United States
Department of
Agriculture

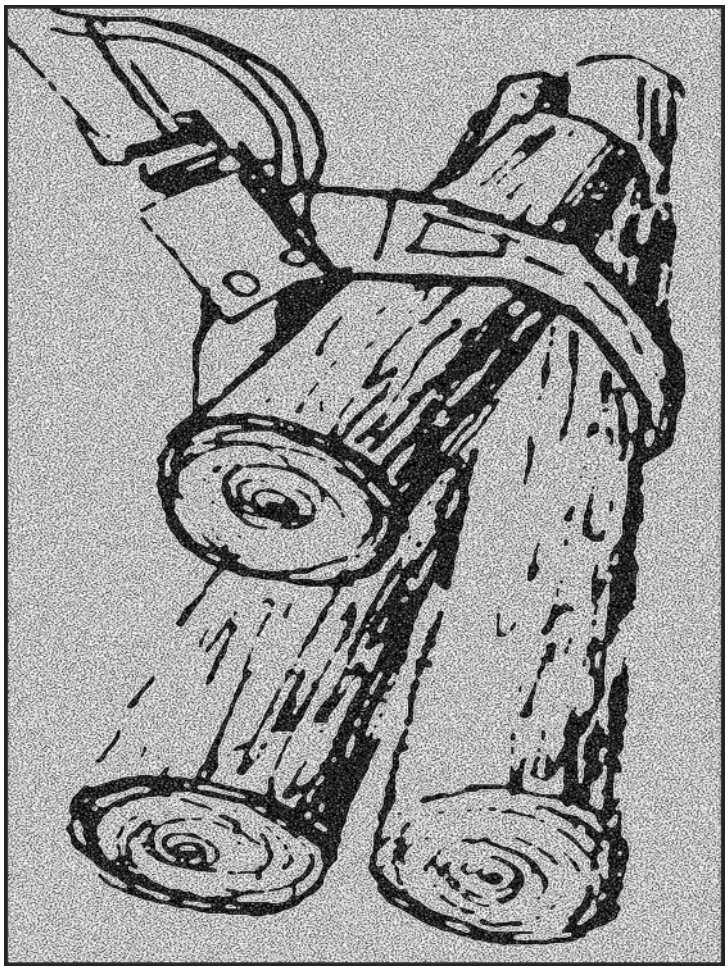
Forest Service

Forest
Products
Laboratory

General
Technical
Report
FPL–GTR–139

Pulp Capacity in the United States, 2000

Brett R. Smith
Robert W. Rice
Peter J. Ince



Abstract

Production capacities of all woodpulp mills in the United States are identified by location, ownership, and process type. For each mill, production capacity is reported for the year 2000 by process type; total mill capacities are also reported for 1961, 1965, 1979, 1974, and 1983. In addition, the report summarizes the recent history and current status of woodpulp production capacity in the United States.

Keywords: woodpulp capacity, pulp mills, capacity trends, geographic distribution

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September 2003

Smith, Brett R.; Rice, R.W.; Ince, Peter J. 2003. Pulp capacity in the United States, 2000. Gen. Tech. Rep. FPL–GTR–139. Madison, WI: U.S. Department of Agriculture, Forest Service, Forest Products Laboratory. 23 p.

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Pulp Capacity in the United States, 2000

Brett R. Smith, Research Assistant, Department of Forest Management
Robert W. Rice, Professor of Wood Science, Wood Science and Technology
University of Maine, Orono, Maine

Peter J. Ince, Research Forester
Forest Products Laboratory, Madison, Wisconsin

Introduction

This report summarizes the current state and recent history of woodpulp production capacity in the United States. Detailed information on current and historical capacity, ownership, and location is presented for each U.S. woodpulp mill. The information is organized by State, region, and type of pulp manufactured. Also included are summary tables and exhibits that analyze trends in average capacity, total capacity, pulpwood receipts, pulp production, and capacity by region using historical data. Previous summaries of wood pulp capacity have been published (Anon. 1959, 1961, 1965; McKeever 1977, 1987).

The information in this report is taken from several sources, including industry directories and publicly available corporate information, principally Paperloop Publications (2001). Idled mills are accounted for in various ways by reporters, which has led to discrepancies in capacity and production data.

During the 20th century, U.S. woodpulp capacity increased greatly, while the total number of mills producing woodpulp generally decreased. From 1920 to 2000, for example, total U.S. woodpulp capacity grew from just over 15,000 short tons per day (TPD) to approximately 180,000 TPD. During this period, the total number of mills producing woodpulp dropped from 323 to 202.

Pulpwood Production and Capacity Trends

After climbing fairly steadily throughout the 20th century, annual U.S. woodpulp production peaked historically in 1995 and then dropped by 12% over the next 7 years. The trend in U.S. woodpulp production is illustrated in Figure 1. The trend includes estimates of woodpulp produced for paper and paperboard products, dissolving pulp, and mechanical pulp produced for construction paper and wet machine board.[1]

Figure 2 illustrates the trends in U.S. woodpulp production and production capacity since 1950. As illustrated, both woodpulp production and production capacity reached historical peaks in the mid- to late1990s and capacity peaked in 1997, according to data published by the American Forest & Paper Association (AF&PA 2001a).

U.S. woodpulp capacity has receded since 1997, according to AF&PA data, but capacity has not receded as much as production, because a number of mills were idled yet have remained in place. The AF&PA estimate of woodpulp capacity for the year 2000 was around 70 million short tons, equivalent to roughly 195,000 tons/day (AF&PA 2001b). The AF&PA data include capacity to produce woodpulp for paper and paperboard, construction paper, wet machine board, and dissolving pulp, but they do not include capacity to produce defibrated/exploded wood pulp for hardboard, insulating board or medium density fiberboard (MDF). Thus, the AF&PA total capacity estimate for 2000 (roughly 195,000 tons/day) agrees very closely with our total potential capacity estimate (202,790 tons/day) after deducting the estimated capacity for defibrated/exploded pulp at

[1] U.S. dissolving pulp capacity is reported by AF&PA, but dissolving pulp production has not been reported since 1992. In that year, dissolving pulp annual capacity was 1.46 million tons and the ratio of production to capacity (or capacity utilization) was 86%. The dissolving pulp capacity of the United States has been declining for decades, and capacity receded to 1.18 million tons in 2000. Woodpulp capacity includes dissolving pulp capacity (Fig. 2). Estimates of woodpulp production shown in the figures include an approximation of dissolving pulp production based on an assumed 86% capacity utilization rate for dissolving pulp since 1992.

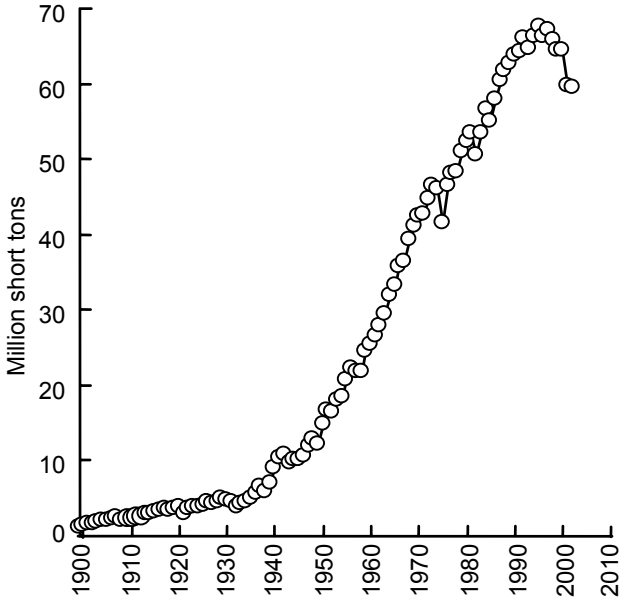

Figure 1—Annual U.S. woodpulp production, 1900–2002.

