42 Other folding boxboard	17	38	44	45	46	46
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	30	30	25	24	24	24
4.32.51 Paper	20	20	18	17	17	17
4.32.52 Paperboard	10	10	7	7	7	7
4.33 Other paper and paperboard, n.e.s., total:	45	41	35	34	34	34
4.33.1 Paper, n.e.s.	20	16	15	14	14	14
4.33.2 Paperboard, n.e.s.	25	25	20	20	20	20

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

86 Country: ROMANIA

	1975		1976		1977		1978		1979		1980	
	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 Wood pulp for making paper and paperboard, total:	601	68	643	32	665	37	672	40	758		777	
1.1 Mechanical	63	-	99	-	105	-	112	-	118		125	
1.11 of which: non-coniferous	-	-	-	-	-	-	-	-	-		-	
1.2 Chemi-mechanical and semi-chemical	44	-	44	-	44	-	46	-	81		81	
1.21 of which: non-coniferous	44	-	44	-	44	-	46	-	81		81	
1.3 Chemical, total:	494	68	500	32	516	37	514	40	559		571	
1.31 Unbleached sulphite	69	..	75	..	77	..	79	..	79		79	
1.31.1 of which: non-coniferous	-	-	-	-	-	-	-	-	-		-	
1.32 Bleached and semibleached sulphite	56	..	50	..	45	..	49	..	49		49	
1.32.1 of which: non-coniferous	-	-	-	-	-	-	-	-	-		-	
1.33 Unbleached sulphate and soda	181	..	181	..	183	..	183	..	182		182	
1.33.1 of which: non-coniferous	39	..	44	-	46	-	46	-	46		46	
1.34 Bleached and semibleached sulphate and soda	188	..	194	..	211	..	203	..	249		261	
1.34.1 of which: non-coniferous	109	..	113	..	117	..	125	..	118		118	
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)	70	70	70	70	70	70	109	109	109		109	
3.1 of which: non-coniferous	63	63	63	63	63	63	98	98	98		98	

86 Country: ROMANIA

	1975	1976	1977	1978	1979	1980
	1,000 metric tons per year					
4 Paper and Paperboard, total:	723	802	839	926	993	1,003
4.1 Newsprint	53	109	125	133	133	133
4.2 Other printing and writing paper, total:	141	135	133	150	163	163
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:	529	558	581	643	697	707
4.31 Household and sanitary paper	20	25	25	25	25	25
4.32 Wrapping and packaging paper and paperboard, total:	448	435	449	498	549	559
4.32.1 Linerboard:	..	..	..	..	..	..
4.32.11 Kraft liner:	70	80	90	100	110	120
4.32.11.1 Unbleached	..	..	..	..	..	..
4.32.11.2 Bleached	..	..	..	..	..	..
4.32.12 Other linerboard	..	..	..	..	..	..
4.32.2 Fluting medium:	60	60	60	70	80	80
4.32.21 Semi-chemical	..	..	..	..	..	..
4.32.22 Other fluting medium	..	..	..	..	..	..
4.32.3 Kraft wrapping and packaging paper:	168	137	138	160	190	190
4.32.31 S : k kraft	92	93	94	94	95	95
4.32.32 Other kraft wrapping and packaging paper	76	44	44	66	95	95
4.32.4 Folding boxboard:	90	107	110	110	110	110
4.32.41 Solid bleached board	10	27	30	30	30	30
4.32.42 Other folding boxboard	80	80	80	80	80	80
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	60	51	51	58	59	59
4.32.51 Paper	30	21	21	28	29	29
4.32.52 Paperboard	30	30	30	30	30	30
4.33 Other paper and paperboard, n.e.s., total:	61	98	107	120	123	123
4.33.1 Paper, n.e.s.	30	21	20	29	29	29
4.33.2 Paperboard, n.e.s.	31	77	87	91	94	94

FAC WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

87 Country: SPAIN

[illegible]

