



United States
Department of
Agriculture

Forest Service

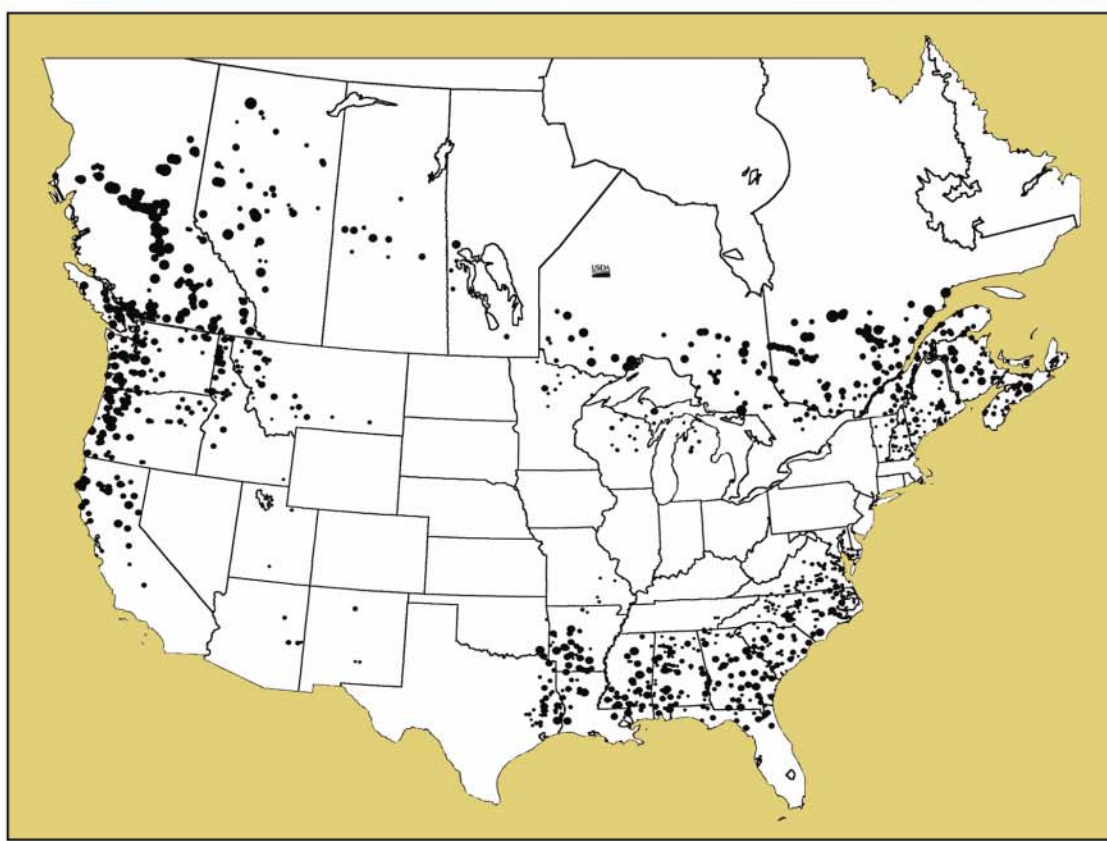
Forest
Products
Laboratory

Research
Paper
FPL- RP- 608



Profile 2003: Softwood Sawmills in the United States and Canada

Henry Spelter
Matthew Alderman



Abstract

About 160 fewer softwood sawmills are operating in the United States and Canada than were 8 years ago. Nevertheless, the combined capacity of the remaining mills has increased by 16%, to over 173 million cubic meters. Of the approximately 1,140 mills, about 470 characterize their output as dimension lumber, accounting for 67% of capacity; 136 list studs as their primary output, representing 16% of the industry's volume; and 139 are primarily board mills, making up a little over 5%. The others make a variety of specialty products. In this report, the location and relative size of sawmills by State and Province are described in maps and tables. The data show that growth in capacity over the past 8 years has exceeded growth in demand, leaving the industry with excess capacity of at least 3%. This has contributed to volatile pricing and narrow profit margins within the past 3 years, a condition aggravated by the dispute over Canadian lumber imports.

Keywords: softwood sawmill capacity, lumber, market review

April 2003

Spelter, Henry; Alderman, Matthew. 2003. Profile 2003: Softwood sawmills in the United States and Canada. Res. Pap. FPL-RP-608. Madison, WI: U.S. Department of Agriculture, Forest Service, Forest Products Laboratory. 79 p.

A limited number of free copies of this publication are available to the public from the Forest Products Laboratory, One Gifford Pinchot Drive, Madison, WI 53705-2398. Laboratory publications are sent to hundreds of libraries in the United States and elsewhere.

The Forest Products Laboratory is maintained in cooperation with the University of Wisconsin.

The United States Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, sexual orientation, or marital or familial status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact the USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 1400 Independence Avenue, SW, Washington, DC 20250-9410, or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

Preface

This report updates *Profile 2001: Softwood Sawmills in the United States and Canada*, which was published in March 2001. *Profile 2003* contains information on the location, ownership, and approximate capacity of 1,140 softwood sawmills in the United States and Canada.

A data gathering effort of this size on an activity of private commerce so widely dispersed in ownership and geography is virtually impossible to accomplish error-free. We thank those who have corrected data and informed us of changes since the last report. This version incorporates those changes as well as information on changes resulting from mergers, expansions, new constructions, and permanent closures. We believe we have an accurate tally of the most significant operations, but the possibility remains that some data are outdated. We continue to invite readers to submit corrections if their facilities have been omitted or misrepresented. Inquiries can be sent by e-mail to Henry Spelter (hspelter@fs.fed.us).

Much of the information in this report was obtained from directories of wood-using industries published by regional U.S. and Canadian forestry departments. Additional sources for data on sawmill characteristics and ownership were the *Directory of the Wood Products Industry* (Miller Freeman 1999), the *Big Book* (Random Lengths Publications, Inc. 2002), *Madison's Canadian Lumber Directory* (Madison's Canadian Lumber Reporter 2002), company press releases, Securities and Exchange Commission (SEC) filings, and company Web sites. We acknowledge the cooperation of the many individuals who patiently helped us fill gaps in our data.

We are grateful to Dave Darr, Richard Haynes, Bill Lange, Dave McKeever, and Al Schuler for their careful reviews of this report and helpful comments. We also thank former coauthor Tim McKeever for his consulting advice and technical support that helped immeasurably in the preparation of this version of the report.

Profile 2003: Softwood Sawmills in the United States and Canada

Henry Spelter, Economist

Matthew Alderman, Economics Assistant

Forest Products Laboratory, Madison, Wisconsin

Introduction

The intent of this report is to provide a comprehensive overview of the size, geographic dispersion, ownership, and capacity of the softwood lumber industry in America and Canada from 1997 to 2003 and to assess economic conditions in the industry.

Among the major industrial groups, the softwood lumber sector is one of the most disaggregated. As of April 2003, about 1,140 sawmills in the United States and Canada concentrated exclusively, or in large part, on making softwood lumber. The capacity and production of these large, permanent plants are reported in Appendix B and summarized in Table 1. Data on numerous small or seasonal softwood lumber operations are not reported because these do not make a significant amount of lumber.

Appendix B also includes information on capacity and production of panel and pulping operations. Adding these data to lumber production provides estimates of timber drain. These can be contrasted with timber inventories to gauge the relative physical scarcity or abundance of softwood in a given region. Additionally, the mill distribution maps for the United States show softwood timber inventories within counties (indicated by shading), derived from the latest USDA Forest Service timber inventory data. The following sections describe the industry capacity data and the influence of recent events on its evolution.

Table 1—Summary of capacity and production of U.S. and Canadian softwood lumber sawmills from 1997 to 2003

Year	Mills (no.)	Capacity ($\times 10^6$ m ³)	Production ($\times 10^6$ m ³)	Capacity utilization (%)
1997	1,276	157	146	93
1998	1,265	162	147	91
1999	1,254	169	155	92
2000	1,246	173	153	89
2001	1,214	173	150	87
2002	1,163	174	157	90
2003	1,140	174	—	—

Capacity Data

Appendix B lists sawmills for 1997 to 2003, by location and capacity. These data were obtained from a diverse set of sources, as described in the preface. By necessity, capacity data for 2003 and for the terminal years in previous reports were based on projections provided by firms or extensions of previous data. These data are subject to change, as actual performance data are obtained and corrections of omissions, errors, or misclassifications are made. The extent of potential revisions can be judged by comparing current capacity values with those initially reported (Table 2).

Much of the challenge in compiling this list revolved around expressing the data in comparable units. There is no general pattern of operation in sawmilling. Most large mills run two shifts per day, but some run three shifts and others only one. Shifts also range from the standard 8 h/day to 9 or 10 h and often vary as a result of market conditions. The capacity data reported here reflect the normal mode of operation of a given mill. Thus, in many cases, the potential for physical production may be higher. The addition of a shift is one cause of data revisions illustrated in Table 2.

Mills in the United States and Canada estimate their capacities in board feet. These values were converted to cubic meters using the international convention of 2.36 m³ per thousand board feet. This conversion can be misleading because the actual dimensions of many lumber items are

Table 2—Capacity estimates reported in current and previous Profiles

Year	Profile 1999 ($\times 10^6$ m ³)	Profile 2001 ($\times 10^6$ m ³)	Profile 2003 ($\times 10^6$ m ³)
1995	148	149	149
1996	151	152	152
1997	156	157	157
1998	157	162	162
1999	158	167	169
2000	—	168	173
2001	—	166	173
2002	—	—	174
2003	—	—	174

smaller than their nominal sizes, resulting in true cubic volume conversions of 1.6 to 1.7. Thus, the metric capacities reported here tend to overstate actual physical volumes. However, for the purpose of estimating capacity utilization, where production is divided by capacity, this is of no consequence because the errors cancel out.

This report also contains typical sawtimber prices across regions. Again, placing these data on a comparable footing was an issue.

In the United States, sawtimber prices are generally reported per board foot, as estimated from local log scaling rules. However, a variety of such rules exist, and the measurement of a log by one rule may be different from its measurement by another. Converting board feet to cubic feet is further complicated by the fact that conversion is dependent on log diameter, length, taper, and defects. If these differ by region or change over time, then the appropriate conversion also changes.

In previous reports we converted U.S. prices per board foot to cubic meters using factors of 5.3, 4.8, and 4.5 m³ per thousand board feet for the U.S. West Coast, remaining States except Maine, and Maine, respectively. Upon further investigation, however, we found these factors to be outdated, reflecting an era when logs were substantially bigger than those generally used today. Consequently, we revised our conversion factors to more closely align with contemporary log sizes. Even with these revisions we caution users not to assume that the price data are wholly equivalent. Measurement conventions and utilization standards differ in different regions. Thus a “cubic meter” of a log in one region may be tallied as more or less than a “cubic meter” in another, affecting its apparent value. Appendix A presents the derivation of the conversion factors used for different regions and types of timber.

Economic Background

A discussion of softwood lumber industry capacity over the past 3 years can begin by considering the influence of wider economic conditions. Perhaps the most significant of these is the unwinding of the U.S. expansion. A string of interest rate increases implemented in the spring of 2000 slowed consumption of goods, which in turn precipitated a more drastic liquidation of business inventories later in the year. The decade-long expansion consequently reached its apex in 2000.

A seemingly gentle recession that followed masked deeper problems in manufacturing. A relatively strong economy and higher U.S. interest rates boosted the value of the dollar against other currencies. In an ever more global economy, manufacturing operations in the United States became disadvantaged and facilities were shifted to lower cost countries. One result was a growing deficit in the U.S. balance of trade (Fig. 1).

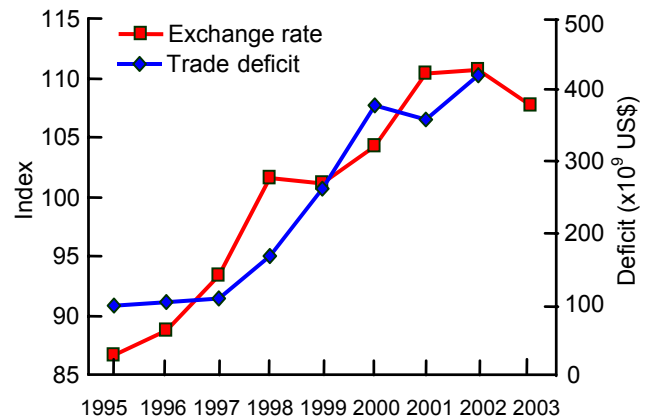


Figure 1—Real, broad index of the dollar exchange rate (Federal Reserve) compared to real trade deficit (Bureau of Economic Analysis).

The depth of the problems in manufacturing and the collapse in stock values impelled the U.S. central bank (Federal Reserve) to drastically reverse course in early 2001. A series of cuts brought interest rates down to the lowest levels since the 1950s. This ameliorated the severity of the contraction as consumers availed themselves of cheaper credit to finance purchases. However, the availability of this liquidity made little difference for the beleaguered manufacturing sector, as much of the revived consumer spending served only to bolster imports. Domestic producers were still saddled with excess capacity, leaving little incentive to invest in more regardless of easier credit conditions.

The change in monetary policy, however, did have ramifications on the value of the dollar. Money serves primarily as a medium of exchange but also as a store of value. When investment returns in the United States lagged and risks were perceived to rise, investors shifted investments out of dollar denominated assets into other areas. This has made the biggest difference in the dollar–euro relationship. The euro has appreciated by over a quarter since its 2001 trough. However, many other currencies are pegged to the dollar and have not experienced similar corrections. Thus, the overall trade-weighted exchange rate has decreased less and has made little impact on the trade deficit. Calls for countries to unpeg their currencies have increased. However, there is little inclination to do this, and for at least the near term the pressure on U.S. manufacturers is likely to remain.

These events have influenced forest products in varying degrees. The most significant impact has been on labor-intensive, value-added manufacturers of wood products. Furniture, woodturnings, molding, and other processed goods are increasingly being sourced from lower cost producers outside the United States. Imports of wood furniture, for example, have doubled in the last 5 years (Emanuel and Rhodes 2002). Pulp and paper manufacturers have also been

hard hit, losing nearly 10% of their capacity in a 3-year slump.

For softwood lumber, there have been both positive and negative consequences. Exports have never been a very big share of U.S. sales, so the large percentage drops in shipments overseas have meant relatively little in absolute terms. Imports from non-Canadian sources, on the other hand, doubled in volume from 1999 to 2002; the 4.5 million m³ of imports accounted for approximately 3.4% of U.S. consumption. However, this rising tide of nontraditional imports, much of it coming from Europe, hit a wall in the latter half of 2002 as the euro rebounded. Our estimates, based on a continued strong euro, indicate no further growth in 2003 from this source (Fig. 2).

The most beneficial effect of macroeconomic trends on the lumber sector has been to boost housing. Although construction of multi-family homes has remained relatively modest while shipments of manufactured homes have been moribund, these weaknesses have been more than offset by strong single-family construction. Using a method similar to that described in Spelter (1988), our projections of 2003 housing starts, near 1.7 million units, reflect a continuation of these trends (Fig. 3). Likewise, repair and remodeling has been a good source of demand for wood.

These pockets of strength amid otherwise soft or unremarkable sectors (nonresidential building, manufacturing, shipping) have kept lumber consumption levels high. Overall, 2002 consumption was near a record (132 million m³). We projected a slight increase to 133 million m³ in 2003 (Fig. 4).

Despite robust demand, lumber pricing in the second half of 2002 was weak. This was all the more surprising considering that a large part of the supply originating from Canada was handicapped for more than half the year by duties amounting to 27%. In an industry where margins averaging 5% over the course of a business cycle are considered good, a duty of such size should have depressed activity. Yet far from reducing imports, the duties even failed to stop their rise: Canadian shipments to the United States actually increased by 2% in 2002.

Industry Capacity

Against this backdrop, 2002 industry capacity rose. Only one new mill came on line, but several built earlier ramped up to full potential. The closure or conversion (to hardwood) of more than 50 sawmills was not enough to offset capacity increases resulting from retooling or adding of shifts at existing operations. The total rose by approximately 0.8 million m³.

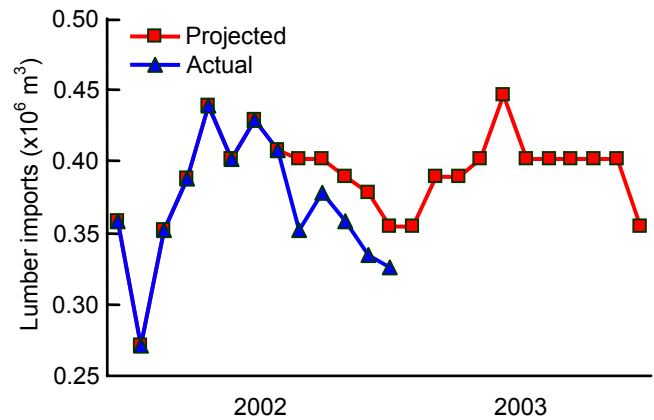


Figure 2—Actual and projected (Forest Products Laboratory, November 2002) softwood lumber imports from non-Canadian sources, 2002–2003.

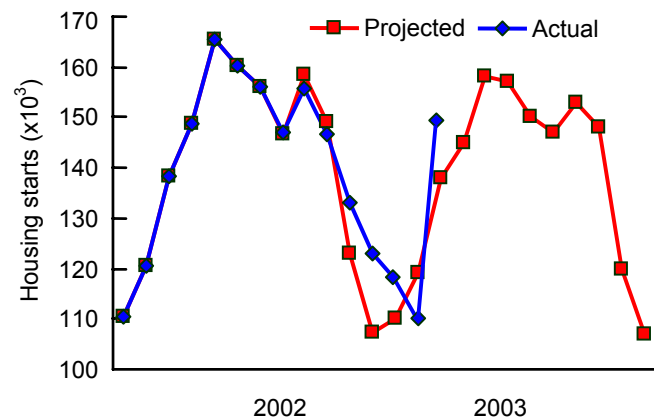


Figure 3—Actual and projected (Forest Products Laboratory, November 2002) U.S. monthly housing starts, 2002–2003.

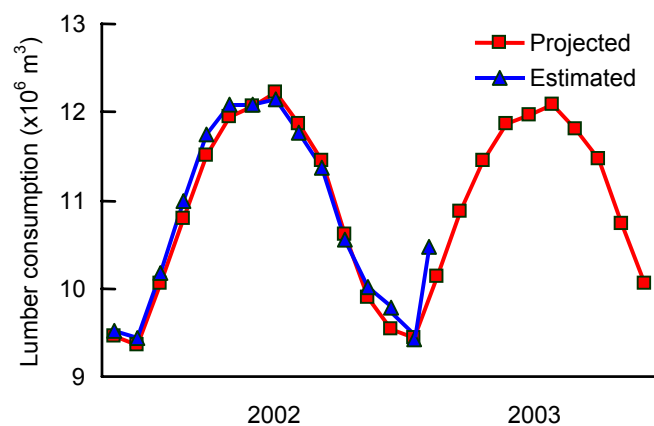


Figure 4—Estimated and projected ((Forest Products Laboratory, November 2002) U.S. monthly softwood lumber consumption, 2002–2003.