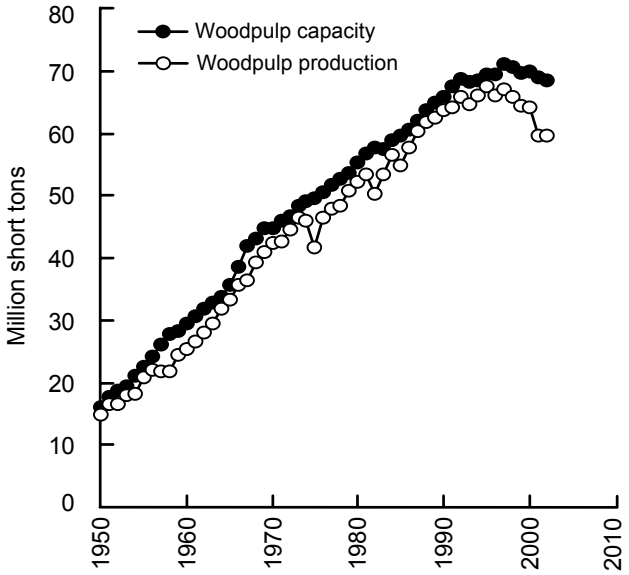

Figure 2—Annual U.S. woodpulp production and production capacity, 1950–2002.

hardboard, insulating board, and MDF mills (7,858 tons/day) (see Appendix). In addition to capacity data for defibrated/exploded pulp at hardboard, insulating board, and MDF mills, the data in this report include pulp mills that were actively in production and mills that were reportedly idled. Thus, the estimates of total capacity are total "potential" capacity. About 10% of the total potential U.S. woodpulp capacity was reportedly idled in 2000.

In 2001, capacity utilization for woodpulp was approximately 86%, a level last experienced during the energy crisis of the mid-1970s and previously experienced only during the recessions of the late 1950s and early 1960s and at the end of the Great Depression in 1940. Several circumstances have contributed to the recent declines in U.S. woodpulp production and capacity utilization and the leveling of woodpulp capacity.

An exceptional increase in the trade-weighted value of the U.S. dollar, which began in 1996 and extended through 2001, contributed to a decline in U.S. pulp, paper, and paperboard exports, while simultaneously attracting a flood of imports. The strong dollar along with other economic factors also contributed to recession in the overall U.S. manufacturing sector in 2000 and 2001, dampening domestic demands for paper and paperboard in packaging, business, and advertising media. Thus, U.S. purchases of paper and paperboard dropped by 7.5% between 1999 and 2001, while production dropped by 8.4%. Also contributing to the leveling and decline in woodpulp production has been the significant increase in the use of recycled fiber in the manufacture of paper and paperboard in the United States since the 1980s. The consumption of recovered paper for recycling at U.S. paper and paperboard mills climbed from 20.2 million tons in 1989 to 31.4 million tons in 1995 and 37.9 million tons in 2000 (AF&PA 2001b).

Precise annual data are not available on the production of exploded/defibrated pulp for hardboard, insulating board, and MDF. However, output data suggest that roughly 3 million tons of defibrated/exploded pulp were produced for those products in 2000. Production of insulating board and hardboard has been declining in recent decades, while MDF production has been increasing. The product output data indicate that annual production of defibrated/exploded pulp for those products in aggregate has increased by roughly 1 million tons over the past several decades.

The annual woodpulp capacity data (Fig. 2) reveal a decelerating trend in growth over recent decades. For example, in the 25-year period between 1940 and 1965, capacity increased at a compound growth rate of 5.1%/year. Over the subsequent 25-year period (1965 to 1990), capacity increased at a compound growth rate of 2.5%/year, just less than half the growth rate in the preceding 25 years. In the 16 years between 1985 and 2001, capacity increased at a compound growth rate of just 0.9%/year, and since the mid-1990s U.S. woodpulp capacity has actually receded.

Likewise, annual woodpulp production data reveal a decelerating trend in growth over recent decades, but with a more pronounced decline since the peak of production in 1995. In the 25-year period between 1940 and 1965, U.S. woodpulp production increased at a compound growth rate of 5.4%/year. Over the subsequent 25 years (1965 to 1990), production increased at a compound growth rate of

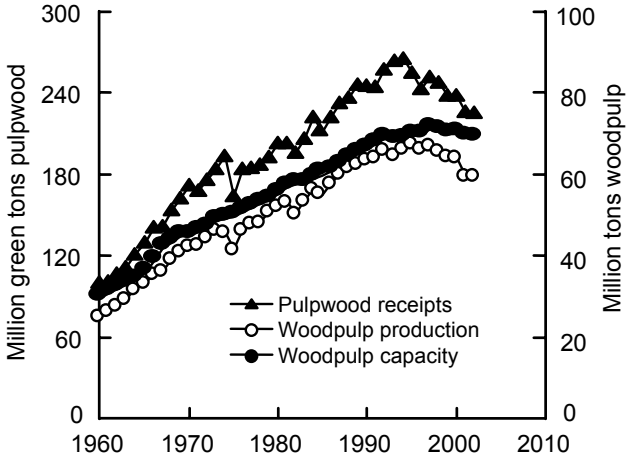

Figure 3—Annual U.S. woodpulp production, capacity, and pulpwood receipts, 1960–2002.

2.6%/year, again just less than half the growth rate in the preceding 25 years. In the 16 years between 1985 and 2001, production increased at a compound growth rate of just 0.5%/year, and U.S. woodpulp production declined substantially (by 11.7%) between the peak in 1995 and 2001 (Fig. 1).

Trends in Pulpwood Receipts

Trends in pulpwood receipts at woodpulp mills have generally followed trends in total woodpulp production. According to data on pulpwood receipts published by the Forest Resources Association (formerly American Pulpwood Association), the annual volume of pulpwood receipts at U.S. woodpulp mills increased fairly steadily over most of the 20th century, along with woodpulp production. However, pulpwood receipts peaked in 1994, just a year before the peak in woodpulp production.

Subsequently, between 1994 and 2001, pulpwood receipts at U.S. woodpulp mills declined by 14.8%; between 1995 and 2002 U.S. woodpulp production declined similarly, by 11.9%. The trend in U.S. pulpwood receipts at woodpulp mills is illustrated in Figure 3, along with the generally correlated trend in U.S. woodpulp production and lagging trend in woodpulp capacity.

The mix of hardwoods and softwoods in total U.S. pulpwood receipts (roundwood and residues) has also shifted over time, although the proportion of softwoods in pulpwood receipts has generally been higher than that of hardwoods. According to historical data published by the Forest Resources Association, the shift in species mix generally favored hardwoods from the 1950s to 1990s, with the hardwood fraction of total pulpwood receipts increasing from 14% in 1950 to 24% in 1970 and peaking at 38% in 1994 (the same year total pulpwood receipts peaked). In recent years, the hardwood fraction leveled and then declined slightly, standing at 36% in 2001.

The trends in regional volumes and proportions of pulpwood receipts at woodpulp mills have favored the South, with declining proportions in the West and North. By 2001, the South alone accounted for just over three-fourths (76%) of all U.S. pulpwood receipts, according to data published by the Forest Resources Association (Forest Resources Association 2002). This reflects a generally increasing volume of pulpwood receipts at woodpulp mills in the South, until the volume of receipts leveled in the mid-1990s. Meanwhile, the annual volume of receipts in the North climbed more gradually and then declined in the early 1990s (declining more significantly in the Northeast), while the annual volume of receipts in the West increased until the mid-1980s, then subsequently declined (APA 1989).

Pulpwood receipts in the South increased from 59% of total U.S. pulpwood receipts in 1960 to 65% in 1980 and 76% by 2001. Pulpwood receipts in the North fell from 21% of total U.S. pulpwood receipts in 1960 to 16% in 1980 and 14% by 2001. Pulpwood receipts in the West were 20% of total U.S. pulpwood receipts in 1960 and 19% in 1980, but they have dropped significantly since the 1980s, to just 10% by 2001 (APA 1989, Forest Resources Association 2002).

Pulpmill Capacity

Although total U.S. woodpulp capacity has leveled since the late 1990s, capacity generally grew from 1920 to 2000, reaching a total of 182,440 tons/day in 2000, or approximately 66,591,000 tons/year (excluding idled capacity). Since 1920, woodpulp capacity has grown at an average compound growth rate of approximately 3.2%/year, although the rate of growth has decelerated over time. Woodpulp manufacture has changed significantly since 1920, with regard to the average size of production facilities, the mix of pulp types being made, and the locations where the pulp is manufactured.

The average pulpmill increased from 47 TPD in 1920 to 865 TPD in 2000 (weighted averages, Table 1). The increase occurred as a result of several factors. New mills coming online have been designed with capacities far larger than their predecessors to take advantage of economies of scale. Demand has grown significantly, requiring larger facilities; smaller, older mills that were not cost competitive because of outdated technology or size have closed. Newly constructed mills producing sulfate pulp have the largest capacities, often exceeding 2,000 tons/day in a single mill (Table 1). The average capacity of a sulfate mill was 1,220 TPD in 2000, dwarfing all other pulp mill types. In 2000, the average sulfite mill was capable of producing 336 TPD, the average mechanical pulp mill 399 TPD, and the average semi-chemical mill 454 TPD.