87 Country: SPAIN

1,000 metric tons per year									
1975	1976	1977	1978	1979	1980				
4 Paper and Paperboard, total:	2,343	2,460	2,564	2,739	2,848	2,969			
4.1 Newsprint	148	148	148	148	148	148			
4.2 Other printing and writing paper, total:	604	627	639	736	776	851			
4.21 Coated:	151	178	206	206	206	206			
4.21.1 Wood containing	..	..	..	..	..	..			
4.21.2 Wood free	..	..	..	..	..	..			
4.22 Uncoated:	453	449	433	530	570	645			
4.22.1 Wood containing	..	..	..	..	..	..			
4.22.2 Wood free	..	..	..	..	..	..			
4.3 Other paper and paperboard, total:	1,591	1,685	1,777	1,855	1,924	1,970			
4.31 Household and sanitary paper	72	97	131	168	181	190			
4.32 Wrapping and packaging paper and paperboard, total:	1,471	1,540	1,593	1,639	1,695	1,732			
4.32.1 Linerboard:	546	565	611	651	707	744			
4.32.11 Kraft liner:	106	108	110	111	141	153			
4.32.11.1 Unbleached	86	88	90	91	121	133			
4.32.11.2 Bleached	20	20	20	20	20	20			
4.32.12 Other linerboard	440	457	501	540	566	591			
4.32.2 Fluting medium:	442	484	496	497	497	497			
4.32.21 Semi-chemical	75	85	90	90	90	90			
4.32.22 Other fluting medium	367	399	406	407	407	407			
4.32.3 Kraft wrapping and packaging paper:	151	155	155	155	155	155			
4.32.31 Sack kraft	151	155	155	155	155	155			
4.32.32 Other kraft wrapping and packaging paper	..	..	..	..	..	..			
4.32.4 Folding boxboard:	310	314	314	314	314	314			
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.:	22	22	22	22	22	22			
4.32.51 Paper	..	..	..	..	..	..			
4.32.52 Paperboard	..	..	..	..	..	..			
4.33 Other paper and paperboard, n.e.s., total:	48	48	48	48	48	48			
4.33.1 Paper, n.e.s.	37	37	37	37	37	37			
4.33.2 Paperboard, n.e.s.	11	11	11	11	11	11			

88 Country: SWEDEN

[illegible][illegible]

88 Country: SWEDEN

	1975	1976	1977	1978	1979	1980
	----- 1,000 metric tons per year -----					
4 Paper and Paperboard, total:	6,260	6,345	6,885	7,380	7,935	8,380
4.1 Newsprint	1,490	1,410	1,455	1,760	1,795	1,965
4.2 Other printing and writing paper, total:	960	915	1,045	1,110	1,245	1,280
4.21 Coated:	295	250	290	315	435	480
4.21.1 Wood containing	125	100	115	115	115	115
4.21.2 Wood free	170	150	175	200	320	365
4.22 Uncoated:	665	665	755	795	810	800
4.22.1 Wood containing	335	310	325	325	325	305
4.22.2 Wood free	330	355	430	470	485	495
4.3 Other paper and paperboard, total:	3,810	4,020	4,385	4,510	4,895	5,135
4.31 Household and sanitary paper	225	235	240	240	245	260
4.32 Wrapping and packaging paper and paperboard, total:	3,165	3,370	3,645	3,755	4,125	4,325
4.32.1 Linerboard:	880	1,045	1,115	1,145	1,285	1,390
4.32.11 Kraft liner:	830	995	1,065	1,090	1,195	1,275
4.32.11.1 Unbleached	750	890	955	980	1,085	1,160
4.32.11.2 Bleached	80	105	110	110	110	115
4.32.12 Other linerboard	50	50	50	55	90	115
4.32.2 Fluting medium:	355	350	385	405	480	505
4.32.21 Semi-chemical	350	345	380	400	475	500
4.32.22 Other fluting medium	5	5	5	5	5	5
4.32.3 Kraft wrapping and packaging paper:	1,190	1,180	1,230	1,245	1,255	1,255
4.32.31 Sack kraft	925	915	930	935	940	940
4.32.32 Other kraft wrapping and packaging paper	265	265	300	310	315	315
4.32.4 Folding boxboard:	460	535	650	700	845	915
4.32.41 Solid bleached board	230	225	280	285	285	290
4.32.42 Other folding boxboard	230	310	370	415	560	625
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	280	260	265	260	260	260
4.32.51 Paper	150	150	150	145	140	140
4.32.52 Paperboard	130	110	115	115	120	120
4.33 Other paper and paperboard, n.e.s., total:	420	415	500	515	525	550
4.33.1 Paper, n.e.s.	240	240	255	260	260	265
4.33.2 Paperboard, n.e.s.	180	175	245	255	265	285