Table 3—Softwood sawmill capacity by region from 1997 to 2003

Region ^a	1997	1998	1999	2000	2001	2002	2003
Volume ($\times 10^6$ m ³)							
U.S. South	40.6	41.9	43.1	44.3	44.4	44.4	44.8
U.S. North	4.7	5.2	5.3	5.3	4.9	5.0	5.1
U.S. West	41.9	43.1	44.0	45.4	43.7	42.9	42.9
BC	35.5	35.0	36.4	37.0	37.8	38.6	38.1
Other Canada	34.2	37.0	39.8	41.0	42.0	42.8	42.6
Total	156.9	162.1	168.5	172.9	172.9	173.7	173.5
Index							
U.S. South	1	1.03	1.06	1.09	1.09	1.09	1.10
U. S. North	1	1.09	1.11	1.11	1.04	1.05	1.07
U. S. West	1	1.03	1.05	1.08	1.04	1.02	1.02
BC	1	0.98	1.02	1.04	1.07	1.09	1.07
Other Canada	1	1.08	1.16	1.20	1.23	1.25	1.25
Total	1	1.03	1.08	1.10	1.10	1.10	1.10

^aBC designates British Columbia.

This trend is likely to reverse by a small amount in 2003 (Table 3) as a result of continued mill closures, not withstanding some new projects and the addition of shifts at existing sites.

In the U.S. South, one new line in Moundville, Alabama, was added in 2003. Capacity also grew through the addition of shifts at some plants. Together with several capital improvement projects, these increases offset closures in Morton and Quitman, Mississippi, in Scotland Neck, North Carolina, and in Suffolk and Bumpass, Virginia.

In the North, capacity gains are predicated on the rebuilding of two closed plants in Costigan and North Anson, Maine. In the West, new mills in Aberdeen and Yakama, Washington, and Chester, California, together with several capacity-boosting projects, offset mill closures in Arcata, Redding, and Fort Bragg, California, in Republic, Enumclaw, and Spanaway, Washington, and in Cave Junction, Oregon.

In Canada, four announced closures were largely balanced by the addition of shifts at other plants. The 2003 capacity figure for British Columbia hinges on the reopening of several mothballed but not yet dismantled plants in the Prince Rupert area.

As a consequence of these and other changes, capacity utilization in the past 3 years (2000–2002) was lower than that in the preceding 3 years (1997–1999), averaging 88.7% versus 91.9%. The 3.2% difference is an approximate indicator of the excess capacity that currently exists in North American sawmilling.

In addition to these changes of a strategic nature, the industry's short-term tactical adjustments to market fluctuations are also of interest. Most visible were curtailments (cuts in output due to downtime, cancelled shifts, reduced operating

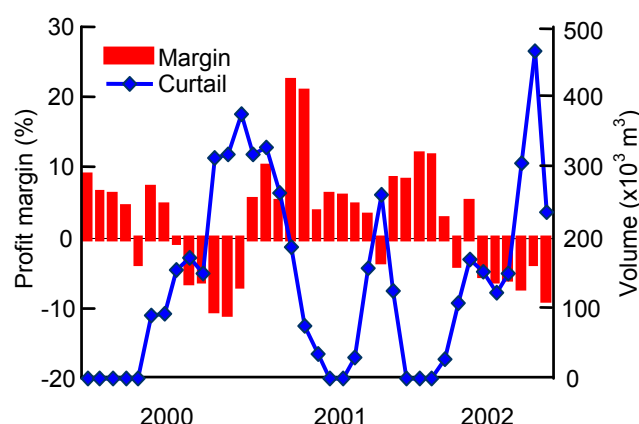


Figure 5—Estimated profit margins for a generic Georgia sawmill of average efficiency versus production volume lost to curtailments in the U.S. South, 2000–2002.

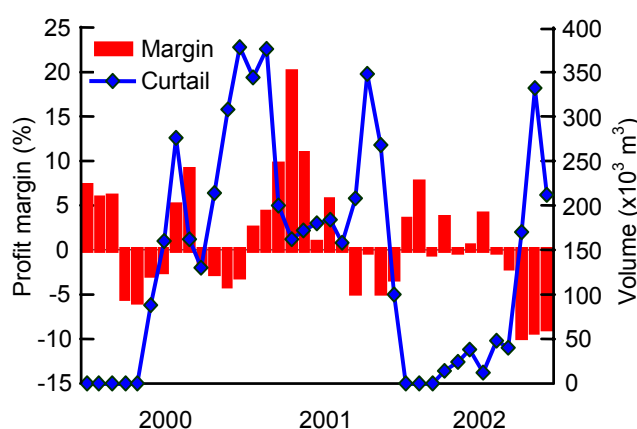


Figure 6—Estimated profit margins for a generic Oregon sawmill of average efficiency versus production volume lost to curtailments in the U.S. West, 2000–2002.

hours, or outright closures) during periods when pricing deteriorated to the point where it became uneconomic to operate. This happened in each of the past 3 years. Figures 5 and 6 illustrate the volume affected in relation to profitability for representative large sawmills of average efficiency in the U.S. South and West. Generally, within 1 to 2 months after margins turned negative, curtailment and downtime announcements began to be posted. Subsequently, these removed in excess of 2 million m³ of supply in each year (Table 4). However, these adjustments tended to be too small and too late to avert major declines in profitability.

In terms of products, the softwood lumber industry can be classified into three principal categories. The largest is dimension lumber, made up of mills primarily producing nominal 2-in.- (standard 38-mm-) thick lumber used in light framing. Approximately 470 mills classify themselves as such, representing two-thirds of the industry (Table 5).

The second largest category is studs. This is a subcategory of dimension lumber consisting chiefly of 2 by 3, 2 by 4, and 2

Table 4—Estimated U.S. production losses due to announced closures and curtailments, 2000–2002

Month	Loss in production ($\times 10^3 \text{ m}^3$) in various years		
	2000	2001	2002
June	180	250	140
July	250	225	210
August	430	170	165
September	335	155	170
October	280	235	190
November	530	500	475
December	625	550	810
Total	2,630	2,080	2,160

Table 5—U.S. and Canadian capacity by product category, 2003

Region	Mill capacity ($\times 10^6 \text{ m}^3$) by product			
	Dimension	Stud	Board	Total
South	36.0	2.4	1.5	44.8
North	1.9	1.1	1.7	5.1
West	25.0	9.5	4.4	42.9
BC	28.1	3.0	0.2	38.1
Prairies	7.8	1.1	—	9.2
E. Canada	18.1	10.9	0.7	33.5
Total	116.8	28.1	8.6	173.5

by 6 lumber in lengths of 7 to 10 ft (2 to 3 m). Stud mills typically use the smallest, lowest grade logs suitable for lumber. The regional distribution is especially noteworthy: almost 40% of the volume of stud production is located in eastern Canada (Ontario, Quebec, Maritime Provinces), where it constitutes about one-third of capacity. This concentration reflects the lower quality and smaller size of the available timber in this region.

The third category is boards, pieces less than nominal 2 in. (standard 38 mm) thick, usually intended for remanufacturing into doors, millwork, windows, and molding. The largest concentration of such mills is in the U.S. West, where it constitutes about 10% of the total.

The remaining mills include those that handle species such as cedar and redwood, mills that process timbers (lumber more than nominal 2 in. (standard 38 mm) thick), and manufacturers of specialty items such as decking, fencing, and siding. Those mills whose main output could not be determined are included in this group as well.

Timber Costs

Data on recent timber costs contained in Appendix B are summarized in Table 6, which also includes ratios of timber drain to gross inventory. Timber drain is approximated by the summation of lumber, plywood, panel, and pulpwood consumption. Gross inventory is the Forest Service estimate of live and dead timber as measured in the course of State forest surveys.

After a major rise in the early 1990s, delivered log prices in the U.S. West peaked in 1993. A notable discount in Washington prices occurred, attributable in part to the large proportion of the market dependent on exports. The falloff in trade with Japan cut demand more than the domestic sawmill capacity base could make up. In response to such favorable logs costs, several mills were built in coastal Washington and major additions were made to some existing sawmills. In the South, prices reached their apex later, in 1998, and their subsequent decline has been more moderate than that in the West. Prices in the two regions thus are now more closely aligned on a common cubic basis (Fig. 7).

The mild decline in southern sawtimber stumpage contrasts with the collapse of pulpwood. Figure 8 shows the relative change in three grades of southern timber from their 1998 peaks. Government conservation programs and incentives from rising timber prices in the 1980s stimulated an upsurge in planting and management intensity. This launched a wave of supply that first appeared in the pulpwood age class in the late 1990s, just as the paper industry faced one of its greatest contractions (Spelter 2000, Siry and Bailey 2003). The combination of reduced demand and increased supply accounts for the dramatic decline in pulpwood values. By contrast, sawtimber demand remained firm in the late 1990s, not as yet affected by the supply from the 1980s planting surge. The so-called chip and saw grade is the next size/grade category to face the wave of maturing pine. A divergence of chip and saw grade prices from sawtimber prices was already evident in 2002.

Table 6 shows a sharp difference between prices paid on the stump in the United States and Canada. This is mainly due to different forestry systems. Canadian leaseholders incur additional forest management obligations and harvesting costs that are not usually borne by their U.S. counterparts. When added to the stumpage, these narrow the gap when prices are compared on a delivered basis. Forest management obligations, together with road building, timber harvesting, and hauling costs, add about US\$57/m³ to the timber price in the coastal region of British Columbia and US\$32/m³ in the interior (Price Waterhouse Coopers 2000). These compare to about US\$15/m³ for southern U.S. log buyers (Timber Mart South 2002).

Table 6—Summary of softwood timber availability indicators and prices

Location	Total inventory (×10 ⁶ m ³)	Average drain inventory ratio	On the stump price (US\$/m ³)			Delivered price (US\$/m ³)		
			2000	2001	2002	2000	2001	2002
U.S. East								
Alabama	359	0.062	58	50	54	73	65	68
Arkansas	265	0.047	46	40	42	68	60	60
Florida	267	0.044	47	44	43	63	57	59
Georgia	431	0.063	55	47	47	68	61	61
Louisiana	281	0.069	48	43	45	63	56	59
Maine	361	0.019	30	30	—	—	—	—
Michigan	255	0.007	21	27	24	—	—	—
Minnesota	131	0.011	30	29	—	—	—	—
Mississippi	261	0.064	57	51	55	65	61	63
Missouri	32	0.010	32	30	28	54	46	49
New Hampshire, Vermont	188	0.007	28	27	26	54	55	56
North Carolina	355	0.036	46	45	45	58	54	57
New York	153	0.007	19	19	19	—	—	—
South Carolina	253	0.055	51	48	48	67	61	59
Tennessee	101	0.025	34	25	31	44	42	43
Texas	223	0.062	46	42	44	69	67	68
Virginia	188	0.040	40	35	37	59	53	51
Wisconsin	132	0.019	26	29	25	—	—	—
U.S. West								
California	555 ^a	0.033	29	—	—	—	—	—
Idaho	252 ^a	0.037	—	—	—	—	—	—
Montana	258 ^a	0.027	—	—	—	69	63	64
Oregon	560 ^b	0.054	70	65	63	90	85	83
Rocky Mountains ^c	710 ^a	0.004	17	—	—	41	—	—
Southwest ^d	462 ^a	0.006	9	—	—	33	—	—
Washington	903 ^a	0.033	51	42	42	70	61	61
Canada								
British Columbia Coast	—	0.009	11	10	12	71	66	66
British Columbia Interior	—	0.009	15	12	12	49	44	43
Quebec	1,700	0.020	16	16	16	—	—	—

^aForest Service timber volumes not included in total inventory.

^bForest Service and Bureau of Land Management timber volumes not included in total inventory.

^cIncludes Colorado, Wyoming, and South Dakota.

^dIncludes Arizona, New Mexico, and Utah.

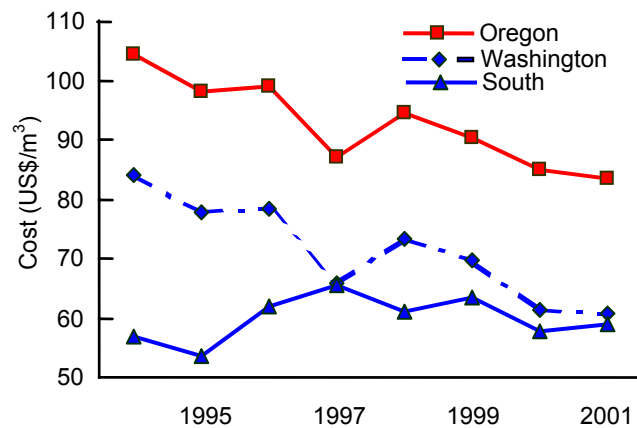


Figure 7—Delivered sawtimber costs in coastal Oregon and Washington and the U.S. South, 1995–2002. (Source: Timber Mart South 2002 and Arbor Pacific Corp. 2002).

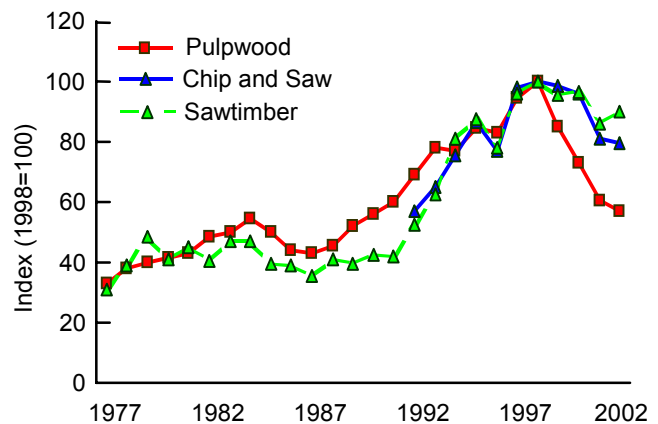


Figure 8—Southern sawtimber prices, 1998 = 100. (Source: Timber Mart South 2002).

The higher costs in coastal British Columbia are noteworthy. More remote and less accessible logging sites often require the use of semi-permanent camps to serve as a base of access. They also require logging by helicopter more often. About 19% of the harvest of coastal British Columbia is logged in that manner. By contrast, of the approximately 11% of USDA Forest Service timber volumes planned for helicopter logging in recent years, about one-third were actually implemented because of sales lapsed through appeals and lawsuits (Richard Toupin, Regional Logging Engineer, USDA Forest Service, Region 6, personal communication).

Another cause of differences in timber pricing is the interplay of supply and demand. Where supply in the form of inventory is large in relation to utilization, prices tend to be lower than in regions where inventory-to-use is small. Figure 9 illustrates the relationship of U.S. stumpage prices to drain/inventory ratios, using data abstracted from Table 6.

Timber prices also reflect lumber prices. One feature of administered Canadian stumpage pricing that many in the United States view as conferring an advantage is an automatic quarterly adjustment linked to downstream product (primarily lumber) prices. A review of pricing relationships in five U.S. regions where we maintain cost tracking data, however, showed that much the same effect occurs as a natural outcome of market mechanisms in the United States. Spot stumpage prices, with few exceptions, follow lumber prices with a 1 to 2 month lag, similar to the Canadian system (Fig. 10). In previous decades, when the Forest Service was a major provider of timber in the U.S. West, some of its larger sales required several years to complete. This tended to cause prices actually paid for harvested timber to lag behind trends in the lumber market, but this benefited buyers in periods of rising prices because the price was locked in at the lower levels that prevailed when the bid was accepted. When prices fell, however, this became a double-edged sword. In the 1970s many buyers faced ruin as timber bought earlier became uneconomic to harvest as a result of a collapse in lumber prices. The Forest Service was obliged to accommodate these buyers to prevent wholesale collapse of the western lumber industry. In the wake of this crisis, changes were made to timber contracts requiring greater bond deposits as well as price adjustment clauses, which modified timber prices according to changes in downstream markets, similar to the Canadian model.

Discussion

Recent events in the softwood lumber industry can be best understood when viewed through the prism of its most prevalent condition, overcapacity. Capacity utilization has been running over 3 percentage points lower than in the period 1997 to 1999. Attempts to cope with this have cov-

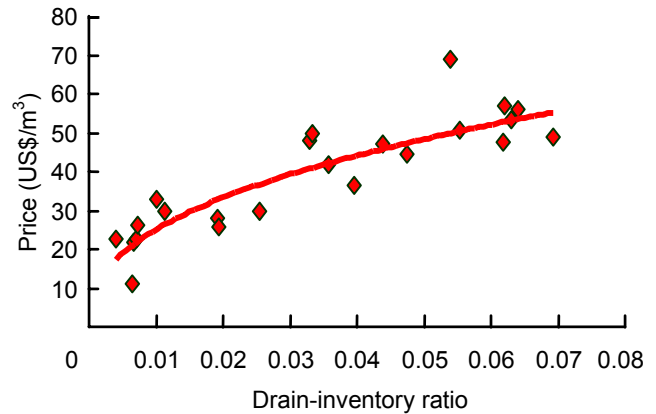


Figure 9—Timber drain/inventory ratios for selected U.S. States in relation to standing timber prices.

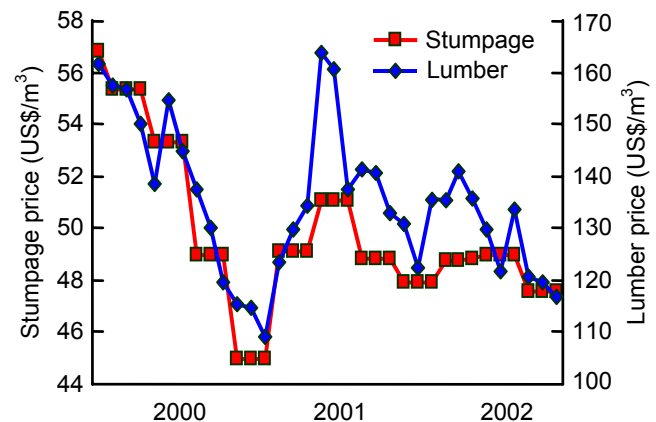


Figure 10—Georgia pine stumpage prices, lagged 2 months (Timber Mart South 2002), and 2 by 4 pine lumber prices (Crows 2002).

ered a spectrum ranging from technological upgrades of mills, consolidation among companies, attrition, and, most notably, trade disputes. To date, none has fully succeeded in changing the underlying condition.

Since 1995, some 200 plants have closed, yet capacity is 16% higher. Imports from nontraditional sources have become significant. Exports have faded as a result of the strong dollar. New products have chipped away at traditional lumber uses such as joists and decking. Lumber is even displacing itself in its own markets as 2 by 3 lumber, derived by necessity from increasingly smaller logs, has dislodged some 2 by 4s in non-load-bearing partitions and truss webs. Few, if any, significant new markets have emerged to offset these losses. As a result, the lumber business is facing the travails of a mature industry competing within a slow growing, cyclical, and highly competitive market.