Table 1—Average capacity of U.S. wood pulp mills by grade (short tons/day)

	Sulfite		Sulfate		Mechanical		Semichemical	
Year	Number	Avg. cap.	Number	Avg. cap.	Number	Avg. cap.	Number	Avg. cap.
1920	96	57	52	47	175	42		
1930	89	80	70	80	136	60	13	23
1940	80	108	69	189	100	74	10	69
1950	67	136	78	294	91	95	22	133
1955	67	150	83	409	93	103	80	104
1961	62	180	95	537	87	147	58	172
1965	54	209	101	619	77	172	57	191
1970	41	249	121	734	71	207	54	232
1974	33	297	120	826	64	226	50	275
1983	21	364	122	991	79	279	44	322
2000	13	336	114	1,220	52	399	23	454

Regional Pulpmill Capacity

Another change in the woodpulp industry is the shift in capacity towards the South and away from the Northeast, the North Central, and the West regions, as shown by Figure 4 (Paperloop Publications 2001). About 70% of the nation's capacity to manufacture woodpulp lies in the South, an increase from 55% in 1959. In other regions, woodpulp capacity remained flat or decreased over the same period.

Capacity data for U.S. woodpulp mills are shown in Tables 2 to 5 in the Appendix.

Grade Structure

As shown in Figure 5, sulfate (kraft) pulp remains the most extensively produced woodpulp by a wide margin, making up 76% of total U.S. woodpulp manufacturing capacity, an increase of 3% since 1983. Approximately 139,000 TPD of kraft pulp can be produced in the United States by 114 mills, an increase from 121,000 TPD capacity among 122 mills in 1983. This net increase in capacity and loss in total production facilities means that the average kraft mill could produce 160 more tons per day in 2000 than in 1983 (Table 1).

Capacity for semichemical pulp reversed its previous growth trend and declined between 1983 and 2000. Semichemical capacity decreased by approximately 4,000 TPD (to 10,440 TPD), while the size of an average mill climbed considerably over that in 1983 (454 TPD). Mechanical pulp capacity increased by about 6,500 TPD (to 28,521 TPD, Table 5).

Sulfite pulp continued the slide in total capacity begun in the 1960s, falling from 7,650 TPD in 1983 to 4,367 TPD in 2000. The average sulfite mill produced 336 TPD in 2000, the only grade to have a decrease in average mill size since 1983.

Concluding Remarks

After growing at an annual rate of 5.4%/year between 1940 and 1965, woodpulp production in the United States slowed to 2.6%/year between 1965 and 1990 and declined by 11.7% between 1995 and 2001. The strength of the U.S. dollar, soft economic conditions, and the increasing use of recovered paper are among the principal reasons for the decline in both capacity and production. Pulpwood receipts have followed similar trends.

The period from 1920 to 2000 showed the effects of industry consolidation, shifts in pulp preferences, and industry relocation. The number of mills producing pulp declined steadily while the average mill capacity increased.

Kraft pulp, which constituted about 16% of production in 1920, now accounts for about 76% of total production. Moreover, from 1920 to 2000, the average mill capacity for sulfate mills increased from 47 to 1,220 short tons/day.

Relocation has also been an important factor. Although all regions were producing more pulp in 2000 than in 1960, the manufacture of pulp has become increasingly dominated by the Southern region and the percentage of the total produced by all other regions has declined.

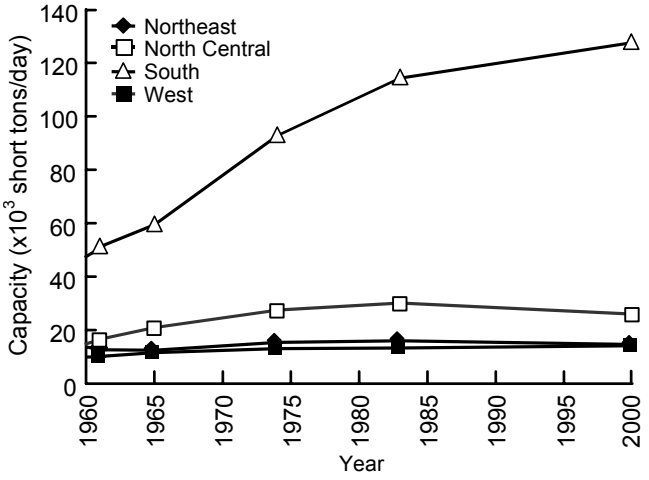

Figure 4—U.S. woodpulp capacity by region, 1960–2000.

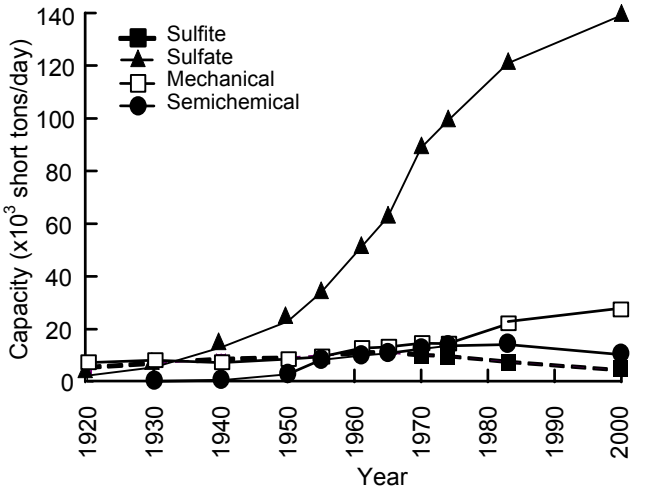

Figure 5—Total U.S. woodpulp capacity by grade, 1920–2000.

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Appendix—Capacity Data

Forest Service regions are defined in Figure 6.

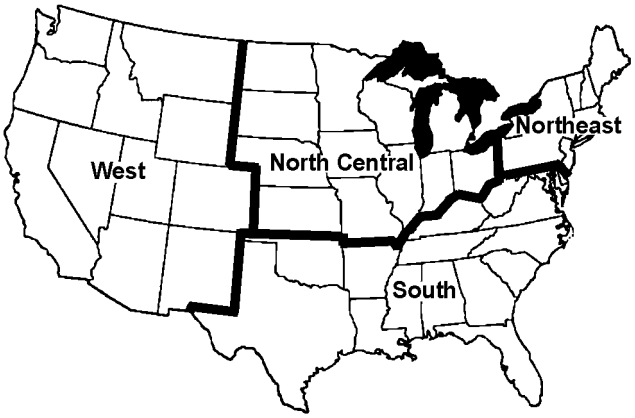

Figure 6—Forest Service Regions.

Northeast—Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont.

North Central—Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, Wisconsin.

South—Alabama, Arkansas, Delaware, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, West Virginia.

West—Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming.

Capacity data for U.S. woodpulp mills are shown in Tables 2 to 5. Table 2 is a general summary of capacity data by Forest Service region, State, and type of mill as of the year 2000. Capacity data for specific mills by region, State, and type of mill for selected years are given in Table 3. Table 3 also includes total capacity, idled capacity, total potential capacity, total number of mills, and total number of plants for each State. Table 4 is a historical summary of regional capacity since 1959, and Table 5 summarizes capacity by grade since 1920.

Table 2—Summary of woodpulp mills in the U.S. by region and state, type of mill, and capacity (short tons/day)—2000