[illegible]

89 Country: SWITZERLAND

	1975	1976	1977	1978	1979	1980
	----- 1,000 metric tons per year -----					
4 Paper and Paperboard, total:	950	950	955	955	960	960
4.1 Newsprint	200	200	200	200	200	200
4.2 Other printing and writing paper, total:	285	285	285	285	285	285
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	245
4.22.1 Wood containing	130	130	130	130	130	130
4.22.2 Wood free	115	115	115	115	115	115
4.3 Other paper and paperboard, total:	465	465	470	470	475	475
4.31 Household and sanitary paper	65	65	70	70	75	75
4.32 Wrapping and packaging paper and paperboard, total:	360	360	360	360	360	360
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	140
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.	-	-	-	-	-	-

[illegible]

90 Country: UNITED KINGDOM

	1975	1976	1977	1978	1979	1980
	----- 1,000 metric tons per year -----					
4 Paper and Paperboard, total:	4,946	5,108	5,235	5,347	5,446	5,523
4.1 Newsprint	391	394	366	363	361	361
4.2 Other printing and writing paper, total:	1,341	1,376	1,411	1,450	1,489	1,513
4.21 Coated:	417	435	451	463	483	505
4.21.1 Wood containing	77	77	76	75	75	75
4.21.2 Wood free	340	358	375	388	408	430
4.22 Uncoated:	924	941	960	987	1,006	1,008
4.22.1 Wood containing	66	59	66	69	71	72
4.22.2 Wood free	858	882	894	918	935	936
4.3 Other paper and paperboard, total:	3,214	3,338	3,458	3,534	3,596	3,649
4.31 Household and sanitary paper	437	470	476	484	503	525
4.32 Wrapping and packaging paper and paperboard, total:	2,183	2,250	2,333	2,374	2,410	2,434
4.32.1 Linerboard:	329	346	356	376	381	410
4.32.11 Kraft liner:	-	-	-	-	-	-
4.32.11.1 Unbleached	-	-	-	-	-	-
4.32.11.2 Bleached	-	-	-	-	-	-
4.32.12 Other linerboard	329	346	356	376	381	410
4.32.2 Fluting medium:	457	500	526	538	562	558
4.32.21 Semi-chemical	170	170	175	178	179	180
4.32.22 Other fluting medium	287	330	351	360	383	378
4.32.3 Kraft wrapping and packaging paper:	206	206	209	213	214	215
4.32.31 Sack kraft	77	77	77	77	77	77
4.32.32 Other kraft wrapping and packaging paper	129	129	132	136	137	138
4.32.4 Folding boxboard:	483	500	506	509	513	514
4.32.41 Solid bleached board	1	1	1	1	1	1
4.32.42 Other folding boxboard	482	499	505	508	512	513
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	708	698	736	738	740	737
4.32.51 Paper	317	309	321	326	328	326
4.32.52 Paperboard	391	389	415	412	412	411
4.33 Other paper and paperboard, n.e.s., total:	594	618	649	676	683	690
4.33.1 Paper, n.e.s.	290	300	322	335	339	345
4.33.2 Paperboard, n.e.s.	304	318	327	341	344	345

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

91 Country: YUGOSLAVIA

	1975		1976		1977		1978		1979	1980
	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 Wood pulp for making paper and paperboard, total:	510	140	540	140	605	140	625	140	715	740
1.1 Mechanical	100	40	100	40	100	40	100	40	130	140
1.11 of which: non-coniferous	..	..	..	..	..	..	..	..	..	..
1.2 Chemi-mechanical and semi-chemical	40	-	70	-	80	-	85	-	85	85
1.21 of which: non-coniferous	40	-	70	-	80	-	85	-	85	85
1.3 Chemical, total:	370	100	370	100	425	100	440	100	500	515
1.31 Unbleached sulphite	50	20	50	20	105	20	120	20	130	130
1.31.1 of which: non-coniferous	-	-	-	-	-	-	-	-	-	-
1.32 Bleached and semibleached sulphite	100	50	100	50	100	50	100	50	100	100
1.32.1 of which: non-coniferous	50	20	50	20	50	20	50	20	50	50
1.33 Unbleached sulphate and soda	130	-	130	-	130	-	130	-	130	130
1.33.1 of which: non-coniferous	-	-	-	-	-	-	-	-	-	-
1.34 Bleached and semibleached sulphate and soda	90	30	90	30	90	30	90	30	140	155
1.34.1 of which: non-coniferous	90	30	90	30	90	30	90	30	140	155
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)	135	75	135	75	135	75	135	75	135	135
3.1 of which: non-coniferous	135	75	135	75	135	75	135	75	135	135