The major market event of 2002 occurred in May when duties averaging 27% on most Canadian imports were implemented. Notwithstanding the added costs, imports from Canada increased from the prior year's levels.

Despite strong housing activity and robust lumber demands, lumber pricing has been notably weak. The start of declining prices actually coincided with the imposition of Canadian import levies that began to be collected on May 22, 2002. Almost immediately lumber prices weakened. This was initially the result of a substantial inflow of lumber into the United States during a 4-week tax-free window of opportunity. After those volumes were digested, however, imports resumed at normal rates. Meanwhile, U.S. and offshore producers ramped up. In 2002, western U.S. production rose about 7% and southern output jumped about 5% while non-Canadian imports shot up by nearly 40%. Under the weight of these volumes, prices collapsed and trailed off through year's end.

This raises fundamental questions about the role that the tariffs played in the evolution of lumber prices in 2002. First, how effective is a duty when it is applied against producers for whom there are few alternative markets that can absorb their output? For interior British Columbia and eastern Canadian mills, dependency ratios on exports to the United States of 60% and 70% are not uncommon. Do tariffs affect such parties differently than others for whom market opportunities are more diverse?

Second, how effective is even a large tariff when its final disposition is subject to a long period of uncertainty during which the issue is appealed and is subject to judicial modification? Canadian appeals of the tariffs to the World Trade Organization (WTO) and the North American Free Trade Area (NAFTA) are ongoing. They leave open the possibility that the tariffs will be rescinded or reduced. In such circumstances, do smaller but certain tariffs exert a more potent influence on markets than larger but unsure amounts?

A third issue is what role, if any, the dumping portion of the tariffs played in raising output from some Canadian firms. Did it encourage a high output strategy among those Canadian operators against whom a dumping margin had been calculated? Adding shifts cuts the overhead portion of costs, which leads to lower dumping margins when the tariffs are reviewed. Volume in the aggregate from many of the affected companies rose. Did the dumping duties have a role in stimulating such a response?

A last question is the degree to which alternative markets can be developed to help absorb the excess capacity that currently exists. A similar situation confronted the fledgling plywood industry in the 1930s. Plywood is such a fixture today that it is easy to forget that it was once a new and unfamiliar product with a mixed record of performance. Lack of standards and inappropriate use led many to regard it as an inferior product. The approach to dealing with overcapacity then was to promote market growth. Under the dynamic leadership of W. E. Difford, managing director of the then Douglas Fir Plywood Association, vigorous product promotion campaigns were devised. Basic but necessary preparatory work on codes and standards was undertaken,

consumer and builder information campaigns were mounted, and new product applications were developed. These measures succeeded in expanding markets enough to absorb the industry's growth.

In particular, a similar marketing/research question for the industry today is how big a potential market for lumber China represents. With a climate similar to North America's in much of that country, the advantages of wood construction that favor its use here could apply in many areas there. The use of lumber for construction in that region, however, is not common. In an environment where lumber use has been limited and unfamiliar, could marketing efforts along the lines of the plywood precedent be effective in fostering its use?

These and other questions arise as the U.S. lumber industry grapples with issues of excess capacity, slow growth, and weak pricing

References

Arbor Pacific Corporation. 2002. Log lines. Mount Vernon, WA: Arbor Pacific Corporation.

Beck, T.L. 2001. Statistical yearbook of the western lumber industry. Portland, OR: Western Wood Products Association: 9–12.

Cahill, J. 1984. Log scale conversion factors. In: Snellgrove, T. and others, eds. User's guide for cubic measurement. Published cooperatively by USDA Forest Service and University of Washington, College of Forest Resources, Seattle, WA.

Crows. 2002. Weekly market report of lumber and panel products. Portland, OR.

Emanuel, D.; Rhodes, C. 2002. Bulletin of hardwood market statistics: first half of 2002. Res. Note. NE-379. Princeton, WV: U.S. Department of Agriculture, Forest Service.

Madison's Canadian Lumber Reporter. 2002. Madison's Canadian lumber directory—45th ed. Vancouver, British Columbia, Canada: Madison's Canadian Lumber Reporter.

Miller Freeman. 1999. Directory of the wood products industry. San Francisco, CA: Miller Freeman Publications, Inc.

Price Waterhouse Coopers. 2000. Average logging costs—British Columbia. Vancouver, British Columbia.

Random Lengths Publications, Inc. 2002. The big book. Eugene, OR: Random Lengths Publications, Inc.

SFPA. 2001. 2001 SFPA annual mill survey. Kenner, LA: Southern Forest Products Association.

Siry, J.P.; Bailey, R.L. 2003. Increasing southern pine growth and its implications for regional wood supply. *Forest Prod. J.* 53(1): 32–37.

Spelter, H. 1988. A simplified two-variable formula for projecting U.S. monthly housing starts. *Forest Prod. J.* 38(1): 17–20.

Spelter, H. 2000. OSB producers are encouraged by adhesives and wood costs. *Panel World.* 41(2): 100–101.

Spelter, H. 2002. Conversion of board foot scaled logs to cubic meters in Washington State, 1970–1998. FPL–GTR–131. Madison, WI: U.S. Department of Agriculture, Forest Service, Forest Products Laboratory.

Timber Mart South. 2002. Market newsletter. Athens, GA: University of Georgia, Warnell School of Forest Resources.

Appendix A—Factors for Converting Board Feet to Cubic Meters

For trade reporting or statistical compilations, a “standard” conversion factor to cubic meters of 4.53 is often used. This factor is traced to a committee of experts organized by the United Nations Food and Agriculture Organization (FAO) after World War II to harmonize reporting of international trade data. That factor was thought to be fairly representative of the size of saw and veneer logs typical for that time. However, conversions are dependent on log diameter, length, taper, and defects. If any of these changes, the conversion factor is affected. In particular, log diameters have changed most in the intervening time because of the declining availability of old-growth timber and its replacement by smaller second-growth and plantation trees. Thus, a conversion of 4.53 is outdated for the present day log mix.

To generate more current conversion factors, we employed two formulas to determine conversion ratios for Scribner scaled logs in (1) coastal Washington and Oregon and (2) everywhere else except New England.

For coastal western regions we broke the conversion factor into two components according to the following tautology:

$$\frac{\text{tabulated bd ft}}{\text{cubic ft}} = V_1 V_2$$

where

$$V_1 = \frac{\text{full cylinder volume}}{\text{truncated cone volume}}$$

$$V_2 = \frac{\text{tabulated bd ft}}{\text{full cylinder volume}}$$

Full cylinder volume is based on the small end and gross length of a log, partially imitating the derivation of the Scribner rule, while the truncated cone volume is derived from both end diameters (as is the definition of most cubic rules).

Then, given that D_s and D_l are the small and large end diameters of a log, respectively, T is its taper, and l is its gross length, the truncated cone volume is defined as

$$3.1412 / (D_s^2 + D_s D_l + D_l^2) / 12$$

Replacing D_l by $D_s + Tl$, this becomes

$$3.1412 / (3D_s^2 + 3D_s Tl + (Tl)^2) / 12$$

Since the full cylinder volume of a log is defined as

$$3.1412 D_s^2 l / 4$$

V_1 simplifies to the following as a function of small-end diameter, taper, and length:

$$V_1 = \frac{1}{(1 + Tl / D_s + (Tl / D_s)^2) / 3}$$

The denominator of the ratio V_2 is the same full cylinder volume as above, while the numerator is taken from the Scribner tables. To avoid the peaks and valleys in V_2 caused by the tabulated Scribner values, a smoothed version of V_2 was obtained by Gaussian kernel smoothing, a technique that flattens the irregularities by averaging values in the vicinity of a point (a given length and diameter) in proportion to the proximity to the point. The program is accessible via the internet at <http://www1.fpl.fs.fed.us/englishconv.html>.

To apply this formula we used the following specifications for the variables for the West Coast:

$$l = 32 \text{ ft}$$

$$T = 1 \text{ in. per 8 ft of length}$$

$D_s = 15$ and 10 in. for No. 2 and No. 3 grade sawmill logs, respectively

These yielded conversion factors of 4.82 and 3.97 board feet per cubic foot, which convert to 5.87 and 7.13 m³ per thousand board feet, respectively.

For other regions where the Scribner small log scale is used, this model does not apply because it was based on measurements using protocols for the long log version of the Scribner rule. For these areas we used a simpler empirical formula solely in terms of the small-end diameter D_s developed by Cahill (1984):

$$\frac{\text{bd ft}}{\text{cubic ft}} = 5.33 + 0.085 D_s - 13.93 / D_s$$

For the South, two sources report $D_s = 9.3$ in. as the contemporary average sawlog diameter (Beck 2001, SFPA 2001). This yields a net board foot/cubic foot conversion rate of 4.6, or 6.12 m³ per thousand board feet.

For the interior West, average log size (D_s) has been reported as 8.5 in. for stud mills (Beck 2001), 10 in. for eastern Washington (in 1998) (Spelter 2002), and 12.1 in. for inland multi-species random length mills (Beck 2001). For this report, we used the average of these values (10.3 in.) and derived a conversion factor of 4.85 board feet per cubic foot or 5.84 m³ per thousand board feet.

For New England and Missouri, we used 4.8 m³ per thousand board feet of logs of sawlog grade scaled by the international ¼-in. log rule.

Appendix B—Sawmill Capacity and Timber Inventory by State and Province

The following maps and tables show past and current capacity of sawmills and the availability of timber, by county, in the vicinity of these mills in 30 States. Information on timber density by county in Canada is not available; hence, those maps contain only sawmill sites.

The maps, and their associated tables, are arranged in alphabetical order, as follows:

Alabama

Alberta

Arizona, New Mexico, and Utah

Arkansas

British Columbia, Vancouver

British Columbia, South East

British Columbia, North

California, northern

Colorado, South Dakota, and Wyoming

Florida

Georgia

Idaho

Louisiana

Maine

Manitoba—*see* Saskatchewan

Maritime Provinces (New Brunswick and Nova Scotia)

Maryland

Michigan

Minnesota

Mississippi

Missouri

Montana

New Brunswick—*see* Maritime Provinces

New Hampshire—*see* Vermont

New Mexico—*see* Arizona

New York

North Carolina

Nova Scotia— *see* Maritime Provinces

Oklahoma

Ontario

Oregon

Quebec

Prince Edward Island—*see* Maritime Provinces

Saskatchewan and Manitoba

South Carolina

South Dakota—*see* Colorado

Tennessee

Texas, eastern

Utah—*see* Arizona

Vermont and New Hampshire

Virginia

Washington

Wisconsin

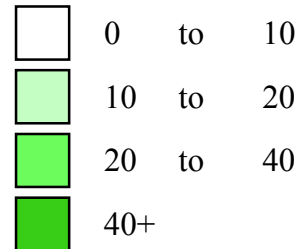
Wyoming—*see* Colorado

Alabama

Softwood Roundwood Inventory and Softwood Sawmill Capacity

Plant Capacity (Thous. Cub. Met.)

Timber (cubic meters/hectare)

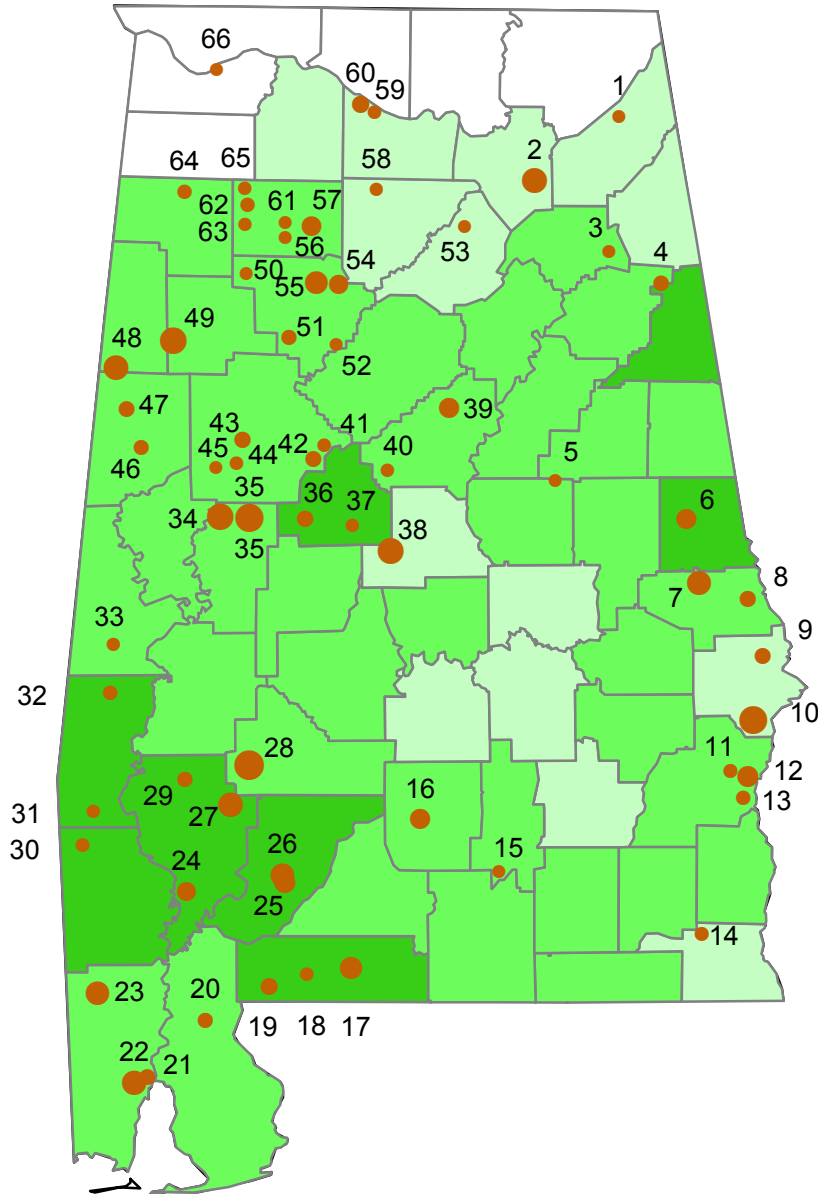
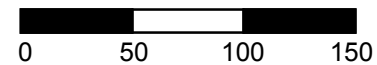


10

355

700

KM



Alabama

Mill I.D.	Name	Location	Capacity / Production (1,000 m³)						
			1997	1998	1999	2000	2001	2002	2003
			Closed Mills						
	Jackson Saw Mill Co	Jackson	28						
	Louisiana-Pacific Corp	Lockhart	47	47					
	Hampton Lumber Sales	Centreville	64	64	35				
	Hampton Lumber Sales	Vance	64	64	64	35			
	U.S. Forest Industries	Abbeville	236	236	236	236			
	Louisiana-Pacific Corp	Evergreen	83	74	83	83	35		
			Timber Mills						
35	Gulf States Paper	Moundville							106
16	International Paper Corp	Chapman	118	118	118	118	118	118	137
56	Robins Lumber Co	Double Springs	12	12	12	12	12	12	12
25	Rocky Creek Lumber Co	Mexia					47	153	153
64	Valley Lumber Co	Hackleburg	35	35	35	35	35	35	35
			Stud Mills						
48	Weyerhaeuser Co	Millport	217	217	224	238	238	238	238
			Dimension Mills						
60	A. V. Littrell Lumber Mill	Tishomingo	83	83	83	83	83	83	83
24	Boise Cascade	Jackson	189	212	217	217	109	109	109
2	Bowater Lumber Co	Albertville	229	229	229	229	247	247	247
39	Bowater Lumber Co	Westover	118	118	137	137	137	137	137
8	Dudley Lumber Co	Salem	61	61	61	61	61	61	61
6	East Alabama Lumber Co	Lafayette	130	130	132	132	132	132	132
49	Georgia-Pacific Corp	Fayette	260	283	288	288	288	288	288
57	Grayson Lumber Corp	Houston	135	123	123	123	123	123	123
22	Gulf Lumber Co	Mobile	231	231	231	231	231	231	231
35	Gulf States Paper	Moundville	142	224	260	271	330	330	330
26	Harrigan Lumber Co	Monroeville	212	212	212	212	212	212	212
23	International Paper Corp	Citronelle	184	201	208	208	208	212	212
38	International Paper Corp	Maplesville	217	217	217	236	260	271	271
34	International Paper Corp	Moundville/tusc	255	255	260	283	283	283	283
7	International Paper Corp	Opelika	170	224	224	224	224	224	224
55	Jasper Lumber Co	W Jasper	184	184	184	184	189	189	189
10	Mead Westvaco	Cottonton	283	283	283	283	319	326	326
12	M. C. Dixon Lumber Co	Eufaula	106	106	106	153	153	153	153
36	Olon Belcher Lumber Co	Brent	61	61	65	65	65	65	65
27	Scotch Lumber Co	Fulton	198	212	236	236	236	236	236
29	Thomasville Lumber Co	Thomasville	47	47	47	47	47	0	47
17	T. R. Miller Mill Co	Brewton	142	142	142	165	177	177	177
42	Vance Lumber Co	Vance	59	59	59	59	59	59	59
28	Weyerhaeuser Co	Pine Hill	236	236	283	354	378	378	378

	Softwood lumber (1,000 m ³)	1997	1998	1999	2000	2001	2002	2003
	Number of sawmills	71	70	69	68	67	65	67
	Estimated capacity	5901	6075	6177	6324	6119	6167	6339
(a)	Reported output (U.S. Census)	4895	5154	5553	5529	5194		
	Implied capacity utilization	0.83	0.85	0.90	0.87	0.85		
	Softwood plywood							
	Estimated capacity	1323	1323	1323	1323	1338		
(b)	Reported output (A.P.A.-Eng.Wd.Assoc.)	1288	1289	1333	1427	1269		
	OSB							
(c)	Estimated capacity	310	310	310	323	554		
	Reported output (A.P.A.-Eng.Wd.Assoc.)	na	na	na	na	na		
(d)	Particleboard/MDF (Composite Panel Assoc)	489	498	498	498	498		
(e)	Softwd. pulpwood receipts(A.Pulpwd.A.)	15233	15291	14621	14254	13767		
(f)	Approximate drain (a+b+1.6c+d+e)	22400	22728	22501	22226	21615		