	Total		Sulfite		Sulfate		SGW		TMP/RMP		Semi-chemical		Defib./exploded	
State and region	Mills	Capacity	Mills	Capacity	Mills	Capacity	Mills	Capacity	Mills	Capacity	Mills	Capacity	Mills	Capacity
Northeast														
Maine	16	8,796	1	539	6	4,710	5	1,420	4	656	0	0	0	0
Maryland	1	882	0	0	1	882	0	0	0	0	0	0	0	0
New Hampshire	2	610	0	0	1	350	0	0	0	0	1	260	0	0
New York	6	2,020	2	470	1	530	2	470	0	0	0	0	1	550
Pennsylvania	5	2,330	0	0	4	2,230	0	0	0	0	0	0	1	700
Total	30	14,638	3	1,009	13	8,702	7	1,890	4	656	1	260	2	1,250
North Central														
Indiana	1	300	0	0	0	0	0	0	0	0	1	300	0	0
Iowa	1	150	0	0	0	0	0	0	0	0	1	150	0	0
Michigan	9	3,675	0	0	3	2,345	0	0	2	280	3	1,500	1	400
Minnesota	8	3,992	0	0	2	2,122	3	1,050	1	370	0	0	2	450
Ohio	4	1,090	0	0	1	1,000	0	0	0	0	1	575	2	90
Wisconsin	19	4,982	4	850	4	2,145	4	693	3	574	1	1,100	3	330
Total	42	14,189	4	850	10	7,612	7	1,743	6	1,224	7	3,625	8	1,270
South														
Alabama	18	19,913	0	0	12	17,495	0	0	3	1,020	2	1,350	1	48
Arkansas	9	7,634	0	0	6	5,900	1	0	0	0	0	0	2	420
Florida	5	6,738	1	473	4	6,265	0	0	0	0	0	0	0	0
Georgia	13	20,859	0	0	11	18,334	0	0	1	2,000	1	525	0	0
Kentucky	3	2,400	0	0	2	2,250	0	0	0	0	1	150	0	0
Louisiana	16	16,201	0	0	10	14,211	2	562	1	388	3	1,040	0	0
Mississippi	8	9,595	0	0	6	7,600	0	0	1	895	0	0	1	1,100
North Carolina	11	8,635	0	0	5	7,290	0	0	2	300	1	250	3	795
Oklahoma	3	2,200	0	0	1	1,650	0	0	0	0	1	500	1	50
South Carolina	10	11,433	0	0	6	9,248	0	0	2	1,525	1	300	1	360
Tennessee	6	4,875	0	0	3	3,250	0	0	1	1,100	1	400	1	125
Texas	8	7,580	0	0	5	5,830	1	800	1	450	0	0	1	500
Virginia	8	9,521	0	0	3	6,611	1	400	1	880	2	1,300	1	330
Total	118	127,584	1	473	74	105,934	5	1,762	13	8,558	13	5,815	12	3,728
West														
Arizona	2	210	0	0	0	0	1	150	1	60	0	0	0	0
California	4	1,350	0	0	2	950	0	0	0	0	0	0	2	400
Idaho	1	1,300	0	0	1	1,300	0	0	0	0	0	0	0	0
Montana	1	1,800	0	0	1	1,800	0	0	0	0	0	0	0	0
Oregon	16	8,100	0	0	7	5,355	0	0	3	1,235	1	400	5	1,110
Washington	17	13,269	5	2,035	6	7,409	0	0	5	3,485	1	340	0	0
Total	41	26,029	5	2,035	17	16,814	1	150	9	4,780	2	740	7	1,510
U.S. Total	231	182,440	13	4,367	114	139,062	20	5,545	32	15,218	23	10,440	29	7,758

Table 3—Capacity of U.S. woodpulp mills by region and State in selected years

Mill no.	Owner	Location	Capacity (short tons/day)											
								2000						
			1961	1965	1970	1974	1983	Total	Sulfite	Sulfate	SGW	CTMP/ TMP/RMP	Semi-chemical	Defib/ exploded
Northeast														
Maine														
1	Eastern Paper Co, Inc.	Lincoln	175	195	210	340	340	440	0	440	0	0	0	0
2	Georgia-Pacific Corp.	Old Town	280	350	550	550	600	600	0	600	0	0	0	0
3	Georgia-Pacific Corp.	Woodland	510	510	950	1,040	1,040	1,400	0	1,400	0	0	0	0
4	Great Northern Paper, Inc.	East Millinocket	880	970	920	920	725	600	0	0	600	0	0	0
5	Great Northern Paper, Inc.	Millinocket	1,135	1,225	1,200	1,350	1,485	645	539	0	0	106	0	0
6	International Paper Co.	Bucksport	320	325	275	330	450	600	0	0	350	250	0	0
7	International Paper Co.	Jay			675	775	1,390	1,471	0	unk.	unk.	0	0	0
8	Madison Paper Industries	Madison	70	170	170	170	300	280	0	0	280	0	0	0
9	Masonite Corp.	Libson Falls	100	100	100	100	100	135	0	0	0	135	0	0
10	Mead Corp.	Rumford	590	600	670	670	935	1,525	0	1,170	190	165	0	0
11	Sappi Fine Paper North America	Hinckley					900	1,100	0	1,100	0	0	0	0
	Total capacity		5,875	6,225	7,020	7,365	8,835	8,796	539	4,710	1,420	656	0	0
	Idled capacity							1,000	0	300	375	325	0	0
	Total potential capacity							9,796	539	5,010	1,795	981	0	0
	Total mills							16	1	6	5	4	0	0
	Total plants							11						
Maryland														
12	Westvaco Corp.	Luke	600	680	745	720	795	882	0	882	0	0	0	0
	Total capacity		630	780	845	820	845	882	0	882	0	0	0	0
	Idled capacity							0	0	0	0	0	0	0
	Total potential capacity							882	0	882	0	0	0	0
	Total mills							1	0	1	0	0	0	0
	Total plants							1						
New Hampshire														
13	Groveton Paper Board Inc.	Groveton	300	330	430	300	300	260	0	0	0	0	260	0
14	Pulp and Paper of America	Berlin	875	450	850	950	1,050	350	0	350	0	0	0	0
	Total capacity		1,265	870	1,380	1,250	1,350	610	0	350	0	0	260	0
	Idled capacity							0	0	0	0	0	0	0
	Total potential capacity							610	0	350	0	0	260	0
	Total mills							2	0	1	0	0	1	0
	Total plants							2						

Table 3—Capacity of U.S. woodpulp mills by region and State in selected years—con.

Mill no.	Owner	Location	Capacity (short tons/day)											
								2000						
			1961	1965	1970	1974	1983	Total	Sulfite	Sulfate	SGW	CTMP/ TMP/RMP	Semi-chemical	Defib/ exploded
New York														
15	Deferiet Paper Co.	Deferiet	320	320	375	240	310	310	0	0	310	0	0	0
16	Fitch, Pruyn, & Co., Inc.	Glens Falls	200	120	250	250	350	350	350	0	0	0	0	0
17	International Paper Co.	Corinth		230	255	255	160	160	0	0	160	0	0	0
18	International Paper Co.	Ticonderoga	125	155	190	590	530	530	0	530	0	0	0	0
19	Lyons Falls Pulp & Paper Inc.	Lyons Falls	135	180	120	120	120	120	120	0	0	0	0	0
20	Norboard Industries Inc.	Deposit		150	100	100	100	550	0	0	0	0	0	550
	Total capacity		2,510	1,830	1,980	2,120	1,800	2,020	470	530	470	0	0	550
	Idled capacity							50	0	0	0	50	0	0
	Total potential capacity							2,070	470	530	470	50	0	550
	Total mills							6	2	1	2	0	0	1
	Total plants							6						
Pennsylvania														
21	Appleton Papers Inc.	Roaring Spring	110	175	180	180	190	200	0	200	0	0	0	0
22	International Paper Co.	Erie	250	400	375	640	640	800	0	800	0	0	0	0
23	Masonite Corp.	Towanda				500	600	700	0	0	0	0	0	700
24	P.H. Glatfelter Co.	Spring Grove	190	245	500	500	500	630	0	630	0	0	0	0
25	Willamette Industries Inc.	Johnsonburg	235	260	270	190	180	600	0	600	0	0	0	0
	Total capacity		1,610	1,865	2,245	2,665	2,840	2,330	0	2,230	0	0	0	700
	Idled capacity							225	0	0	0	0	225	0
	Total potential capacity							2,555	0	2,230	0	0	225	700
	Total mills							5	0	4	0	0	0	1
	Total plants							5						
	Northeast Region Total capacity		11,890	11,570	13,470	14,220	15,670	14,638	1,009	8,702	1,890	656	260	1,250
	Northeast Region Idled capacity							2,157	0	1,182	375	375	225	0
	Northeast Region Total potential capacity							16,795	1,009	9,884	2,265	1,031	485	1,250
	Northeast Region Total mills							30	3	13	7	4	1	2
	Northeast Region Total plants							25						

Table 3—Capacity of U.S. woodpulp mills by region and State in selected years—con.