	1975	1976	1977	1978	1979	1980
	1,000 metric tons per year					
4 Paper and Paperboard, total:	995	1,080	1,120	1,145	1,155	1,155
4.1 Newsprint	110	150	165	170	170	170
4.2 Other printing and writing paper, total:	175	175	175	185	190	195
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	780	790	795	795
4.31 Household and sanitary paper	50	55	60	60	60	60
4.32 Wrapping and packaging paper and paperboard, total:	620	660	670	675	675	675
4.32.1 Linerboard:	..	..	..	..	..	..
4.32.11 Kraft liner:	45	45	45	45	45	45
4.32.11.1 Unbleached	..	..	..	..	..	..
4.32.11.2 Bleached	..	..	..	..	..	..
4.32.12 Other linerboard	..	..	..	..	..	..
4.32.2 Fluting medium:	200	240	250	255	255	255
4.32.21 Semi-chemical	..	..	..	..	..	..
4.32.22 Other fluting medium	..	..	..	..	..	..
4.32.3 Kraft wrapping and packaging paper:	105	105	105	105	105	105
4.32.31 Sack kraft	45	45	45	45	45	45
4.32.32 Other kraft wrapping and packaging paper	60	60	60	60	60	60
4.32.4 Folding boxboard:	170	170	170	170	170	170
4.32.41 Solid bleached board	-	-	-	-	-	-
4.32.42 Other folding boxboard	170	170	170	170	170	170
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	100	100	100	100	100	100
4.32.51 Paper	80	80	80	80	80	80
4.32.52 Paperboard	20	20	20	20	20	20
4.33 Other paper and paperboard, n.e.s., total:	40	40	50	55	60	60
4.33.1 Paper, n.e.s.	20	20	30	35	40	40
4.33.2 Paperboard, n.e.s.	20	20	20	20	20	20

92 Country: AUSTRALIA

92 Country: AUSTRALIA

	1975	1976	1977	1978	1979	1980
	----- 1,000 metric tons per year -----					
4 Paper and Paperboard, total:	1,387	1,481	1,516	1,593	1,681	1,714
4.1 Newsprint	198	198	198	198	198	198
4.2 Other printing and writing paper, total:	230	240	270	320	330	340
4.21 Coated:	38	42	48	49	51	52
4.21.1 Wood containing	25	28	33	33	35	35
4.21.2 Wood free	13	14	15	16	16	17
4.22 Uncoated:	192	198	222	271	279	288
4.22.1 Wood containing	25	27	32	32	33	33
4.22.2 Wood free	167	171	190	239	246	255
4.3 Other paper and paperboard, total:	959	1,043	1,048	1,075	1,153	1,176
4.31 Household and sanitary paper	97	101	106	108	111	114
4.32 Wrapping and packaging paper and paperboard, total:	860	940	940	965	1,040	1,060
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.	-	-	-	-	-	-

93 Country: NEW ZEALAND

[illegible]

	1975	1976	1977	1978	1979	1980
	----- 1,000 metric tons per year -----					
4 Paper and Paperboard, total:	593	744	787	800	810	820
4.1 Newsprint	215	331	347	347	347	347
4.2 Other printing and writing paper, total:	40	40	40	40	40	40
4.21 Coated:	-	-	-	-	-	-
4.21.1 Wood containing	-	-	-	-	-	-
4.21.2 Wood free	-	-	-	-	-	-
4.22 Uncoated:	40	40	40	40	40	40
4.22.1 Wood containing	-	-	-	-	-	-
4.22.2 Wood free	40	40	40	40	40	40
4.3 Other paper and paperboard, total:	338	373	400	413	423	433
4.31 Household and sanitary paper	42	65	74	77	77	77
4.32 Wrapping and packaging paper and paperboard, total:	296	308	326	336	346	356
4.32.1 Linerboard:	106	106	106	106	106	106
4.32.11 Kraft liner:	106	106	106	106	106	106
4.32.11.1 Unbleached	100	100	100	100	100	100
4.32.11.2 Bleached	6	6	6	6	6	6
4.32.12 Other linerboard	-	-	-	-	-	-
4.32.2 Fluting medium:	32	32	32	32	32	32
4.32.21 Semi-chemical	31	31	31	31	31	31
4.32.22 Other fluting medium	1	1	1	1	1	1
4.32.3 Kraft wrapping and packaging paper:	158	170	188	198	208	218
4.32.31 Sack kraft	50	50	50	50	50	50
4.32.32 Other kraft wrapping and packaging paper	108	120	138	148	158	168
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.	-	-	-	-	-	-