Mill I.D.	Name	Location	Capacity / Production (1,000 m³)						
			1997	1998	1999	2000	2001	2002	2003
			Board Mills						
32	Jachin Lumber Co	Jachin	34	34	34	34	34	34	34
37	Kornegay Lumber Co	Centreville	14	14	14	14	14	14	14
58	Littrell Bros Lumber Co	Vinemont	15	15	15	15	15	15	15
47	McShan Lumber Co	McShan	57	57	57	57	57	57	57
			Specialty or Unknown						
33	A T & N Lumber Service	York	14	14	14	14	14	14	14
52	A. C. Swindle Contracting Co	Quinton	8	8	8	8	8	8	8
4	Bennett Lumber Co	Piedmont	53	53	53	53	53	53	53
11	Brabham Lumber Co	Eufaula	31	30	30	30	30	30	30
20	Crosby Lumber Co	Bay Minette	47	47	47	47	47	47	47
14	Custom Lumber Mfg Co	Dothan	28	28	28	28	28	28	28
15	Dozier Lumber Co	Dozier	4	4	4	4	4	4	4
18	D. J. Bondurant Lumber Co	Flomaton	21	21	21	21	21	21	21
50	Earley Lumber Co	Carbon Hill	7	7	7	7	7	7	7
1	F.G. Lumber Co	Sylvania	7	7	7	7	7	7	7
62	Garrison's Sawmill	Haleyville	36	36	36	36	36	36	36
13	Garrison Bros Lumber Co	Eufaula	35	35	35	35	35	35	35
63	Great Southern Forest Prod	Haleyville	16	16	16	16	16	16	16
51	Guthrie Lumber Co	Oakman	35	47	47	47	47	47	47
65	J. H. Nash Lumber Co	Haleyville	19	19	19	19	19	19	19
21	Klumb Lumber Co	Mobile	56	56	56	56	56	56	56
41	KyKenKee	Vance	21	21	21	21	21	21	21
31	Lassiter Lumber Co	Silas	15	15	15	15	15	15	15
59	Littrell Lumber Mill	Decatur	24	21	21	21	21	21	21
3	McEntyre Lumber Co	East Gadsden	12	12	12	12	12	12	12
66	McKinney Lumber Co	Muscle Shoals	7	7	7	7	7	7	7
30	Millry Mill Co	Millry	24	24	24	24	24	24	24
53	Mooneyham Lumber Co	Blountsville	4	4	4	4	4	4	4
45	Newton Lumber Co	Tuscaloosa	11	11	11	11	11	11	11
46	Pate Lumber Co	Carrollton	42	42	42	42	42	42	42
44	Pearson Lumber Co	Tuscaloosa	23	23	23	23	23	23	23
9	Phenix Lumber Co	Phenix City	59	59	59	59	59	59	59
54	SE Wood-Jasper Sawmill	Jasper	118	118	118	118	118	118	118
40	Seaman Timber Co	Montevallo	18	18	18	18	18	18	18
61	Sipsey River Timber Co	Double Springs	12	12	12	12	12	12	12
5	Sterling Lumber & Supply Co	Goodwater	8	8	8	8	8	8	8
19	Swift Lumber Co	Atmore	64	64	74	74	74	74	74
43	W.G. Sullivan Lumber Co	Northport	66	66	66	66	66	66	66

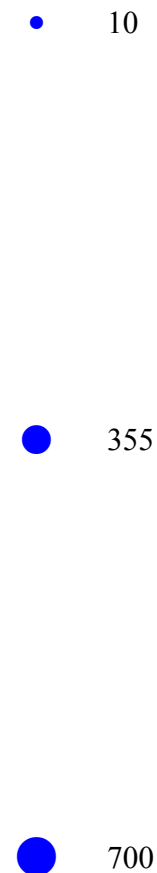
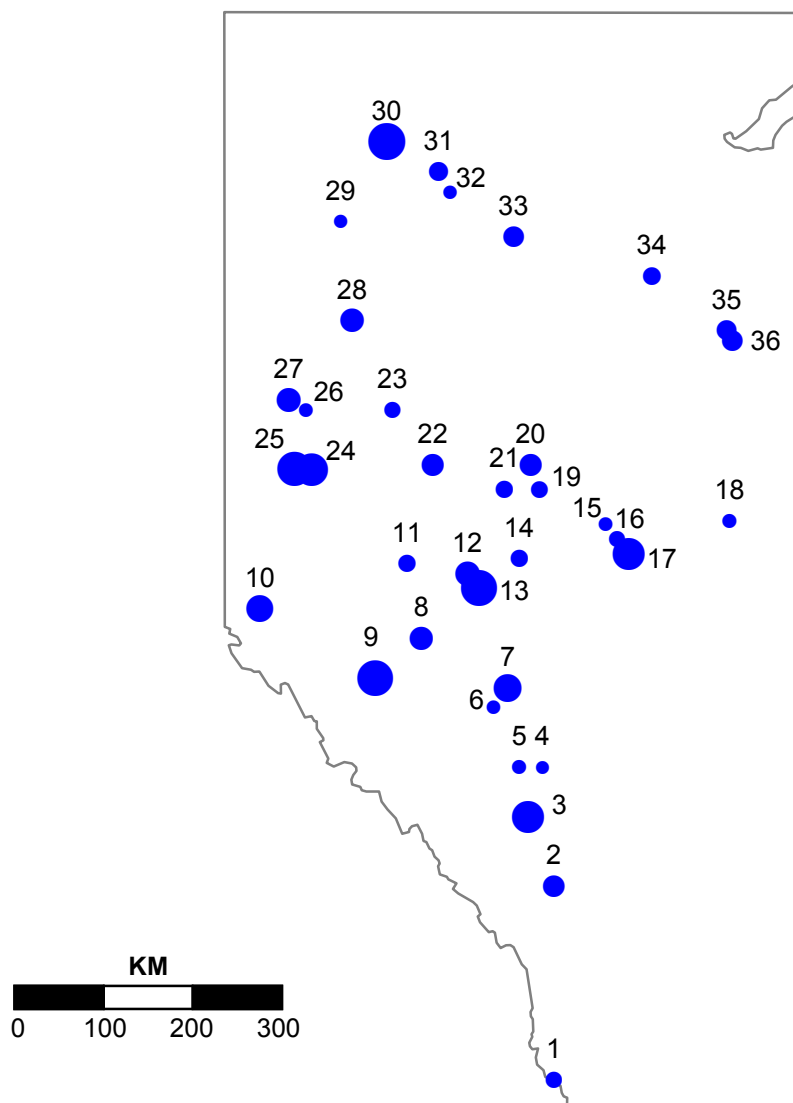
	Softwood timber (1,000 m³)	(2000 data)	1997	1998	1999	2000	2001	2002	2003
(g)	Growing stock	359299							
(f/g)	Drain to growing stock		0.062	0.063	0.063	0.062	0.060		
Typical sawtimber costs									
	Pine (\$/m³)								
	Standing		60	61	58	58	50	54	
	Delivered		74	75	73	73	65	68	

source: *Timber Mart South*

Alberta

Softwood Roundwood Inventory and Softwood Sawmill Capacity

Plant Capacity (Thous. Cub. Met.)

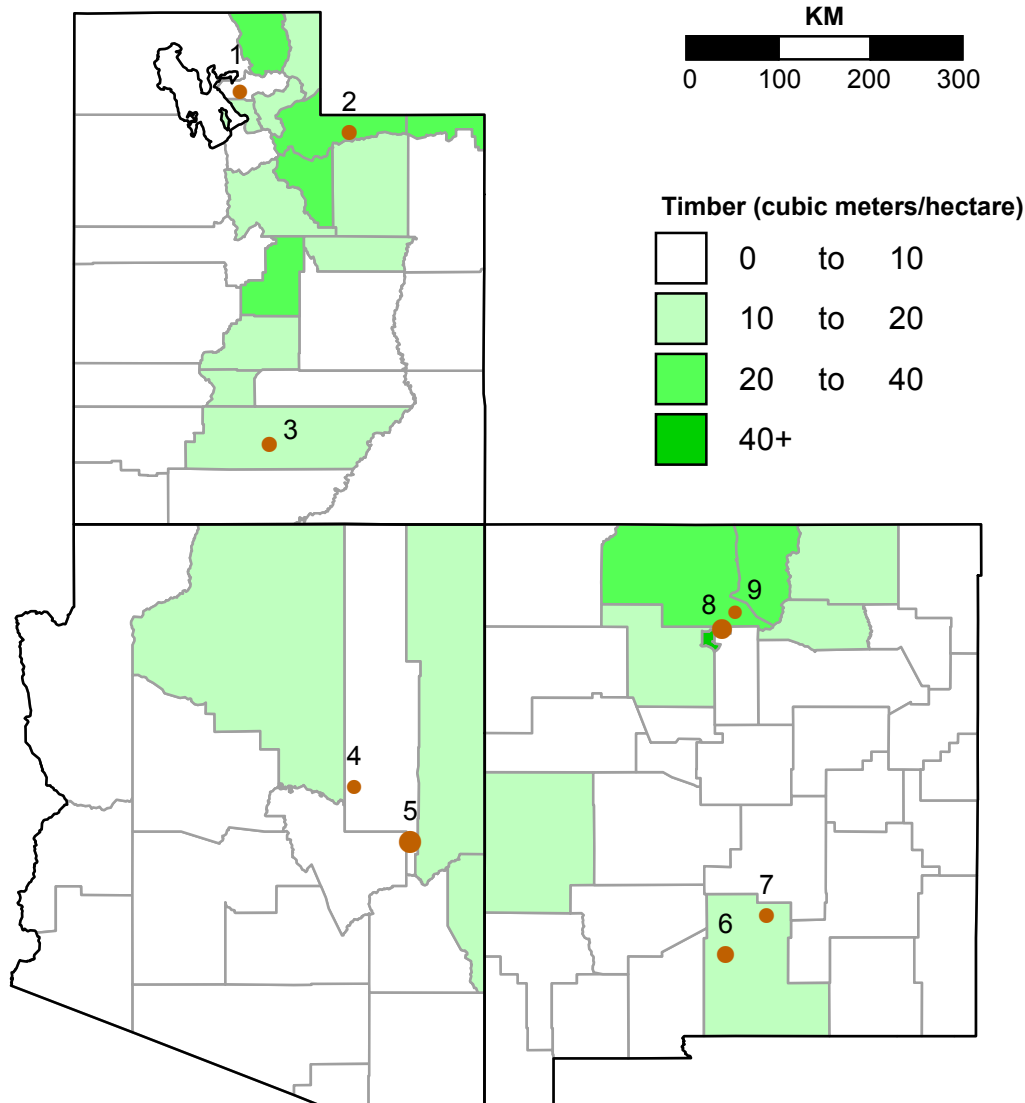


Alberta

Mill									Mill											
		Capacity / Production (1,000 m³)									Capacity / Production (1,000 m³)									
I.D.	Name	Location	1997	1998	1999	2000	2001	2002	2003	I.D.	Name	Location	1997	1998	1999	2000	2001	2002	2003	
Closed Mills									36 Northland F P											
	Johnson Bros F P	Cowley	38	38	38	38	38	38			2 Spray Lake	Fort McMurray	71	106	142	142	142	142	142	
Timber Mills									8 Sundance											
15	Calling Lake Lum	Athabasca	9	12	24	24	24	24			14 Timeu For Prod	Cochrane	125	125	165	165	165	165	165	
6	Tall Pine Timber	Lodgepole	21	21	21	21	21	21			30 Tolko	Edson	201	201	201	201	201	201	201	
Stud Mills									20 Vanderwell											
21	Alberta Plywood Ltd	Slave Lake		83	83	83	83	83			9 Weldwood	Fort Assinboine	47	47	83	83	83	83	83	
27	CanFor	Hines Creek	184	184	184	184	184	224	224		30 Tolko	High Level	543	543	590	590	625	625	625	
35	Carrier Janvier F P	Ft. McMurray	71	130	130	130	130	130	130		20 Vanderwell	Slave lake	118	142	177	177	177	177	177	
34	Carrier Lum Ltd	Trout Lake	47	47	89	89	89	89	89		9 Weldwood	Hinton	519	519	550	578	578	578	578	
Dimension mills									3 Weldwood											
1	Atlas Lumber	Blairmore	66	66	66	66	66	66	66		33 West Fraser Timber Co	Sundre	425	425	448	448	460	510	510	
23	Boucher Bros.	Nampa	61	61	61	61	61	61	61		19 West Fraser Timber Co	Red Earth Creek	142	142	142	142	142	142	142	
22	Buchanan Lumber	High Prairie	177	177	177	177	177	177	177		13 West Fraser Timber Co	Slave Lake	71	71	71	71	71	71	71	
24	CanFor	Grande Prairie	389	389	413	437	472	491	503		7 West Fraser Timber Co	Whitcourt	519	543	566	590	590	623	623	
18	Ed Bobocel Lumber	Lac La Biche	28	28	28	28	28	28	28		7 Weyerhaeuser Can	Drayton Valley	307	307	316	316	316	326	326	
31	LaCrete Sawmills	LaCrete	83	94	94	94	113	113	113		10 Weyerhaeuser Can	Grande Cache	269	269	269	278	297	297	297	
28	Manning	Manning	153	153	201	205	205	205	205		25 Weyerhaeuser Can	Grande Prairie	401	401	489	498	529	529	529	
12	Millar	Boyle	212	236	236	236	236	236	236		26 Zavisha Sawmills	Hines Creek	24	24	24	24	24	24	24	
17	Millar	Whitcourt	413	413	413	413	448	448	448		Specialty or Unknown									
11	Mostowich Lumber	Fox Creek	83	83	83	83	83	83	83		32 Evergreen Lumber	LaCrete	8	14	19	19	19	19	19	
									4 Hansen For Prod											
									5 Rocky Wood Preservers											
									16 Tara For Prod											
									29 Wetkeg For Prod											
Softwood lumber (1,000 m³)			1997	1998	1999	2000	2001	2002	2003	Softwood timber (1,000 m³)			(1991 data)	1997	1998	1999	2000	2001	2002	2003
Number of sawmills			36	37	37	37	37	37	36	(d) Mature growing stock			1300000							
Estimated capacity			5938	6208	6705	6804	6990	7141	7115	(e) Annual private & provincial allowable cut			13907							
Reported output (Stat. Can.)			5718	5624	6184	6300	6293			(f) Total removals			(a+b+c)	14377	10072	12001	13225			
Implied capacity utilization			0.96	0.91	0.92	0.93	0.9			Removals to growing stock			(e/d)	0.011	0.008	0.009	0.01			
Softwood Roundwood Removals										Typical timber costs										
(a)	Logs and Bolts		12372	7682	11982	12901				Standing			na	na	na	na	na			
(b)	Pulpwood		1992	2379	na	na				Delivered			na	na	na	na	na			
(c)	Miscellaneous		13	11	19	324														

Arizona, New Mexico, and Utah

Softwood Roundwood Inventory and Softwood Sawmill Capacity



Plant Capacity (Thous. Cub. Met.)

10

355

700

Arizona/New Mexico/Utah

			Capacity / Production (1,000 m³)						
Mill			1997	1998	1999	2000	2001	2002	2003
I.D.	Name	Location							
Closed Mills									
	Precision Pine	Winslow ,AZ	35						
	Gt. Lakes Timber Co	Ft Duchesne,UT	14						
	Stone Forest Industries	Eager,AZ	108	108					
	Tricon Timber	Cimarron,NM	26	51	56	56	19		
	Reidhead Bros Lumber Co	Nutriosio,AZ	17	17	17	17	17		
8	Idaho Timber Corp	Espanola,NM	117	117	117	117	128	128	64
Stud Mills									
6	Mescalero Forest Prod	Alamogordo,NM	65	72	72	72	28	72	72
	Softwood lumber (1,000 m³)		1997	1998	1999	2000	2001	2002	2003
	Number of sawmills		14	12	11	11	11	9	9
	Estimated capacity		755	739	634	634	558	532	495
(a)	Reported output (U. S. Census)		595	559	637	644	491		
	Implied capacity utilization		0.79	0.76	1.00	1.02	0.88		
	Softwood plywood								
	Estimated capacity								
(b)	Reported output (A.P.A.-Eng.Wd.Assoc.)								
	OSB								
(c)	Estimated capacity								
	Reported output (A.P.A.-Eng.Wd.Assoc.)								
(d)	Particleboard/MDF (Composite Panel Assoc)								
(e)	Softwd. pulpwood & miscellaneous(FPL est)		2380	2349	2359	2300	2300		
(f)	Approximate drain	(a+e)	2975	2909	2996	2944	2791		

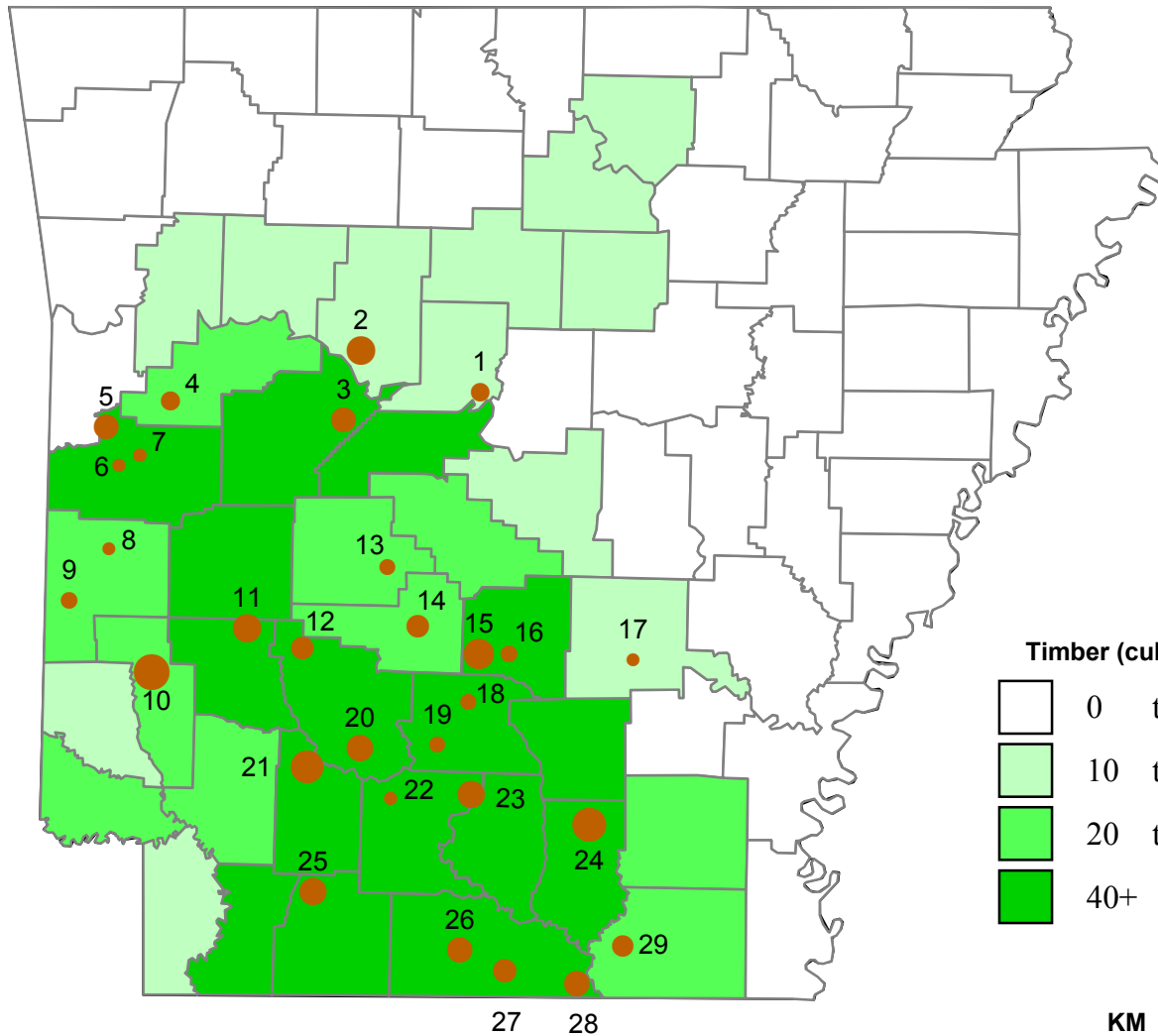
*

			Capacity / Production (1,000 m³)						
Mill			1997	1998	1999	2000	2001	2002	2003
I.D.	Name	Location							
Dimension Mills									
5	Fort Apache Timber Co	Whiteriver,AZ	144	144	144	144	144	112	140
1	Lucas Lumber	Ogden,UT	35	35	35	35	35	35	35
7	Mescalero Forest Prod	Mescalero,NM	41	41	41	41	41	41	41
Board Mills									
4	Precision Pine	Heber,AZ	35	35	35	35	29	28	28
Specialty or Unknown									
2	Leavitt Lumber Co	Kamas,UT	44	44	44	44	44	44	44
3	Skyline For Res	Escalante,UT	47	47	47	47	47	47	47
9	Vallecitos	Vallecitos	19	19	19	19	19	19	19
	Softwood timber (1,000 m³)	(1997 data)	1997	1998	1999	2000	2001	2002	2003
(g)	Growing stock	462805							
(f/g)	Drain to growing stock		0.006	0.006	0.006	0.006	0.006		
Typical sawtimber costs									
Softwoods (\$/m³)									
	Standing		16	9	11	9	na		
	Delivered		na	na	na	na	na		

source: USFS

Arkansas

Softwood Roundwood Inventory and Softwood Sawmill Capacity



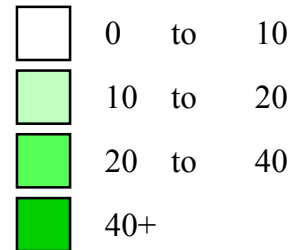
Plant Capacity (Thous. Cub. Met.)