Mill no.	Owner	Location	Capacity (short tons/day)											
								2000						
			1961	1965	1970	1974	1983	Total	Sulfite	Sulfate	SGW	CTMP/ TMP/RMP	Semi-chemical	Defib/ exploded
North Central														
Indiana														
26	International Paper Co.	Terre Haute	150	150	250	270	270	300	0	0	0	0	300	0
	Total capacity		250	270	370	270	270	300	0	0	0	0	300	0
	Idled capacity							0	0	0	0	0	0	0
	Total potential capacity							300	0	0	0	0	300	0
	Total mills							1	0	0	0	0	1	0
	Total plants							1						
Iowa														
27	Four M Paper Corp.	Fort Madison	100	125	135	140	140	150	0	0	0	0	150	0
	Total capacity		210	235	225	230	230	150	0	0	0	0	150	0
	Idled capacity							0	0	0	0	0	0	0
	Total potential capacity							150	0	0	0	0	150	0
	Total mills							1	0	0	0	0	1	0
	Total plants							1						
Michigan														
28	ABTco, Inc.	Alpena						400	0	0	0	0	0	400
29	American Fibrit Inc.	Battle Creek						30	0	0	0	30	0	0
30	International Paper Co.	Quinnesec						1,035	0	1,035	0	0	0	0
31	Mead Corp.	Escanaba			100	800	800	1,310	0	1,060	0	250	0	0
32	Menasha Corp.	Otsego	110	130	225	225	225	300	0	0	0	0	300	0
33	Packaging Corp. of America	Filer City	565	565	600	400	600	600	0	0	0	0	600	0
34	Sappi Fine Paper North America	Muskegon	135	125	225	240	250	250	0	250	0	0	0	0
35	Smurfit-Stone Container Corp.	Ontonagon	200	400	250	220	440	600	0	0	0	0	600	0
	Total capacity		1,965	2,045	2,085	2,580	2,865	3,675	0	2,345	0	280	1,500	400
	Idled capacity							0	0	0	0	0	0	0
	Total potential capacity							3,675	0	2,345	0	280	1,500	400
	Total mills							9	0	3	0	2	3	1
	Total plants							8						

Table 3—Capacity of U.S. woodpulp mills by region and State in selected years—con.

Mill no.	Owner	Location	Capacity (short tons/day)											
								2000						
			1961	1965	1970	1974	1983	Total	Sulfite	Sulfate	SGW	CTMP/ TMP/RMP	Semi-chemical	Defib/ exploded
Minnesota														
36	Blandin Paper Co.	Grand Rapids	130	200	205	205	300	550	0	0	550	0	0	0
37	Boise Cascade Corp.	International Falls			750	770	920	972	0	972	0	0	0	0
38	CertainTeed Corp.	Shakopee					80	100	0	0	0	0	0	100
39	Georgia-Pacific Corp.	Duluth	140	140	240	240	350	350	0	0	0	0	0	350
40	Hennepin Paper Co.	Little Falls	55	65	65	75	75	60	0	0	60	0	0	0
41	International Paper Co.	Sartell	125	125	125	125	385	370	0	0	0	370	0	0
42	Lake Superior Paper Industries Inc.	Duluth						440	0	0	440	0	0	0
43	Potlatch Corp.	Cloquet	320	400	425	520	475	1,150	0	1,150	0	0	0	0
	Total capacity		2,075	2,385	2,400	2,525	2,685	3,992	0	2,122	1,050	370	0	450
	Idled capacity							100	0	0	0	0	0	100
	Total potential capacity							4,092	0	2,122	1,050	370	0	550
	Total mills							8	0	2	3	1	0	2
	Total plants							8						
Ohio														
44	Atlas Roofing Corp.	Franklin	60	60	60	60	60	50	0	0	0	0	0	50
45	CertainTeed Corp.	Milan	55	55	70	110	110	40	0	0	0	0	0	40
46	Mead Corp.	Chillicothe	300	450	600	600	600	1,000	0	1,000	0	0	0	0
47	Smurfit-Stone Container Corp.	Coshocton	120	300	400	450	575	575	0	0	0	0	575	0
	Total capacity		730	1,125	1,470	1,620	1,735	1,090	0	1,000	0	0	575	90
	Idled capacity							200	0	0	0	0	200	0
	Total potential capacity							1,290	0	1,000	0	0	775	90
	Total mills							4	0	1	0	0	1	2
	Total plants							4						

Table 3—Capacity of U.S. woodpulp mills by region and State in selected years—con.

Mill no.	Owner	Location	Capacity (short tons/day) 1961	1965	1970	1974	1983	2000 Total	Sulfite	Sulfate	SGW	CTMP/ TMP/RMP	Semi-chemical	Defib/ exploded
Wisconsin														
48	Appleton Coated L.L.C.	Combined Locks	50	50	175	200	200	100	0	0	0	100	0	0
49	Fraser Papers Inc.	Park Falls	100	115	115	115	110	150	150	0	0	0	0	0
50	Georgia-Pacific Corp.	Nekoosa	250	290	310	310	335	430	0	430	0	0	0	0
51	Georgia-Pacific Corp.	Port Edwards	120	160	215	215	235	240	240	0	0	0	0	0
52	Georgia-Pacific Corp.	Phillips	40	40	40	40	40	90	0	0	0	0	0	90
53	Georgia-Pacific Corp.	Superior			180	180	180	140	0	0	0	0	0	140
54	Globe Building Materials Inc.	Cornell	50	50	50	50	100	100	0	0	0	0	0	100
55	Inter Lake Papers, Inc.	Kimberly	280	280	150	115	180	145	0	0	145	0	0	0
56	International Paper Co.	Kaukauna	250	300	375	400	400	420	0	420	0	0	0	0
57	Packaging Corp. of America	Tomahawk	360	475	615	620	1,000	1,100	0	0	0	0	1,100	0
58	Stora Enso North America	Niagara	245	275	150	150	210	350	0	0	350	0	0	0
59	Stora Enso North America	Stevens Point	45	90	100	100	230	245	0	0	90	155	0	0
60	Stora Enso North America	Wisconsin Rapids[a]						428	0	0	108	320	0	0
61	Stora Enso North America	Wisconsin Rapids[a]	310	545	655	625	750	1,045	0	1,045	0	0	0	0
62	Wausau-Mosinee Paper Corp.	Brokaw	100	145	145	140	185	260	260	0	0	0	0	0
63	Wausau-Mosinee Paper Corp.	Mosinee	165	200	200	175	210	250	0	250	0	0	0	0
64	Weyerhaeuser Co.	Rothschild	155	170	190	200	200	200	200	0	0	0	0	0
	Total capacity		4,180	4,810	5,015	4,875	5,405	4,982	850	2,145	693	574	1,100	330
	Idled capacity							0	0	0	0	0	0	0
	Total potential capacity							4,982	850	2,145	693	574	1,100	330
	Total mills							19	4	4	4	3	1	3
	Total plants							17						
[a]Wisconsin Rapids kraft and mechanical pulp mills historically combined in one plant														
	North Central Region Total capacity		9,410	10,870	11,565	12,100	13,190	14,189	850	7,612	1,743	1,224	3,625	1,270
	North Central Region Idled capacity							300	0	0	0	0	200	100
	North Central Region Total potential capacity:							14,489	850	7,612	1,743	1,224	3,825	1,370
	North Central Region Total mills:							42	4	10	7	6	7	8
	North Central Region Total plants:							39						

Table 3—Capacity of U.S. woodpulp mills by region and State in selected years—con.

Mill no.	Owner	Location	Capacity (short tons/day)											
								2000						
			1961	1965	1970	1974	1983	Total	Sulfite	Sulfate	SGW	CTMP/ TMP/RMP	Semi-chemical	Defib/ exploded
South														
Alabama														
65	Alabama Pine Pulp Co., Inc.	Perdue Hill						1,375	0	1,375	0	0	0	0
66	Alabama River Newsprint Co.	Perdue Hill						600	0	0	0	600	0	0
67	Alabama River Pulp Co., Inc.	Perdue Hill					1,000	1,265	0	1,265	0	0	0	0
68	Armstrong World Industries Inc.	Mobile						300	0	0	0	300	0	0
69	Boise Cascade Corp.	Jackson		300	470	500	600	800	0	800	0	0	0	0
70	GAF Materials Corp.	Mobile						48	0	0	0	0	0	48
71	Georgia-Pacific Corp.	Pennington	420	490	930	930	1,000	1,100	0	1,100	0	0	0	0
72	Gulf States Paper Corp.	Demopolis	400	400	360	360	500	975	0	975	0	0	0	0
73	International Paper Co.	Courtland			500	550	1,300	2,430	0	2,430	0	0	0	0
74	International Paper Co.	Prattville			860	870	2,220	2,525	0	2,525	0	0	0	0
75	International Paper Co.	Selma			400	500	1,100	1,375	0	1,375	0	0	0	0
76	Mead Coated Board	Cottonton			800	1,000	1,000	2,200	0	2,200	0	0	0	0
77	Mead Containerboard	Stevenson					575	750	0	0	0	0	750	0
78	Smurfit-Stone Container Corp.	Brewton	300	700	800	900	1,100	1,100	0	1,100	0	0	0	0
79	U.S. Alliance Coosa Pines Corp.	Coosa Pines	960	1,005	1,525	1,525	1,730	1,220	0	1,100	0	120	0	0
80	Weyerhaeuser Co.	Pine Hill			900	1,000	1,505	1,850	0	1,250	0	0	600	0
	Total capacity		4,965	5,910	11,370	12,035	16,640	19,913	0	17,495	0	1,020	1,350	48
	Idled capacity							2,975	0	2,975	0	0	0	0
	Total potential capacity							22,888	0	20,470	0	1,020	1,350	48
	Total mills							18	0	12	0	3	2	1
	Total plants							16						
Arkansas														
81	Gaylord Container Corp.	Pine Bluff	150	150	200	200	280	500	0	500	0	0	0	0
82	Georgia-Pacific Corp.	Ashdown			400	400	1,285	2,450	0	2,450	0	0	0	0
83	Georgia-Pacific Corp.	Crossett	655	815	815	1,050	1,400	1,600	0	1,600	0	0	0	0
84	Georgia-Pacific Corp.	North Little Rock			150	150	170	170	0	0	0	0	0	170
85	Green Bay Packaging Inc.	Morrilton			300	360	800	800	0	800	0	0	0	0
86	International Paper Co.	Pine Bluff	1,105	1,300	1,550	1,620	1,455	1,314	0	unk.	unk.	0	0	0
87	Potlatch Corp.	Mcgehee					450	550	0	550	0	0	0	0
88	Willamette Industries Inc.	Malvern						250	0	0	0	0	0	250
	Total capacity		2,525	2,890	4,165	4,530	6,565	7,634	0	5,900	0	0	0	420
	Idled capacity							723	0	723	0	0	0	0
	Total potential capacity							8,357	0	6,623	0	0	0	420
	Total mills							9	0	6	1	0	0	2
	Total plants							8						