FAO WORLD PULP, PAPER AND PAPERBOARD CAPACITY SURVEY 1976

94 Country: USSR (a)

	1975		1976		1977		1978		1979	1980
	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 Wood pulp for making paper and paperboard, total:	8,450	1,300	8,850	1,400	9,250	1,500	9,650	1,600	10,050	10,450
1.1 Mechanical	2,050	-	2,100	-	2,150	-	2,200	-	2,250	2,300
1.11 of which: non-coniferous	..	-	..	-	..	-	..	-	..	..
1.2 Chemi-mechanical and semi-chemical	400	-	450	-	500	-	550	-	600	650
1.21 of which: non-coniferous	..	-	..	-	..	-	..	-	..	..
1.3 Chemical, total:	6,000	1,300	6,300	1,400	6,600	1,500	6,900	1,600	7,200	7,500
1.31 Unbleached sulphite	2,650	350	2,700	350	2,750	350	2,800	350	2,850	2,900
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	2,650	800	2,800	900	2,950	1,000	3,100	1,100	3,250	3,400
1.33.1 of which: non-coniferous	..	..	..	..	..	..	..	..	..	..
1.34 Bleached and semibleached sulphate and soda	700	150	800	150	900	150	1,000	150	1,100	1,200
1.34.1 of which: non-coniferous	..	..	..	..	..	..	..	..	..	..

2 Other fibre pulp for making paper and paperboard, total:	400	..	425	..	450	..	475	..	500	525
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)	1,025	1,025	1,100	1,100	1,175	1,175	1,250	1,250	1,325	1,400
3.1 of which: non-coniferous	..	..	..	..	..	..	..	..	..	..

(a) Secretariat estimate.

94 Country: USSR (a)									
	1975	1976	1977	1978	1979	1980			
	1,000 metric tons per year								
4 Paper and Paperboard, total:	9,500	10,000	10,500	11,000	11,500	12,000			
4.1 Newsprint	1,500	1,550	1,600	1,650	1,700	1,750			
4.2 Other printing and writing paper, total:	1,250	1,300	1,350	1,400	1,450	1,500			
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:	6,750	7,150	7,550	7,950	8,350	8,750			
4.31 Household and sanitary paper	115	115	115	115	115	115			
4.32 Wrapping and packaging paper and paperboard, total:	6,000	6,385	6,770	7,155	7,540	7,925			
4.32.1 Linerboard:	1,140	1,220	1,300	1,380	1,460	1,540			
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:	950	1,040	1,130	1,220	1,310	1,400			
4.32.21 Semi-chemical	..	..	..	..	..	..			
4.32.22 Other fluting medium	..	..	..	..	..	..			
4.32.3 Kraft wrapping and packaging paper:	1,010	1,170	1,330	1,490	1,650	1,810			
4.32.31 Sack kraft	830	940	1,050	1,160	1,270	1,380			
4.32.32 Other kraft wrapping and packaging paper	180	230	280	330	380	430			
4.32.4 Folding boxboard:	1,390	1,430	1,470	1,510	1,550	1,590			
4.32.41 Solid bleached board	565	605	640	680	720	760			
4.32.42 Other folding boxboard	825	825	830	830	830	830			
4.32.5 Other wrapping and packaging paper and paperboard, n.e.s.:	1,510	1,525	1,540	1,555	1,570	1,585			
4.32.51 Paper	605	610	620	625	635	640			
4.32.52 Paperboard	905	915	920	930	935	945			
4.33 Other paper and paperboard, n.e.s., total:	635	650	665	680	695	710			
4.33.1 Paper, n.e.s.	330	335	340	345	350	355			
4.33.2 Paperboard, n.e.s.	305	315	325	335	345	355			

(a) Secretariat estimate.