10

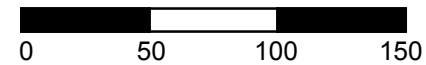
355

700

Timber (cubic meters/hectare)



KM



Arkansas

Mill I.D.	Name	Location	Capacity / Production (1,000 m³)							
			1997	1998	1999	2000	2001	2002	2003	
	International Paper Corp	Whelen Springs	35	35	47	47	35			
	Weyerhaeuser Co	Mountain Pine	236	236	271	271	153			
					Closed Mills					
					Stud Mills					
29	Georgia-Pacific Corp	Crossett	156	165	165	165	165	165	165	
					Dimension Mills					
27	Anthony Forest Prod	Urbana	149	149	149	212	212	212	212	
23	Anthony Timberlands	Bearden	309	307	307	307	307	307	307	
14	Anthony Timberlands	Malvern	158	165	165	165	189	212	236	
2	Bibler Brothers	Russellville	354	354	354	354	354	354	354	
13	Buddy Bean Lumber Co	Hot Springs	52	52	57	59	59	59	59	
12	Curt Bean Lumber Co	Amity	94	142	189	189	189	189	189	
11	Curt Bean Lumber Co	Glenwood	337	342	342	342	342	342	342	
3	Deltic Timber Corp	Ola	170	170	177	189	189	248	248	
25	Deltic Timber Corp	Waldo	236	260	260	260	283	307	307	
26	Georgia-Pacific Corp	El Dorado	177	208	248	260	260	260	260	
18	Idaho Timber Corp	Carthage	59	59	59	59	59	59	59	
20	International Paper Corp	Gurdon	283	283	283	283	283	293	293	
Softwood lumber (1,000 m³)			1997	1998	1999	2000	2001	2002	2003	
Number of sawmills			31	31	31	31	31	29	29	
Estimated capacity			4857	5088	5329	5730	5829	5819	6108	
(a)	Reported output (U.S. Census)		4555	4626	4906	5034	5024			
Implied capacity utilization			0.94	0.91	0.92	0.88	0.86			
Softwood plywood										
Estimated capacity			1623	1655	1655	1655	1593			
(b)	Reported output (A.P.A.-Eng.Wd.Assoc.)		1610	1724	1722	1683	1520			
OSB										
(c)	Estimated capacity						363			
Reported output (A.P.A.-Eng.Wd.Assoc.)										
(d)	Particleboard/MDF (Composite Panel Assoc)		584	584	879	900	900			
(e)	Softwd. pulpwood receipts(A.Pulpwd.A.)		5379	5719	5796	5175	4432			
(f)	Approximate drain (a+b+1.6c+d+e)		12127	12653	13304	12793	12458			

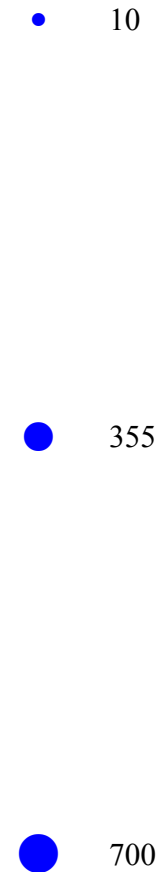
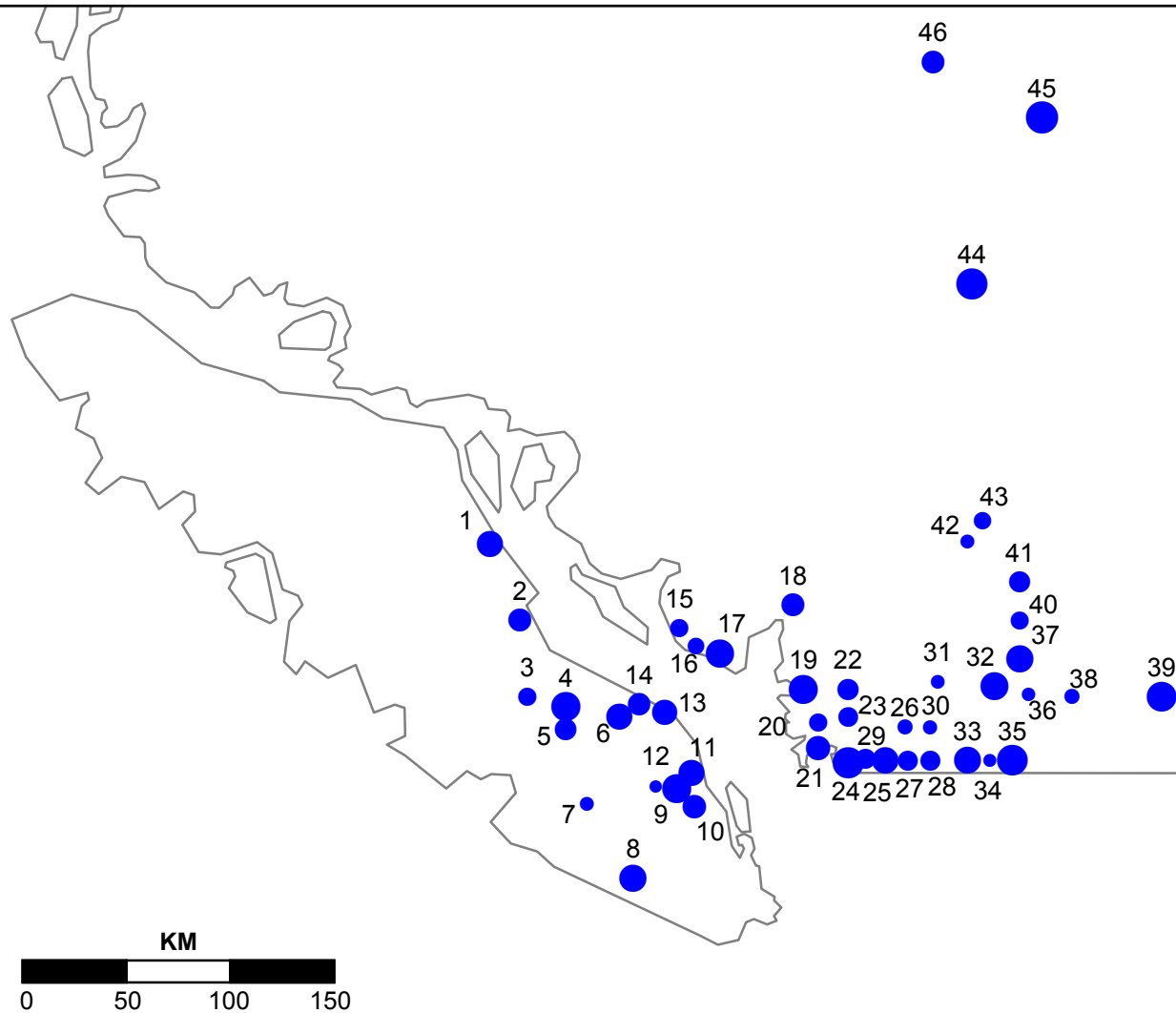
Mill I.D.	Name	Location	Capacity / Production (1,000 m³)							
			1997	1998	1999	2000	2001	2002	2003	
15	International Paper Corp	Leola	212	224	224	224	401	401	401	
1	Pinecrest Lumber Co	Plumerville	106	106	106	106	106	106	106	
21	Potlatch Corp	Prescott	236	236	295	347	354	378	484	
24	Potlatch Corp	Warren	309	333	333	411	401	441	520	
5	Travis Lumber Co	Mansfield	118	189	212	248	248	248	248	
7	US Timber Co South	Booneville	118	118	118	118	118	118	118	
28	West Fraser Timber Co	Huttig	260	264	264	264	264	264	345	
10	Weyerhaeuser Co	Dierks	448	448	460	590	590	590	590	
16	H. G. Toler & Son	Leola	71	71	Board Mills					
					Specialty or Unknown					
6	C & M Lumber Co	Waldron	14	14	14	14	14	14		
17	Hixson Lumber Sales	Pine Bluff	7	7	7	7	7	7		
9	Lewis Lumber & Mfg Co	Cove	71	71	71	71	71	71		
8	Mid-South Wood Prod	Mena	7	7	7	7	7	7		
19	Ray White Lumber Co	Sparkman	35	35	35	52	59	59	59	
4	Scott County Lumber Prod	Waldron	23	23	23	23	23	23	23	
22	Wood Lumber Co	Chidester	15	15	15	15	15	15	15	
Softwood timber (1,000 m³)			(1995 data)	1997	1998	1999	2000	2001	2002	2003
(g)	Growing stock	264644								
(f/g)	Drain to growing stock		0.046	0.048	0.050	0.048	0.047			
Typical sawtimber costs										
Pine (\$/m³)										
Standing			44	49	45	46	40	42		
Delivered			62	69	65	68	60	60		

source: *Timber Mart South*

British Columbia - Vancouver

Softwood Sawmill Capacity

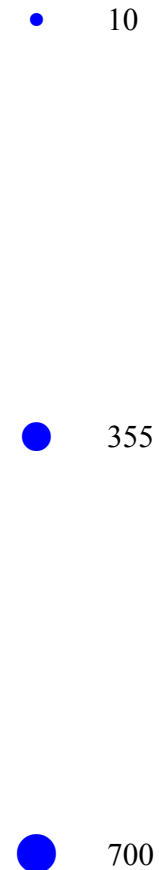
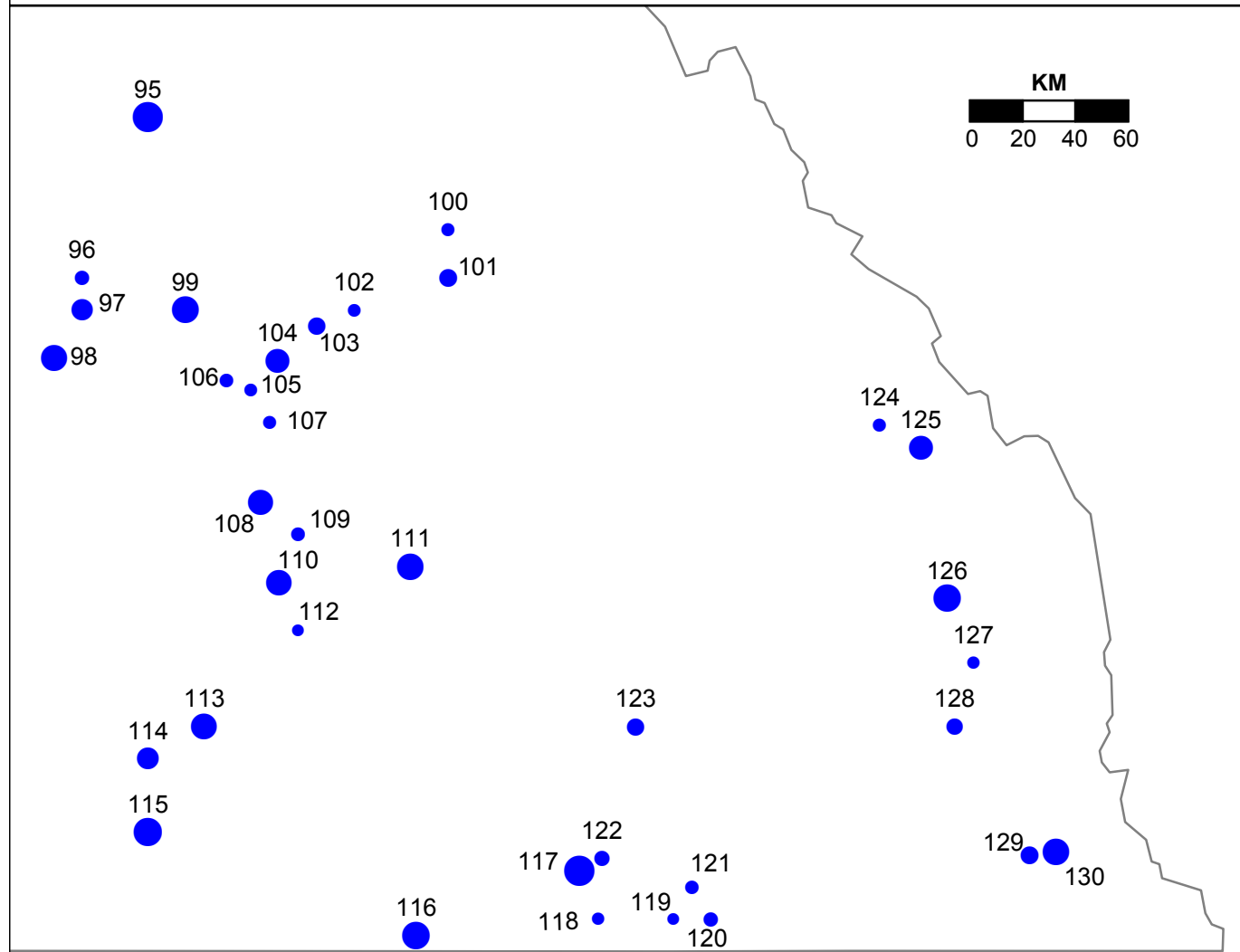
Plant Capacity (Thous. Cub. Met.)



British Columbia - South East

Softwood Sawmill Capacity

Plant Capacity (Thous. Cub. Met.)



British Columbia - North

Softwood Sawmill Capacity

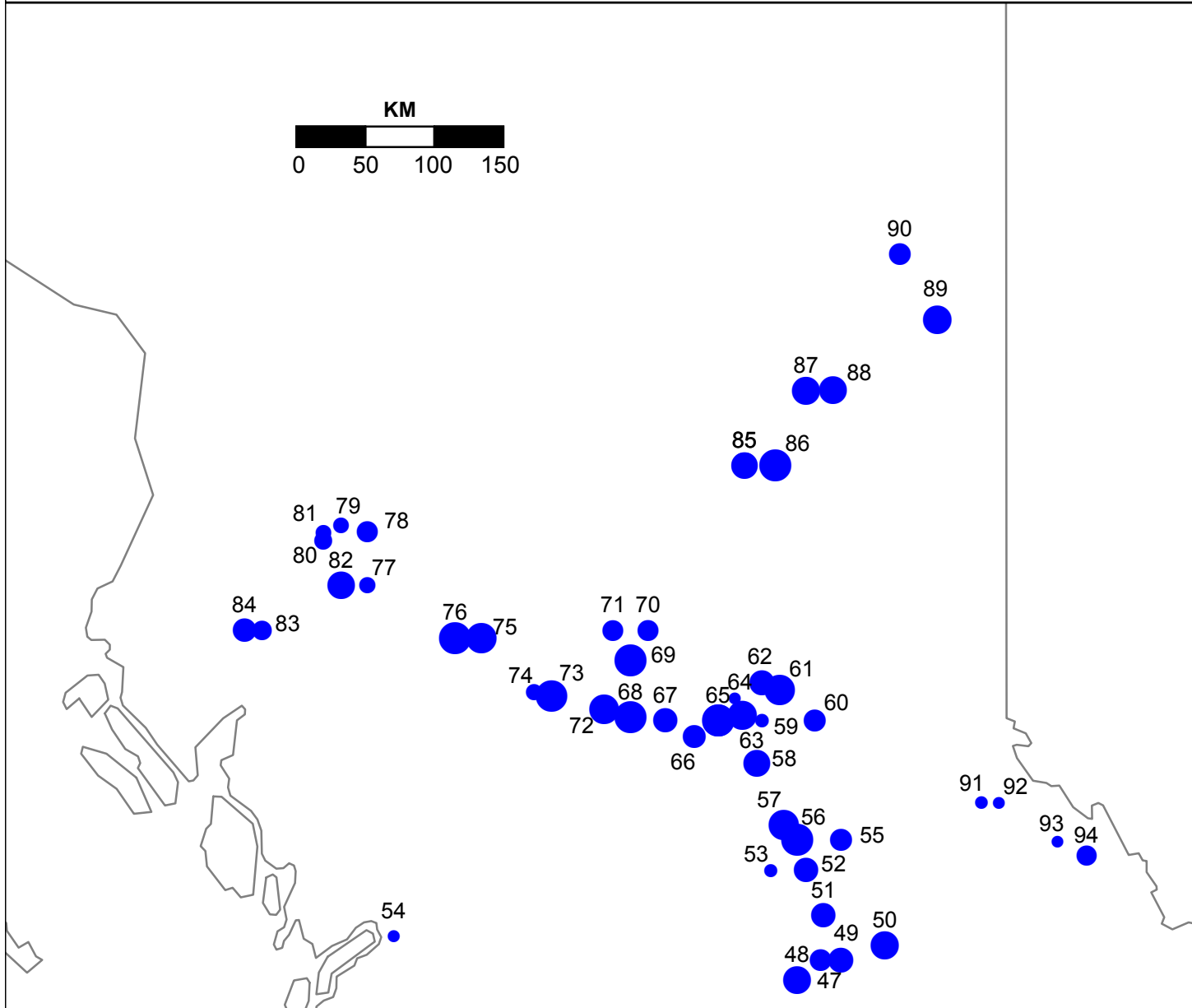
Plant Capacity (Thous. Cub. Met.)