Table 3—Capacity of U.S. woodpulp mills by region and State in selected years—con.

Mill no.	Owner	Location	Capacity (short tons/day)											
								2000						
			1961	1965	1970	1974	1983	Total	Sulfite	Sulfate	SGW	CTMP/ TMP/RMP	Semi-chemical	Defib/ exploded
Florida														
89	Buckeye Florida L.P.	Perry	880	910	900	900	1,100	1,200	0	1,200	0	0	0	0
90	Georgia-Pacific Corp.	Palatka	850	850	950	950	1,200	1,510	0	1,510	0	0	0	0
91	International Paper Co.	Cantonment				900	1,730	1,355	0	1,355	0	0	0	0
92	Rayonier	Fernandina Beach	350	375	400	420	450	473	473	0	0	0	0	0
93	Smurfit-Stone Container Corp.	Fernandina Beach	650	700	850	1,700	1,700	2,200	0	2,200	0	0	0	0
	Total capacity		8,430	8,435	8,645	9,695	11,675	6,738	473	6,265	0	0	0	0
	Idled capacity							5,806	0	5,806	0	0	0	0
	Total potential capacity							12,544	473	12,071	0	0	0	0
	Total mills							5	1	4	0	0	0	0
	Total plants							5						
Georgia														
94	Armstrong World Industries	Macon						900	0	0	0	900	0	0
95	Augusta Newsprint Co.	Augusta			300	300	1,200	1,100	0	0	0	1,100	0	0
96	Durango Georgia Paper Co.	St. Marys	800	950	1,000	1,110	1,225	1,125	0	1,125	0	0	0	0
97	Georgia-Pacific Corp.	Brunswick	550	1,120	1,190	1,550	1,700	2,280	0	2,280	0	0	0	0
98	Georgia-Pacific Corp.	Cedar Springs		750	2,000	2,120	2,270	2,825	0	2,300	0	0	525	0
99	Inland Paperboard & Packaging	Rome	760	1,375	1,500	0	0	2,350	0	2,350	0	0	0	0
100	International Paper Co.	Augusta	475	350	700	800	1,200	1,700	0	1,700	0	0	0	0
101	International Paper Co.	Savannah	2,575	2,680	2,900	2,900	3,000	2,700	0	2,700	0	0	0	0
102	Interstate Paper L.L.C.	Riceboro			450	525	525	700	0	700	0	0	0	0
103	Packaging Corp. of America	Valdosta	630	760	870	950	900	1,130	0	1,130	0	0	0	0
104	Rayonier	Jesup	675	675	750	1,200	1,400	1,694	0	1,694	0	0	0	0
105	Riverwood International Corp.	Macon	675	700	825	900	900	1,200	0	1,200	0	0	0	0
106	Weyerhaeuser	Oglethorp					750	1,155	0	1,155	0	0	0	0
	Total capacity		8,105	10,475	13,455	14,870	18,615	20,859	0	18,334	0	2,000	525	0
	Idled capacity							1,690	0	1,590	0	100	0	0
	Total potential capacity							22,549	0	19,924	0	2,100	525	0
	Total mills							13	0	11	0	1	1	0
	Total plants							12						

Table 3—Capacity of U.S. woodpulp mills by region and State in selected years—con.

Mill no.	Owner	Location	Capacity (short tons/day)											
								2000						
			1961	1965	1970	1974	1983	Total	Sulfite	Sulfate	SGW	CTMP/ TMP/RMP	Semi-chemical	Defib/ exploded
Kentucky														
107	Westvaco Corp.	Wickliffe			600	600	650	850	0	850	0	0	0	0
108	Willamette Industries Inc.	Hawesville			500	600	1,275	1,400	0	1,400	0	0	0	0
109	Willamette Industries Inc.	Hawesville						150	0	0	0	0	150	0
	Total capacity		0	0	1,100	1,200	1,925	2,400	0	2,250	0	0	150	0
	Idled capacity							0	0	0	0	0	0	0
	Total potential capacity							2,400	0	2,250	0	0	150	0
	Total mills							3	0	2	0	0	1	0
	Total plants							4						
Louisiana														
110	Boise Cascade Corp.	Deridder				1,380	1,885	1,975	0	1,300	287	388	0	0
111	Crown Vantage Inc.	Saint Francisville			500	500	805	945	0	670	275	0	0	0
112	Gaylord Container Corp.	Bogalusa	1,175	1,485	1,500	1,490	1,560	2,150	0	2,150	0	0	0	0
113	Georgia-Pacific Corp.	Zachary			530	530	1,250	1,728	0	1,728	0	0	0	0
114	International Paper Co.	Bastrop	1,205	1,335	1,700	1,660	1,200	1,285	0	1,285	0	0	0	0
115	International Paper Co.	Mansfield					1,970	2,240	0	1,700	0	0	540	0
116	International Paper Co.	Pineville			850	800	975	1,100	0	1,100	0	0	0	0
117	Riverwood International Corp.	West Monroe	650	650	1,165	1,325	1,980	1,978	0	1,728	0	0	250	0
118	Smurfit-Stone Container Corp.	Hodge	640	650	820	1,650	1,650	1,750	0	1,500	0	0	250	0
119	Willamette Industries Inc.	Campti					750	1,050	0	1,050	0	0	0	0
	Total capacity		5,765	6,340	9,370	10,975	14,085	16,201	0	14,211	562	388	1,040	0
	Idled capacity							0	0	0	0	0	0	0
	Total potential capacity							16,201	0	14,211	562	388	1,040	0
	Total mills							16	0	10	2	1	3	0
	Total plants							10						
	Total plants							8						

Table 3—Capacity of U.S. woodpulp mills by region and State in selected years—con.