KM
0 50 100 150

• 10

• 355

• 700



British Columbia

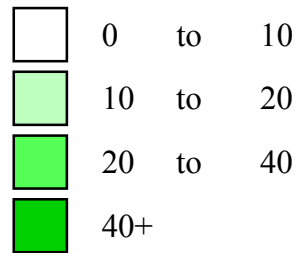
Capacity / Production (1,000 m³)										Capacity / Production (1,000 m³)										Capacity / Production (1,000 m³)										
I.D.	Name	Location	1997	1998	1999	2000	2001	2002	2003	Mill I.D.	Name	Location	1997	1998	1999	2000	2001	2002	2003	Mill I.D.	Name	Location	1997	1998	1999	2000	2001	2002	2003	
Closed Mills																				Cedar Mills										
Weyerhaeuser Can	Powell River		74							64	CanFor	Pr George	385	389	448	476	476	543	649		Abfam Enterp.	Queen Charlott	7	0	0	57	34	34	34	
Ainsworth	100 Mile House		249							64	CanFor	Pr George					651	684	684		C & C Wood Prod	Bella Coola	7	7	7	7	38	38	38	
Weyerhaeuser Can	Lumby		204							61	Carrier Lum Ltd	Pr George	396	396	396	396	396	396	396		91	Castle Creek FP (93)	McBride	34	34	34	34	34	34	34
Ainsworth	Lilloet		85							42	Dalfor Industries	Kamloops					57	85	99		105	Cooper Creek Cedar	Salmon Arm	35	35	35	35	45	45	45
Weyerhaeuser Can	Merritt		227							8	Doman	Cowichan Bay	340	340	340	340	340	340	340		3	Coulson Manufact	Port Alberni	74	74	74	89	113	113	113
CanFor	Vancouver		289							13	Doman	Duke Pt./Nanaii	419	419	210	210	210	210	210		15	Delta Cedar	Delta	96	96	96	96	85	85	85
Milestone For Prod	Armstrong		45							18	Doman	Vancouver	396	396	396	396	396	396	396		7	Errington Cedar	Errington	23	23	23	23	38	38	38
CanFor	Pr George		402	402						9	Doman-Western Lumbl	Ladysmith/Saltz	215	264	340	340	396	396	396		29	Fraser Pulp chips	Surrey	40	40	40	40	40	40	40
Lindal Cedar Homes	Surrey		51	51						56	Dunkley Lumber	Strathnaver	453	453	538	590	614	614	614		95	Gilbert Smith	Barriere	57	57	57	57	57	57	57
CanFor	Pr George		201	201	74					128	Galloway Lumber	Galloway	125	125	125	125	125	125	125		19	Goldwood Industries	Richmond	164	164	164	164	113	113	113
Fort St James For Proc	Fort St James		91	91	91					92	Hauer Bros	Tete Janue/Vali	40	40	40	40	33	33	33		31	Inter For Prod	Hammond/Map	306	306	342	342	366	366	366
CIPA Lumber Co	Nanaimo		189	189	203	203				74	Houston For Prod	Houston	566	566	609	614	625	696	696		17	Inter For Prod	Squamish	221	0	227	212	224	224	224
TimberWest Forest	Youbou/Cowicha		215	236	236	283				98	Inter For Prod	Chase	264	271	295	307	330	354	378		101	Lakeside Timber	Tappen	28	28	28	28	28	28	28
Inter For Prod	Coquitlam		351	351	340	340	142			23	Inter For Prod	New Westminst	430	425	453	453	470	470	470		102	Louisiana-Pacific Corp	Malakwa	136	136	136	136	109	118	118
West Fraser Timber Cc	Pr Rupert		204	204	215	215	170			79	Kitwanga Lumber	Kitwanga	113	113	118	132	170	170	170		122	Meadow Creek Cedar	Kaslo	113	113	113	113	113	113	113
Bayside	Port Mellon		79	79	79	79	79			49	Lignum Ltd	Williams Lake	448	479	519	519	531	531	531		28	Mill&Timber Prod	Port Moody	198	0	0	0	153	153	153
Doman-Western Lumbl	Tahsis		266	295	295	295	295	236		116	Pope & Talbot	Castlegar	504	489	489	489	500	500	500		106	Paragon Ventures	Grindrod	34	34	34	34	34	34	34
Doman	Vancouver/silver		227	227	238	238	238	238		115	Pope & Talbot	Grand Forks	264	264	179	179	396	396	396		104	Poplar Creek	Salmon Arm	28	28	28	28	28	28	28
Doman	Chemainus/Nanc		113	113	94	109	113	113		110	Pope & Talbot	Midway	323	354	354	366	366	366	366		20	Terminal For Prod	Richmond	210	210	227	227	260	260	260
J.S. Jones	Boston Bar		396	283	510	510	510	510		111	Riverside	Lumby/Lavngtvc	159	159	159	113	28	12	12		21	Terminal For Prod	Vancouver	181	181	181	181	181	181	181
Weyerhaeuser Can	Vancouver(W Pi		283	295	295	295	295	59		47	Riverside FP	Williams Lake/V	363	460	472	496	496	507	507		37	Twin River Cedar	Ruskin	34	34	57	57	57	57	57
Slocan	Slocan		272	260	260	260	260	260		77	Skeena Cellulose	Carnaby/S Haz	0	158	158	158	158	0	263	25	West Bay Forest Prod	Surrey	57	57	57	57	57	57	57	
CanFor	Taylor		164	164	165	170	182	189	142	82	Skeena Cellulose	Terrace	0	354	354	373	373	0	218	12	Weyerhaeuser Can	Nanaimo/Isi Ph	261	189	168	168	168	342	342	
CanFor	Upper Fraser		538	538	599	599	614	732	503	87	Slocan	Engen/Vanderh	680	680	732	732	732	850	920		24	Weyerhaeuser Can	New Westminst	159	227	319	319	319	319	319
Slocan - B	Quesnel		108	108	108	108	118	118	59	84	Slocan	McKenzie	356	420	420	420	425	425	425		5	Weyerhaeuser Can	Pt Alberni(SOM	182	182	182	182	182	182	182
Weyerhaeuser Can	Vavenby		227	236	352	352	373	373	93	84	Slocan	McKenzie	437	295	295	437	448	448	448											
Timber Mills																				Board Mills										
27 Mill&Timber Prod	Surrey		147	153	153	153	153	153	153	124	Slocan	Radium Hot Spi	283	271	283	283	283	283	283		113	Gorman Bros	Westbank	181	181	181	181	227	227	227
118 North Star Planing	Atholmer		24	24	24	11	11	11	11	94	Slocan	Vavenby/Clearv	357	389	401	401	441	445	495											
26 Stag	Surrey		153	153	153	153	153	153	153	71	Slocan - A	Quesnel	351	351	351	351	373	373	519		39	Andrew	Merritt	35	33	38	50	108	108	108
Stud Mills																				Specialty or Unknown										
63 Brink For Prod	Pr George		35	35	35	35	35	35	35	125	Tembec	Canal Flats	330	330	307	307	307	307	307		57	Atco	Fruitvale	17	26	26	23	23	23	23
65 CanFor	Pr George/Clear		283	283	307	312	312	342	413	57	The Pas Lumber Co	Pr George/Bear	464	464	464	472	472	472	472		117	C & C Wood Prod	Quesnel	57	57	57	57	57	57	57
45 Carrier Lumber	Anahim Lake		222	222	222	222	222	222	222	1	TimberWest Forest	Campbell R/Elk	249	236	271	271	283	283	307		14	Coast Mtn Hardwds	Delta	96	96	113	113	113	113	113
107 Riverside	Armstrong		283	295	295	260	321	321	321	109	Tolko	Lavington	177	177	189	283	319	330	330		100	Downey	Revelstoke	125	125	125	125	125	125	125
112 Riverside	Kelowna		295	295	340	340	340	340	340	96	Tolko	Louis Creek/Ba	187	198	198	198	208	198	208		103	Federated Coop	Canoe	204	189	203	203	283	283	283
46 Riverside FP	Williams Lake/Sc		362	170	170	170	260	283	283	36	Tolko	Merritt	227	255	255	342	342	342	342		30	Halo Forest Products	Pitt Meadows	35	35	35	35	35	35	35
69 Sinclair/Apollo	Ft. St. James		249	249	249	271	260	260	260	50	Tolko	Quesnel	348	347	354	378	378	378	378		126	Hilmoor For Pr	Rock Creek	23	23	23	23	23	23	23
66 Sinclair/L & M Lumber	Vanderhoof		346	346	358	358	368	368	368	44	Weldwood	100 Mile House	408	408	425	425	510	510	510		22	Howe Sound	Vancouver	113	113	113	113	142	142	142
59 Sinclair/Lakeland Mills	Pr George		283	283	283	295	295	295	295	72	Weldwood	Burns Lake	590	590	589	590	673	673	673		2	Inter For Prod	Courtenay	198	224	224	224	224	224	224
89 Slocan	Fort Nelson		215	189	217	217	186	283	283	54	Weldwood	Quesnel	215	283	278	295	295	314	319		16	Inter For Prod	Delta	283	366	378	378	378	378	378
90 West Fraser Timber Cc	McBride		51	51	51	51	51	51	51	87	West Fraser Timber Cc	Chetwynd	441	448	481	486	507	548	555		32	Inter For Prod	Surrey/McKenz	147	304	304	304	328	328	328
Dimension Mills																														
85 Abitibi Consolidated	MacKenzie		680	701	776	787	838	838	838	43	West Fraser Timber Cc	Clinton/Chasm	255	264	413	413	160	354	496		119	J H Huscroft	Erickson	68	57	57	57	57	57	57
40 Aspen Planers	Merritt		177	177	177	177	177	177	177	71	West Fraser Timber Cc	LeJac/Fraser Li	524	512	543	566	566	637	637		99	Joe Kozek Sawmills	Revelstoke	34	34	34	34	34	34	34
127 Atco	Park Siding		181	181	181	182	94	94	94	76	West Fraser Timber Cc	Quesnel	651	647	691	720	732	795	795		121	Kalesnikoff	Thrus	71	71	71	71	71	71	71
73 Babine Timber	Burns Lake		136	136	170	99	125	156	156	55	West Fraser Timber Cc	Smithers	74	90	90	123	123	123	123		78	Kispiox For Prod	New Hazelton	113	113	113	113	113	113	113
80 C GED For Prod	Kitwanga		73	94	94	113	113	113	113	76	West Fraser Timber Cc	Smithers	389	392	453	453	505	529	529		41	Lytton Lumber	Lytton	38	38	38	38	38	38	38
60 CanFor	Bear Lake		329	329	378	378	432	590	623	83	West Fraser Timber Cc	Terrace	269	142	189	189	189	201	201		108	Milestone Wood Prod	Armstrong	45	45	45	45	45	45	45
86 CanFor	Chetwynd		385	385	401	437	448	524	535	189	West Fraser Timber Cc	Williams Lake	333	349	361	389	389	465	472											

Northern California

Softwood Roundwood Inventory and Softwood Sawmill Capacity

Plant Capacity (Thous. Cub. Met.)

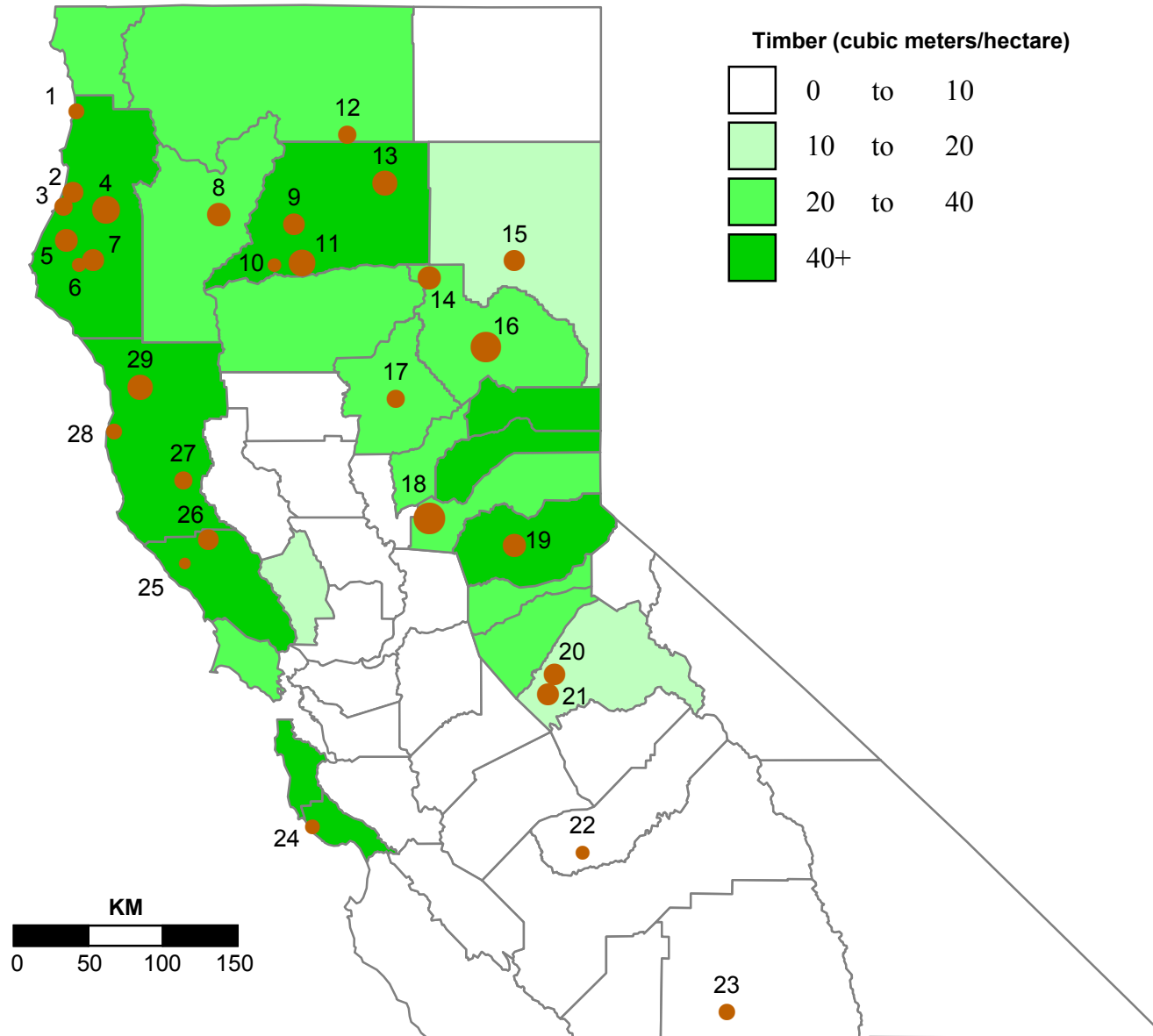
Timber (cubic meters/hectare)



10

355

700



California

Mill			Capacity / Production (1,000 m³)						
I.D.	Name	Location	1997	1998	1999	2000	2001	2002	2003
			Closed Mills						
	Louisiana-Pacific Corp	Samoa	142						
	P&M Cedar Prod	Pioneer	118	24					
	Hi-Ridge Lumber Co	Yreka	179	165	17				
	Sequoia Forest Industries	Dinuba	94	94	94	47			
	Eel River Sawmills	Redcrest	153	153	153	153			
	Sierra Pacific Industries	Loyalton	201	189	236	236			
	Pacific Lumber Co-Mill A	Scotia	418	420	422	425	94		
	Beaver Lumber Co	Santa Clara	89	89	89	89	45		
	Big Valley Lumber Co	Bieber	111	111	111	111	57		
	Eel River Sawmills	Fortuna	378	283	236	189	189		
	P&M Cedar Prod	Anderson	118	118	118	118	118		
	Butler Forest Prod	Redding	21	21	21	21	21		
	Big Valley Lumber Co	Burney	94	94	94	94	94	94	
	Blue Lake Forest Prod	Arcata	177	177	177	142	142	142	
	Wisconsin-California FP	Redding	142	142	142	142	142	47	
	Georgia-Pacific Corp	Fort Bragg	401	354	340	236	215	214	
			Stud Mills						
28	Mendocino For Prod	Fort Bragg	165	165	165	165	94	94	94
10	Sound Stud	Anderson	52	52	52	52	52	52	52
			Redwood Mills						
25	Berry's Sawmill	Cazadero	17	17	17	17	17	17	17
24	Big Creek Lumber Co	Davenport	71	71	71	71	71	71	71
27	Mendocino For Prod	Ukiah	177	177	177	177	153	142	142
26	Redwood Empire	Cloverdale	212	212	212	212	212	212	212
4	Simpson Timber Co	Korbel	437	437	496	496	507	557	441
	Softwood lumber (1,000 m³)		1997	1998	1999	2000	2001	2002	2003
	Number of sawmills		44	43	42	42	39	33	29
	Estimated capacity		8426	8249	8304	8318	7224	6753	6556
(a)	Reported output (WWPA)		8100	7524	7590	7488	6445		
	Implied capacity utilization		0.96	0.91	0.91	0.90	0.89		
	Softwood plywood								
(b)	Estimated capacity		175	175	175	176	177		
	Reported output (A.P.A.-Eng.Wd.Assoc.)		na	na	na	na	na		
(c)	Particleboard/MDF (Composite Panel Assoc		797	823	850	850	850		
(d)	Chip exports ((all chips) U.S. Census)		742	510	572	474	474		
(e)	Softwd. pulpwood receipts(A.Pulpwd.A.)		2165	2165	2165	1900	1500		
(f)	Approximate drain (2a+b+d+e)		20078	18721	18942	18377	15891		