Mill no.	Owner	Location	Capacity (short tons/day)											
								2000						
			1961	1965	1970	1974	1983	Total	Sulfite	Sulfate	SGW	CTMP/ TMP/RMP	Semi-chemical	Defib/ exploded
Mississippi														
120	Georgia-Pacific Corp.	Monticello			1,620	1,620	1,700	2,500	0	2,500	0	0	0	0
121	Georgia-Pacific Corp.	New Augusta					1,000	1,550	0	1,550	0	0	0	0
122	International Paper Co.	Moss Point	650	660	700	715	660	450	0	450	0	0	0	0
123	International Paper Co.	Natchez	900	950	950	1,000	1,110	1,225	0	1,225	0	0	0	0
124	International Paper Co.	Redwood			1,200	1,200	1,200	685	0	685	0	0	0	0
125	Masonite Corp.	Laurel	800	1,200	1,000	1,000	1,100	1,100	0	0	0	0	0	1,100
126	Newsprint South Inc.	Grenada						675	0	0	0	675	0	0
127	Weyerhaeuser Co.	Columbus					220	1,410	0	1,190	0	220	0	0
	Total capacity		3,090	3,635	6,005	6,000	6,480	9,595	0	7,600	0	895	0	1,100
	Idled capacity							0	0	0	0	0	0	0
	Total potential capacity							9,595	0	7,600	0	895	0	1,100
	Total mills							8	0	6	0	1	0	1
	Total plants							8						
North Carolina														
128	ABTco, Inc.	Roaring River				100	330	475	0	0	0	0	0	475
129	Blue Ridge Paper Products Inc.	Canton	980	980	1,290	1,400	1,390	1,450	0	1,450	0	0	0	0
130	GAF Manufacturing Corp.	Dudley					100	100	0	0	0	100	0	0
131	Georgia-Pacific Corp.	Conway				120	200	200	0	0	0	200	0	0
132	International Paper Co.	Riegelwood	725	960	1,050	1,100	1,875	2,260	0	2,260	0	0	0	0
133	International Paper Co.	Roanoke Rapids	750	850	900	830	600	1,430	0	1,430	0	0	0	0
134	International Paper Co.	Spring Hope						210	0	0	0	0	0	210
135	SierraPaine Ltd.	Moncure				100	110	110	0	0	0	0	0	110
136	Weyerhaeuser Co.	New Bern			600	640	725	950	0	950	0	0	0	0
137	Weyerhaeuser Co.	Plymouth	1,450	1,500	1,550	1,600	1,655	1,450	0	1,200	0	0	250	0
	Total capacity		4,130	4,565	5,660	6,160	6,985	8,635	0	7,290	0	300	250	795
	Idled capacity							0	0	0	0	0	0	0
	Total potential capacity							8,635	0	7,290	0	300	250	795
	Total mills							11	0	5	0	2	1	3
	Total plants							10						

Table 3—Capacity of U.S. woodpulp mills by region and State in selected years—con.

Mill no.	Owner	Location	Capacity (short tons/day)											
								2000						
			1961	1965	1970	1974	1983	Total	Sulfite	Sulfate	SGW	CTMP/ TMP/RMP	Semi-chemical	Defib/ exploded
Oklahoma														
138	G-P Gypsum Corp.	Pryor	90	45	50	50	50	50	0	0	0	0	0	50
139	Weyerhaeuser Corp.	Valliant				1,800	2,150	2,150	0	1,650	0	0	500	0
	Total capacity		140	95	500	2,300	2,200	2,200	0	1,650	0	0	500	50
	Idled capacity							0	0	0	0	0	0	0
	Total potential capacity							2,200	0	1,650	0	0	500	50
	Total mills							3	0	1	0	0	1	1
	Total plants							2						
South Carolina														
140	Bowater Inc.	Catawba	400	700	750	1,090	1,410	2,350	0	1,350	0	1,000	0	0
141	Georgia-Pacific Corp.	Catawba				300	225	225	0	0	0	225	0	0
142	Georgia-Pacific Corp.	Holly Hill						300	0	0	0	300	0	0
143	International Paper Co.	Eastover					600	2,083	0	2,083	0	0	0	0
144	International Paper Co.	Georgetown	1,990	2,130	2,230	2,310	1,500	985	0	985	0	0	0	0
145	International Paper Co.	Marion					360	360	0	0	0	0	0	360
146	Smurfit-Stone Container Corp.	Florence		460	600	660	1,400	1,530	0	1,530	0	0	0	0
147	Sonoco Products Co.	Hartsville	700	375	400	400	300	300	0	0	0	0	300	0
148	Westvaco Corp.	North Charleston	1,550	1,600	2,000	2,000	2,050	2,300	0	2,300	0	0	0	0
149	Willamette Industries Inc.	Bennettsville						1,000	0	1,000	0	0	0	0
	Total capacity		4,840	5,465	6,480	7,260	7,745	11,433	0	9,248	0	1,525	300	360
	Idled capacity							0	0	0	0	0	0	0
	Total potential capacity							11,433	0	9,248	0	1,525	300	360
	Total mills							10	0	6	0	2	1	1
	Total plants							10						

Table 3—Capacity of U.S. woodpulp mills by region and State in selected years—con.

Mill no.	Owner	Location	Capacity (short tons/day)											
								2000						
			1961	1965	1970	1974	1983	Total	Sulfite	Sulfate	SGW	CTMP/ TMP/RMP	Semi-chemical	Defib/ exploded
Tennessee														
150	Bowater Newsprint	Calhoun	1,375	1,475	1,475	1,200	2,550	2,100	0	1,000	0	1,100	0	0
151	Inland Paperboard & Packaging Inc.	New Johnsonville			395	395	395	400	0	0	0	0	400	0
152	Packaging Corp. of America	Counce	500	650	700	700	1,500	1,950	0	1,950	0	0	0	0
153	Tamko Roofing Products, Inc.	Knoxville					120	125	0	0	0	0	0	125
154	Willamette Industries Inc.	Kingsport	240	225	250	250	250	300	0	300	0	0	0	0
	Total capacity		2,380	2,700	3,180	3,220	5,385	4,875	0	3,250	0	1,100	400	125
	Idled capacity							675	0	0	450	0	225	0
	Total potential capacity							5,550	0	3,250	450	1,100	625	125
	Total mills							6	0	3	0	1	1	1
	Total plants							5						
Texas														
155	Abitibi-Consolidated Inc.	Lufkin	1,250	1,250	1,200	1,200	1,200	1,345	0	545	800	0	0	0
156	Abitibi-Consolidated Inc.	Sheldon			950	950	1,775	950	0	500	0	450	0	0
157	Inland Paperboard & Packaging Inc.	Orange			1,000	1,000	1,150	1,150	0	1,150	0	0	0	0
158	International Paper Co.	Domino				610	1,215	1,785	0	1,785	0	0	0	0
159	Temple-Inland Forest Products Corp.	Diboll	130	130	180	300	500	500	0	0	0	0	0	500
160	Westvaco Corp.	Evadale	425	770	1,200	1,250	1,520	1,850	0	1,850	0	0	0	0
	Total capacity		2,590	3,005	5,470	6,205	8,175	7,580	0	5,830	800	450	0	500
	Idled capacity							925	0	875	50	0	0	0
	Total potential capacity							8,505	0	6,705	850	450	0	500
	Total mills							8	0	5	1	1	0	1
	Total plants							6						

Table 3—Capacity of U.S. woodpulp mills by region and State in selected years—con.

Mill no.	Owner	Location	Capacity (short tons/day) 1961	1965	1970	1974	1983	2000 Total	Sulfite	Sulfate	SGW	CTMP/ TMP/RMP	Semi-chemical	Defib/ exploded
Virginia														
161	Bear Island Paper Co., L.L.C.	Ashland					560	880	0	0	0	880	0	0
162	Georgia-Pacific Corp.	Big Island	235	300	510	550	550	750	0	0	0	0	750	0
163	Georgia-Pacific Corp.	Jarratt	200	200	225	225	250	400	0	0	400	0	0	0
164	Greif Brothers Corp.	Riverville					550	550	0	0	0	0	550	0
165	International Paper Co.	Franklin	600	690	1,150	1,430	1,950	2,181	0	2,181	0	0	0	0
166	Masonite Corp.	Danville			330	330	330	330	0	0	0	0	0	330
167	Smufit-Stone Container Corp.	Hopewell	850	1,000	1,000	1,060	900	1,030	0	1,030	0	0	0	0
168	Westvaco Corp.	Covington	980	1,300	1,355	1,355	1,225	1,700	0	1,700	0	0	0	0
169	Smurfit-Stone Container Corp.	West Point						1,700	0	1,700	0	0	0	0
	Total capacity		3,740	4,765	5,810	6,290	7,840	9,521	0	6,611	400	880	1,300	330
	Idled capacity							0	0	0	0	0	0	0
	Total potential capacity							9,521	0	6,611	400	880	1,300	330
	Total mills							8	0	3	1	1	2	1
	Total plants							8						
	South Region Total capacity		50,700	58,280	81,210	90,740	114,315	127,584	473	105,934	1,762	8,558	5,815	3,728
	Idled capacity							12,794	0	11,969	500	100	225	0
	Total potential capacity							140,378	473	117,903	2,262	8,658	6,040	3,728
	South Region Total mills							118	1	74	5	13	13	12
	South Region Total plants							104						

Table 3—Capacity of U.S. woodpulp mills by region and State in selected years—con.

Mill no.	Owner	Location	Capacity (short tons/day)											
								2000						
			1961	1965	1970	1974	1983	Total	Sulfite	Sulfate	SGW	CTMP/ TMP/RMP	Semi-chemical	Defib/ exploded
West														
Arizona														
170	Abitibi-Consolidated Inc.	Snowlfake	250	450	495	820	940	210	0	0	150	60	0	0
	Total capacity		250	495	495	820	940	210	0	0	150	60	0	0
	Idled capacity							700	0	700	0	0	0	0
	Total potential capacity							910	0	700	150	60	0	0
	Total mills							2	0	0	1	1	0	0
	Total plants							1						
California														
171	Masonite Corp.	Ukiah	300	350	350	350	390	0	0	0	0	0	0	unk
172	Samoa-Pacific Cellulose	Samoa		500	550	600	600	700	0	700	0	0	0	0
173	Shasta Paper Co.	Anderson		150	225	150	225	250	0	250	0	0	0	0
174	SierraPine Ltd.	Rocklin					400	400	0	0	0	0	0	400
	Total capacity		1,095	1,785	2,615	3,180	3,160	1,350	0	950	0	0	0	400
	Idled capacity							1,474	0	1,404	0	0	70	0
	Total potential capacity							2,824	0	2,354	0	0	70	400
	Total mills							4	0	2	0	0	0	2
	Total plants							4						
Idaho														
175	Potlatch Corp.	Lewiston	650	700	800	850	1,100	1,300	0	1,300	0	0	0	0
	Total capacity		650	700	800	850	1,100	1,300	0	1,300	0	0	0	0
	Idled capacity							0	0	0	0	0	0	0
	Total potential capacity							1,300	0	1,300	0	0	0	0
	Total mills							1	0	1	0	0	0	0
	Total plants							1						
Montana														
176	Smurfit-Stone Container Corp.	Missoula	600	700	1,150	1,150	2,035	1,800	0	1,800	0	0	0	0
	Total capacity		600	700	1,150	1,150	2,035	1,800	0	1,800	0	0	0	0
	Idled capacity							0	0	0	0	0	0	0
	Total potential capacity							1,800	0	1,800	0	0	0	0
	Total mills							1	0	1	0	0	0	0
	Total plants							1						

Table 3—Capacity of U.S. woodpulp mills by region and State in selected years—con.

Mill no.	Owner	Location	Capacity (short tons/day)											
								2000						
			1961	1965	1970	1974	1983	Total	Sulfite	Sulfate	SGW	CTMP/ TMP/RMP	Semi-chemical	Defib/ exploded
Oregon														
177	Blue Heron Paper Co.	Oregon City	420	420	570	650	420	350	0	0	0	350	0	0
178	Boise Cascade Corp.	St. Helens	375	385	825	850	965	955	0	955	0	0	0	0
179	Collins Products	Klamath Falls		150	150	150	150	150	0	0	0	0	0	150
180	Evanite Fiber Corp.	Corvallis	30	30	100	100	100	120	0	0	0	0	0	120
181	Georgia-Pacific Inc.	Clatskanie			970	960	1,160	1,325	0	1,000	0	325	0	0
182	Georgia-Pacific Inc.	Toledo	600	900	1,075	1,325	1,340	1,500	0	1,100	0	0	400	0
183	Georgia-Pacific Inc.	Lebanon					190	190	0	0	0	0	0	190
184	Masonite Corp.	Pilot Rock	130	130	130	130	130	130	0	0	0	0	0	130
185	Pope & Talbot Inc.	Halsey			300	300	350	530	0	530	0	0	0	0
186	SierraPine Ltd.	Medford						520	0	0	0	0	0	520
187	SP Newsprint Co.	Newberg	150	150	520	520	900	420	0	0	0	420	0	0
188	Stimson Lumber Co.	Gaston	70	100	100	100	140	140	0	0	0	140	0	0
189	Weyerhaeuser Co.	Springfield	400	1,150	1,150	1,150	1,090	1,090	0	1,090	0	0	0	0
190	Willamette Industries Inc.	Albany	240	400	500	700	800	680	0	680	0	0	0	0
	Total capacity		3,490	5,700	8,275	8,720	8,945	8,100	0	5,355	0	1,235	400	1,110
	Idled capacity							2,100	0	1,800	0	0	300	0
	Total potential capacity							10,200	0	7,155	0	1,235	700	1,110
	Total mills							16	0	7	0	3	1	5
	Total plants							15						

Table 3—Capacity of U.S. woodpulp mills by region and State in selected years—con.

Mill no.	Owner	Location	Capacity (short tons/day)											
								2000						
			1961	1965	1970	1974	1983	Total	Sulfite	Sulfate	SGW	CTMP/ TMP/RMP	Semi-chemical	Defib/ exploded
Washington														
191	Abitibi-Consolidated Inc.	Steilacoom				300	450	660	0	0	0	660	0	0
192	Boise Cascade Corp.	Wallula	375	500	630	700	910	1,079	0	859	0	0	220	0
193	Daishowa America Co., Ltd.	Port Angeles	500	505	195	300	710	380	0	0	0	380	0	0
194	Georgia-Pacific Corp.	Camas	1,065	1,300	1,225	1,200	1,250	1,800	500	1,300	0	0	0	0
195	Georgia-Pacific West, Inc.	Bellingham	470	520	550	580	620	650	650	0	0	0	0	0
196	Inland Empire Paper Co.	Spokane	140	135	125	140	170	310	0	0	0	310	0	0
197	Kimberly-Clark Corp.	Everett	790	820	850	835	835	485	485	0	0	0	0	0
198	Longview Fibre Co.	Longview	1,390	1,555	1,780	2,100	2,100	2,520	0	2,400	0	0	120	0
199	North Pacific Paper Corp.	Longview					1,400	1,435	0	0	0	1,435	0	0
200	Ponderay Newsprint Co.	Usk						700	0	0	0	700	0	0
201	Port Townsend Paper Corp.	Port Townsend	420	420	420	420	445	550	0	550	0	0	0	0
202	Simpson Tacoma Kraft Co.	Tacoma	800	800	900	1,090	1,090	1,200	0	1,200	0	0	0	0
203	Weyerhaeuser Co.	Cosmopolis	400	350	400	400	450	400	400	0	0	0	0	0
204	Weyerhaeuser Co.	Longview	730	1,080	1,200	1,325	950	1,100	0	1,100	0	0	0	0
	Total capacity		9,185	10,350	10,735	11,350	12,740	13,269	2,035	7,409	0	3,485	340	0
	Idled capacity							825	825	0	0	0	0	0
	Total potential capacity							14,094	2,860	7,409	0	3,485	340	0
	Total mills							17	5	6	0	5	1	0
	Total plants							15						
	West Region Total capacity		15,270	19,730	24,070	26,070	28,920	26,029	2,035	16,814	150	4,780	740	1,510
	Idled capacity							5,099	825	3,904	0	0	370	0
	Total potential capacity							31,128	2,860	20,718	150	4,780	1,110	1,510
	West Region Total mills							41	5	17	1	9	2	7
	West Region Total plants							37						
	US Total capacity		87,270	100,450	130,315	143,130	172,095	182,440	4,367	139,062	5,545	15,218	10,440	7,758
	US Idled capacity							20,350	825	17,055	875	475	1,020	100
	US Total potential capacity							202,790	5,192	156,117	6,420	15,693	11,460	7,858
	US Total mills							231	13	114	20	32	23	29
	US Total plants												205	

Table 3 corrected January 2004. Capacity in short tons/day.

Table 4—Number and capacity (short tons/day) of woodpulp mills by region

	Northeast			North Central			South			West		
		Capacity			Capacity			Capacity			Capacity	
Year	Number	Total	Average	Number	Total	Average	Number	Total	Average	Number	Total	Average
1959	80	13,910	174	70	9,870	141	76	44,750	589	56	13,625	243
1961	75	12,700	169	71	10,130	143	85	51,130	602	52	16,635	320
1965	67	12,520	187	69	11,605	168	87	59,440	683	57	21,030	369
1974	52	15,434	297	63	13,097	208	120	92,723	773	57	27,508	483
1983	40	16,035	401	50	13,370	267	117	114,315	977	47	30,135	641
2000	30	14,638	488	42	14,189	338	118	127,584	1,081	41	26,029	635

Table 5—Total capacity (short tons/day) of U.S. pulp mills by grade

Year	Sulfite	Sulfate	Mechanical[a]	Semichemical	Total
1920	5,490	2,420	7,430	—	15,340
1930	7,115	5,585	8,190	295	21,185
1940	8,675	13,055	7,425	685	29,840
1950	9,115	22,970	8,640	2,935	43,660
1955	10,020	33,910	9,560	8,310	61,800
1961	11,130	51,050	12,805	9,960	84,945
1965	11,260	62,530	13,270	10,860	97,920
1970	10,205	88,850	14,670	12,515	126,240
1974	9,801	99,060	14,494	13,735	137,090
1983	7,650	120,905	22,080	14,160	164,795
2000	4,367	139,062	28,521	10,440	182,440

[a]Mechanical includes difibrated/exploded pulp.