Mill I.D.	Name	Location	Capacity / Production (1,000 m³)						
			1997	1998	1999	2000	2001	2002	2003
1	Simpson Timber Co	Orick	94	94	94	94	94	94	94
Dimension Mills									
29	Harwood Prod	Branscomb	236	307	307	354	354	354	354
22	Norby Lumber Co	Madera	57	57	57	57	57	57	57
5	Pacific Lumber Co	Fortuna	165	165	165	165	201	257	271
3	Schmidbauer Lumber Co	Eureka	142	142	146	146	146	146	146
23	Sierra Forest Products	Terra Bella	132	132	132	132	71	106	106
11	Sierra Pacific Industries	Anderson	330	330	330	330	330	387	399
2	Sierra Pacific Industries	Arcata	205	205	205	205	205	185	217
13	Sierra Pacific Industries	Burney	328	307	307	307	307	333	342
19	Sierra Pacific Industries	Camino	283	283	283	283	283	269	283
21	Sierra Pacific Industries	Chinese Camp	142	212	241	248	248	244	248
18	Sierra Pacific Industries	Lincoln	399	448	507	566	566	583	588
16	Sierra Pacific Industries	Quincy	463	472	531	543	543	543	543
9	Sierra Pacific Industries	Shasta Lake/F	236	236	236	236	236	238	238
8	Trinity River Lumber Co	Weaverville	236	236	236	236	236	295	295
Cedar Mills									
12	P&M Cedar Prod	McCloud	149	149	149	149	149	149	149
17	Sierra Pacific Industries	Oroville				118	118	106	142
Board Mills									
14	Collins Pine Co	Chester	177	177	177	182	94	35	283
7	Pacific Lumber Co	Carlotta	142	189	212	224	224	250	250
20	Sierra Pacific Industries	Standard	238	236	238	238	224	196	236
15	Sierra Pacific Industries	Susanville	260	260	260	260	260	227	227
Specialty or Unknown									
6	Pacific Lumber Co-Mill B	Scotia	47	47	50	52	54	57	59
	Softwood timber (1,000 m³)	(1995 data)	1997	1998	1999	2000	2001	2002	2003
(g)	Growing stock (ex federal)	555810							
(f/g)	Drain to growing stock		0.036	0.034	0.034	0.033	0.029		
Typical sawtimber costs									
Softwood (\$/m³)									
Standing (BLM)			51	52	60	29	na	na	
Delivered			na	na	na	na	na	na	

source: Bureau of Land Management

Colorado, South Dakota, and Wyoming

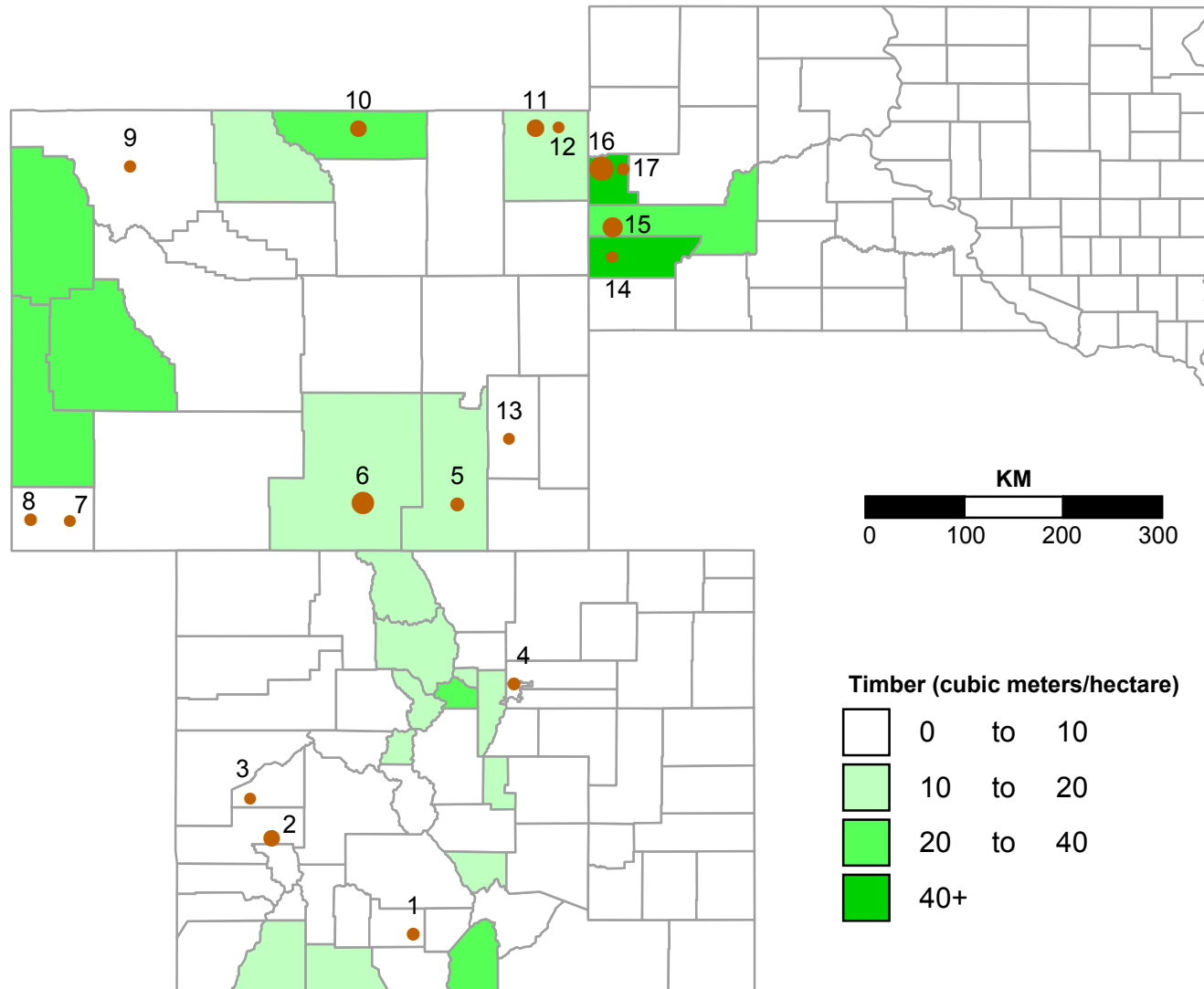
Softwood Roundwood Inventory and Sawmill Capacity

Plant Capacity (Thous. Cub. Met.)

10

355

700



Colorado/S. Dakota/Wyoming

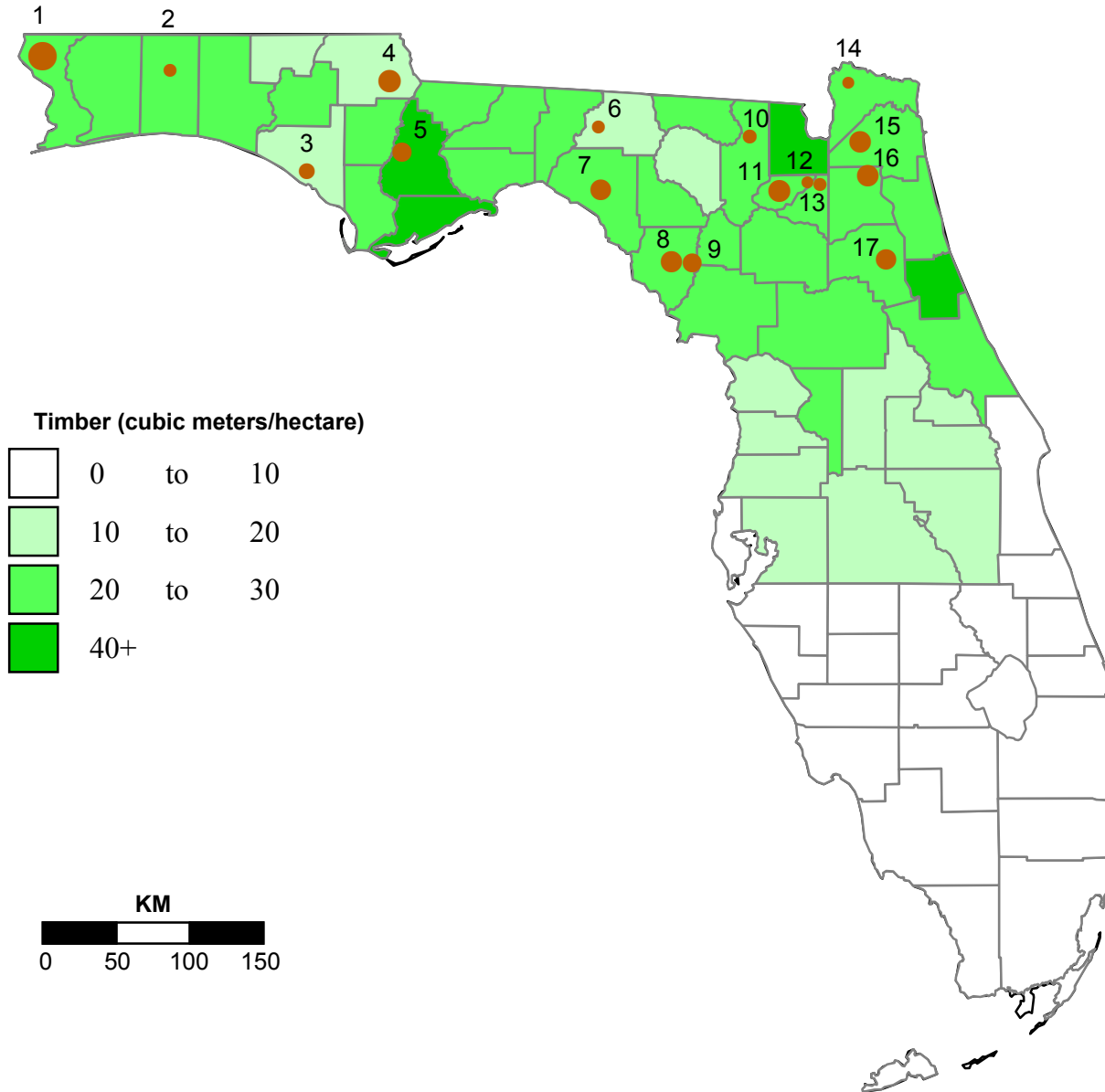
Mill I.D.	Name	Location	Capacity / Production (1,000 m³)						
			1997	1998	1999	2000	2001	2002	2003
			Closed Mills						
	Pope & Talbot	Newcastle,WY	76	76	76	42			
	U.S. Forest Industries	South Fork,CO	153	153	153	153	83		
			Stud Mills						
6	Louisiana-Pacific Corp	Saratoga,WY	118	118	118	118	224	236	236
10	Wyoming Sawmills	Sheridan,WY	74	78	85	94	94	94	94
			Dimension Mills						
11	Neimann Sawmill	Hulett,WY	109	109	109	118	118	118	118
15	Neimann Sawmill /Rushmor	Hill City,SD	83	87	106	118	125	177	177
			Board Mills						
5	Big Horn Lumber Co	Laramie, WY	33	35	40	45	45	47	47
2	Intermountain For Prod	Montrose ,CO	47	47	47	94	94	94	94
	Softwood lumber (1,000 m³)		1997	1998	1999	2000	2001	2002	2003
	Number of sawmills		19	19	19	19	18	17	17
	Estimated capacity		1119	1142	1173	1218	1230	1213	1213
(a)	Reported output (U.S. Census)		1133	1168	1180	1041	1109		
	Implied capacity utilization		1.01	1.02	1.01	0.85	0.90		
	Softwood plywood								
	Estimated capacity								
(b)	Reported output (A.P.A.-Eng.Wd.Assoc.)								
	OSB								
(c)	Estimated capacity		128	128	128	128	128		
	Reported output (A.P.A.-Eng.Wd.Assoc.)		na	na	na	na	na		
(d)	Particleboard/MDF (Composite Panel Assoc)								
(e)	Softwd. pulpwood & miscellaneous(FPL est)		1700	1700	1700	1700	1700		
(f)	Approximate drain (a+.4c+e)		2884	2920	2931	2792	2861		

Mill I.D.	Name	Location	Capacity / Production (1,000 m³)						
			1997	1998	1999	2000	2001	2002	2003
1	Pleasant Logging & Milling	Monte Vista,CC	30	30	30	30	30	30	30
16	Pope & Talbot	Spearfish,SD	260	271	271	271	283	283	283
4	Reed Mill & Lumber Co	Denver,CO	26	26	26	26	26	26	26
13	South Fork Lumber	Wheatland,WY	6	6	6	6	6	6	6
			Specialty or Unknown						
7	Ayres & Baker	Mt. View, WY	14	14	14	9	9	9	9
9	Cody Lumber Co	Cody,WY	19	19	19	19	19	19	19
3	Delta Timber Co	Lazear,CO	5	5	5	5	5	5	5
12	Hulett Post & Pole	Hulett,WY	9	9	9	9	9	9	9
17	McLaughlin Sawmill Co	Spearfish,SD	24	24	24	24	24	24	24
14	R.E. Linde Sawmills	Custer,SD	12	12	12	12	12	12	12
8	South & Jones	Evanston,WY	24	24	24	24	24	24	24
	Softwood timber (1,000 m³)	(1997 data)	1997	1998	1999	2000	2001	2002	2003
(g)	Growing stock	710255							
(f/g)	Drain to growing stock		0.004	0.004	0.004	0.004	0.004		
	Typical sawtimber costs								
	Softwoods (\$/m³)								
	Standing		29	24	20	17	na		
	Delivered		52	48	44	41	na		

source: USFS

Florida

Softwood Roundwood Inventory and Softwood Sawmill Capacity



Florida

			Capacity / Production (1,000 m³)						
Mill I.D.	Name	Location	1997	1998	1999	2000	2001	2002	2003
Closed Mills									
	Ocala Lumber Sales Co	Ocala	17	17	17				
	U.S. Forest Industries	Graceville	142	142	142	177	142		
Timber Mills									
3	Grayson Lumber Corp	Westbay	83	83	83	83	83	83	83
13	Tatum Bros Lumber Co	Lawtey	33	33	33	33	33	33	33
Stud Mills									
4	Grayson Lumber Corp	Marianna	71	71	83	83	189	236	236
Dimension Mills									
10	Daniels Lumber	Lake City	47	47	47	47	47	47	47
2	Fleming Lumber Co	Crestview	27	27	27	27	27	27	27
8	Georgia-Pacific Corp	Cross City	201	201	201	201	201	201	201
	Softwood lumber (1,000 m³)		1997	1998	1999	2000	2001	2002	2003
	Number of sawmills		18	18	18	17	18	17	17
	Estimated capacity		1774	1781	1891	1921	2249	2344	2403
(a)	Reported output (U.S. Census)		1864	1803	1841	1758	2006		
	Implied capacity utilization		1.05	1.01	0.97	0.92	0.89		
	Softwood plywood								
	Estimated capacity		503	518	518	518	518		
(b)	Reported output (A.P.A.-Eng.Wd.Assoc.)		508	508	520	490	513		
	OSB								
(c)	Estimated capacity								
	Reported output (A.P.A.-Eng.Wd.Assoc.)								
(d)	Particleboard/MDF (Composite Panel Assc		30	30	30	30	30		
(e)	Softwd. pulpwood receipts(A.Pulpwd.A.)		10834	10227	8492	8581	8297		
(f)	Approximate drain (a+b+c+d+e)		13236	12568	10884	10860	10847		

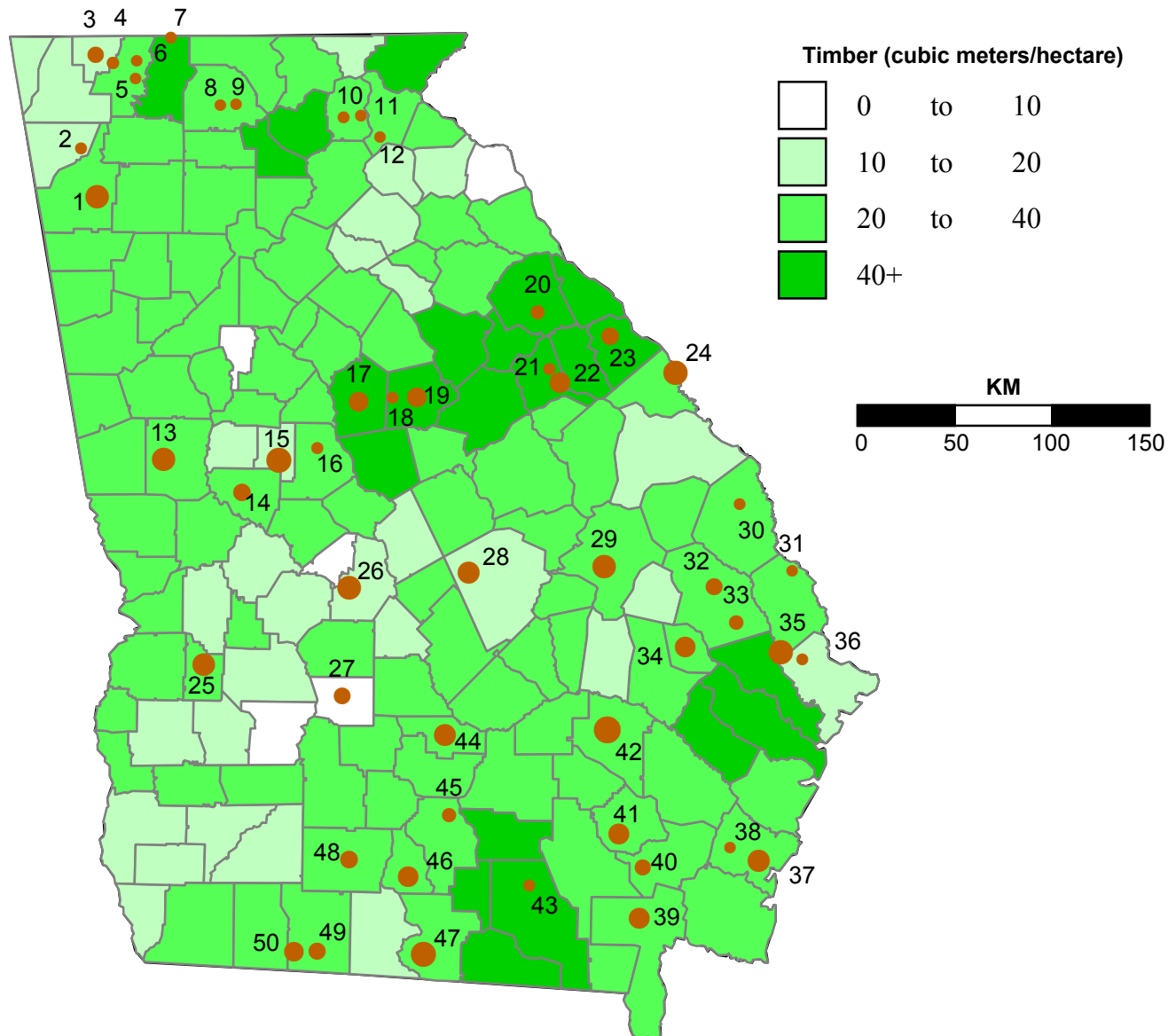
Mill			Capacity / Production (1,000 m³)						
I.D.	Name	Location	1997	1998	1999	2000	2001	2002	2003
17	Georgia-Pacific Corp	Palatka	123	123	179	179	179	179	179
11	Gilman Building Prod Co	Lake Butler	224	224	224	224	224	224	224
16	Gilman Building Prod Co	Maxville	212	212	212	212	212	212	212
7	Gilman Building Prod Co	Perry	130	130	130	130	186	186	186
1	International Paper Corp	McDavid					177	366	425
15	International Paper Corp	Whitehouse	203	210	210	210	210	210	210
12	Pride of Florida	Raiford	8	8	8	8	8	8	8
9	Suwannee Lumber Mfg Co	Cross City	65	65	106	118	142	142	142
Board Mills									
5	North Florida Lumber Co	Bristol	153	153	153	153	153	153	153
6	Sherrod Lumber Co	Greenville	30	30	30	30	30	30	30
Specialty or Unknown									
14	Franklin Lumber Co	Hilliard	6	6	6	6	6	6	6
	Softwood timber (1,000 m³)	(1995 data)	1997	1998	1999	2000	2001	2002	2003
(g)	Growing stock	266868							
(f/g)	Drain to growing stock		0.050	0.047	0.041	0.041	0.041		
Typical sawtimber costs									
Pine (\$/m³)									
	Standing		49	51	49	47	44	43	
	Delivered		65	64	60	63	57	59	

source: *Timber Mart South*

Georgia

Softwood Roundwood Inventory and Softwood Sawmill Capacity

Plant Capacity (Thous. Cub. Met.)



10

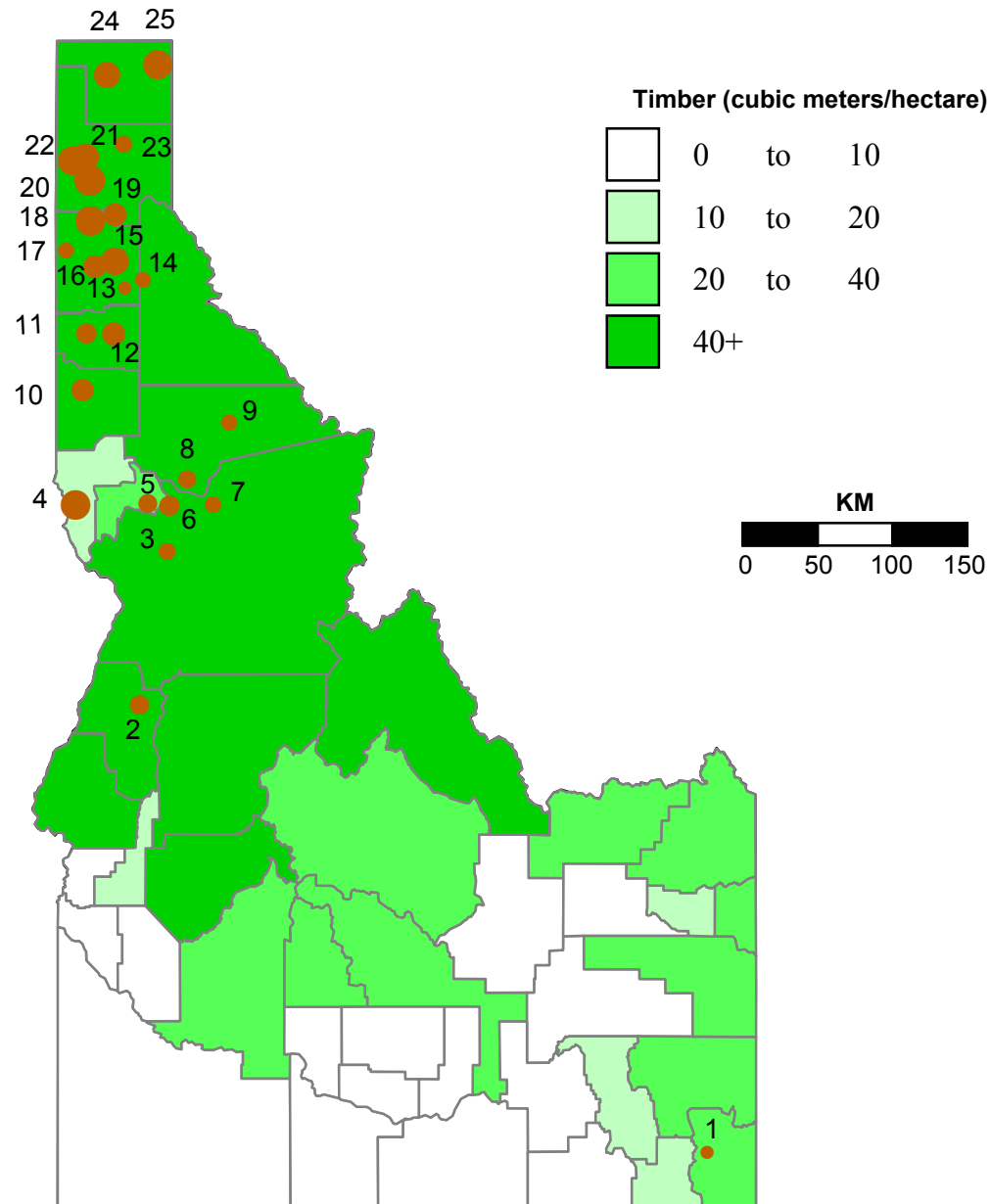
355

700

Georgia																			
Mill	Capacity / Production (1,000 m³)								Mill	Capacity / Production (1,000 m³)									
I.D.	Name	Location	1997	1998	1999	2000	2001	2002	2003	I.D.	Name	Location	1997	1998	1999	2000	2001	2002	2003
Closed Mills									47	Langdale Forest Prod Co	Valdosta	260	260	283	307	330	330	330	
	Louisiana-Pacific Corp	Statesboro	59	59						13	Mead Westvaco	Greenville	264	281	281	260	260	260	260
	International Paper Corp	Waycross	33	33	33	33				50	Metcalf Lbr Co	Metcalfe	177	177	177	177	177	177	177
	International Paper Corp	Washington	413	437	437	437				42	Rayonier	Baxley	378	378	389	389	389	389	389
	Frank G. Lake Lbr Co	Monticello	17	17	17	17	7			19	Rayonier	Eatonton	142	148	0	177	177	177	177
	Burgin Lumber Co	Cuthbert	76	83	83	83	85	78		29	Rayonier	Swainsboro	236	255	255	283	283	283	283
	Georgia Mountain Timber	Cornelia	6	6	6	6	6	6		1	Temple-Inland Forest Prod C	Rome	260	260	260	283	283	283	283
	Georgia Lumber Co	Covington	89	89	89	89	89	47		26	Tolleson Lumber Co	Perry	142	236	236	260	295	295	295
	J. P. Haynes Lumber Co	Canton	14	14	14	14	14	14		25	Tolleson Lumber Co	Preston	194	212	212	217	260	260	260
Timber Mills									15	Weyerhaeuser Co	Barnesville	253	271	319	319	330	330	330	
20	Burt Lumber Co	Washington	54	54	57	45	38	52	54	Board Mills									
2	Hogan & Storey Wood Prod	Armuchee	18	18	18	18	18	18	18	21	The Timbermen Inc	Camak	24	24	24	24	24	24	24
5	W. D. Cline & Sons Lumber C	Dalton	12	12	12	12	12	12	12	Specialty or Unknown									
Stud Mills									6	Baldridge Bros	Dalton	5	5	5	5	5	5	5	
17	Georgia-Pacific Corp	Monticello	175	177	177	177	177	177	177	38	Edgy Planing Mill	Brunswick	9	9	9	9	9	9	9
Dimension Mills									9	Ellijay Lbr & Wood Preservin	Ellijay	8	8	8	8	8	8	8	
3	Babb Lumber Co	Ringgold	106	104	104	104	104	104	104	30	Evans Lbr Co	Sylvania	12	12	15	15	15	15	15
48	Beadles Lumber Co	Moultrie	111	123	130	130	130	130	130	18	Hallman Wood Prod	Eatonton	16	16	16	16	16	16	16
49	Beadles Lumber Co	Thomasville	94	99	106	113	118	118	118	11	Hogan Lumber Co	Cleveland	16	16	16	16	16	16	16
32	Claude Howard Lumber Co	Statesboro	90	90	90	113	113	113	113	45	Hubert Moore Lumber Co	Alapaha	42	42	42	0	47	59	59
46	Del-Cook Lumber Co	Adel	201	201	201	201	201	201	201	12	Irvin Lumber Co	Cornelia	7	7	7	7	7	7	7
34	Georgia-Pacific Corp	Claxton	142	201	201	201	201	201	201	31	J. W. Exley Lumber Co	Clyo	12	12	12	12	12	12	12
37	Georgia-Pacific Corp	Sterling	142	142	250	250	250	250	250	14	Keadle Lbr Enterprises	Thomaston	61	61	61	94	106	123	123
22	Georgia-Pacific Corp	Warrenton	189	201	201	201	201	201	201	43	Little Suwannee Lbr Co	Homerville	20	20	20	20	20	20	20
41	Gilman Building Prod Co	Blackshear	201	201	201	201	212	212	212	10	Mount Yonah Lumber Co	Cleveland	19	19	19	19	19	19	19
28	Gilman Building Prod Co	Dudley	243	243	243	243	243	243	243	23	Pollard Lumber Co	Appling	81	81	81	81	81	125	125
44	Gilman Building Prod Co	Fitzgerald	241	241	241	241	241	241	241	36	Shearouse Lumber Co	Pooler	17	17	17	17	17	17	17
27	Griffin Lumber Co	Cordele	106	106	106	111	111	111	111	8	Sparks Lumber Co	Ellijay	11	11	11	11	11	11	11
4	Guess Brothers Lbr Co	Tunnel Hill	30	30	30	30	30	30	30	7	Sutton Lumber Co	Tennga	14	14	14	14	14	14	14
24	International Paper Corp	Augusta	307	307	307	307	307	307	307	40	Varn Wood Prod	Hoboken	94	94	94	94	94	94	94
39	International Paper Corp	Folkston	153	153	153	156	165	189	212	16	Vaughn Lumber Co	Forsyth	21	21	21	21	21	21	21
35	International Paper Corp	Meltdrim	253	260	271	295	307	307	307	33	W. M. Sheppard Lumber Co	Brooklet	64	64	64	64	64	64	64
Softwood lumber (1,000 m³)			1997	1998	1999	2000	2001	2002	2003	Softwood timber (1,000 m³) (1997 data)			1997	1998	1999	2000	2001	2002	2003
Number of sawmills			58	58	56	56	55	54	50	(g)	Growing stock	431087							
Estimated capacity			6426	6725	6741	7040	6767	6822	6703	(f/g)	Drain to growing stock		0.065	0.064	0.062	0.064	0.061		
(a)	Reported output (U.S. Census)		6594	6698	6960	6544	5695												
Implied capacity utilization			1.03	1.00	1.03	0.93	0.84												
Softwood plywood																			
Estimated capacity			1058	1058	1066	1053	925												
(b)	Reported output (A.P.A.-Eng.Wd.Assoc.)		888	918	890	1008	790												
OSB																			
Estimated capacity			1009	1010	1032	1180	1180												
(c)	Reported output (A.P.A.-Eng.Wd.Assoc.)		937	1012	960	1166	1172												
(d)	Particleboard/MDF (Composite Panel Assoc)		732	729	730	730	730												
(e)	Softwd. pulpwood receipts(A.Pulpwd.A.)		18116	17695	16529	17461	17231												
(f)	Approximate drain (a+b+1.6c+d+e)		27829	27659	26646	27609	26321												

Idaho

Softwood Roundwood Inventory and Sawmill Capacity



Plant Capacity (Thous. Cub. Met.)

10

355

700

Idaho

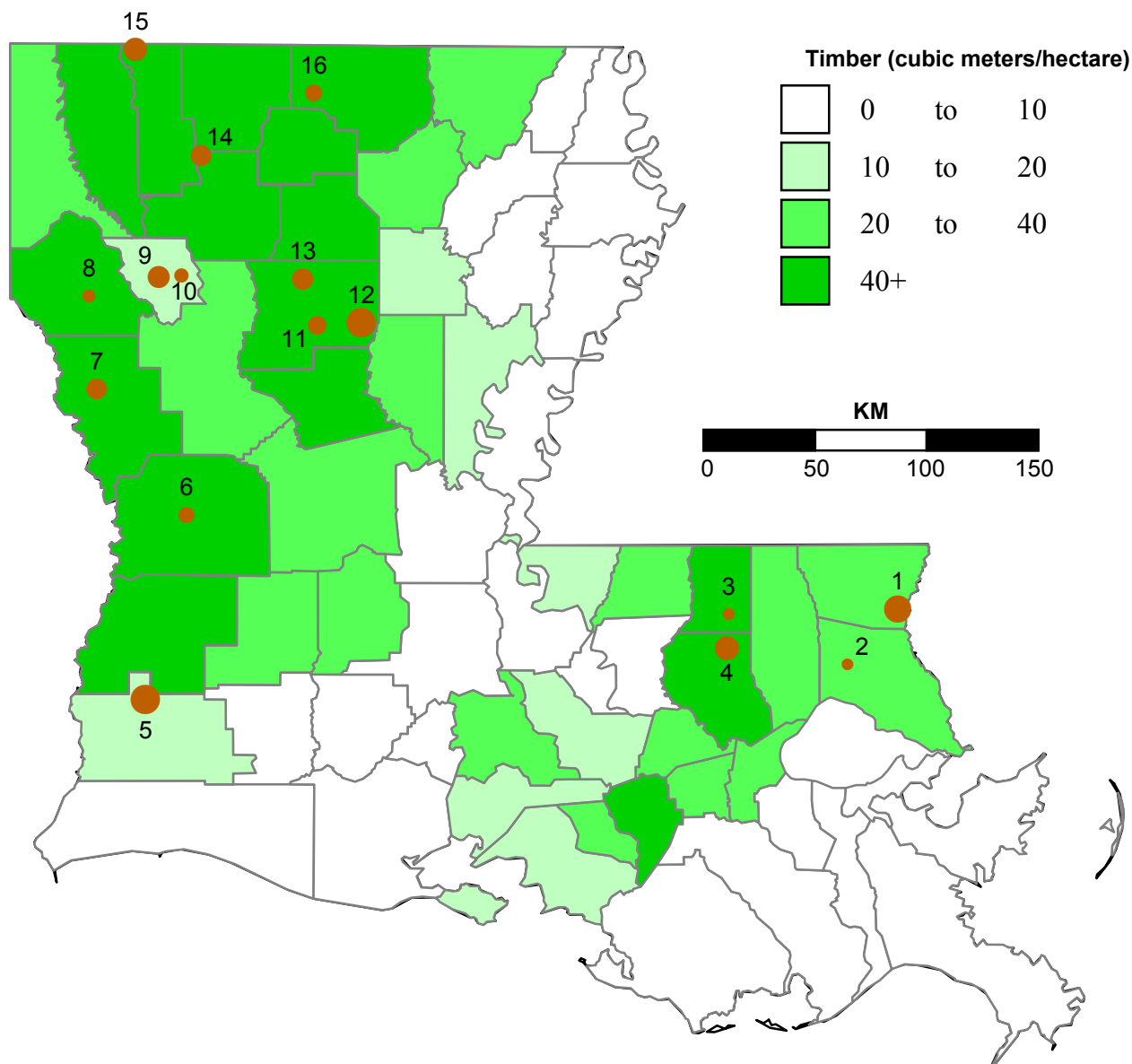
Mill			Capacity / Production (1,000 m³)						
I.D.	Name	Location	1997	1998	1999	2000	2001	2002	2003
Closed Mills									
	Producers Lumber Co	Boise	19						
	Gem State Lum Co	Julietta	24						
	Crown Pacific	Sandpoint	35						
	Rayonier	Plummer	165	118					
	Boise Cascade	Horseshoe Be	132	99					
	Croman Corp	Boise	153	153	153	94			
	Poxleitner Sawmill	Keuterville	9	9	9	9			
	Camas Prairie Lumber	Craigmont	35	35	47	83			
	Central Idaho For Prod	Princeton	47	47	47	47			
	Crown Pacific	Coeur d'Alene	236	236	236	236	236		
	Boise Cascade	Cascade/Emmr	198	224	224	224	112		
Stud Mills									
23	Idaho Veneer Co	Samuels	85	85	85	85	85	85	85
24	Louisiana-Pacific Corp	Bonniers Ferry		59	283	283	295	295	295
25	Louisiana-Pacific Corp	Moyie Springs	245	319	330	354	378	425	425
19	Merritt Bros Lumber Co	Athol	177	177	201	201	201	201	201
11	Regulus Stud Mill	Saint Maries	130	130	130	130	130	142	142
15	Stimson Lumber Co	Coeur d'Alene	304	328	330	330	330	330	330
22	Stimson Lumber Co	Priest River	283	283	330	366	366	366	366
	Softwood lumber (1,000 m³)		1997	1998	1999	2000	2001	2002	2003
	Number of sawmills		35	33	31	31	27	25	25
	Estimated capacity		4642	4762	4980	5187	5026	4855	4855
(a)	Reported output (WWPA)		4387	4503	4661	4475	4326		
	Implied capacity utilization		0.95	0.95	0.94	0.86	0.86		
	Softwood plywood								
	Estimated capacity		436	436	436	436	250		
(b)	Reported output (A.P.A.-Eng.Wd.Assoc.)		380	320	352	300	250		
	OSB								
(c)	Estimated capacity								
	Reported output (A.P.A.-Eng.Wd.Assoc.)								
(d)	Particleboard/MDF (Composite Panel Assoc		129	129	129	129	129		
(e)	Softwd. pulpwood receipts(FPL estimate)		2137	1966	2020	1909	1521		
(f)	Approximate drain (1.5a+b+c+d+e)		9227	9169	9493	9050	8389		

Mill I.D.	Name	Location	Capacity / Production (1,000 m³)						
			1997	1998	1999	2000	2001	2002	2003
Dimension Mills									
3	Bennett Forest Industries	Grangeville	83	83	83	83	83	83	83
7	Clearwater Forest Industries	Kooskia	71	71	71	71	71	71	71
5	Empire Lumber Co	Kamiah	94	94	118	118	118	118	118
2	Evergreen Forest Prod	New Meadow	123	123	123	123	123	123	123
21	J.D. Lumber	Priest River	153	153	153	307	307	307	307
9	Konkolville Lumber Co	Orofino	57	57	59	64	64	64	64
18	Louisiana-Pacific Corp	Chilco (Athol	281	295	295	283	330	437	437
4	Potlatch Corp	Lewiston	333	333	378	378	378	389	389
12	Potlatch Corp	Saint Maries	203	203	203	208	212	212	212
20	Riley Creek Lumber Co	Laclede	255	307	330	330	425	425	425
Board Mills									
10	Bennett Lumber Co	Princeton	170	189	189	189	189	189	189
17	Idaho Veneer Co	Post Falls	47	47	59	59	59	59	59
14	Malloy Lumber Co	Kingston	47	47	47	57	59	59	59
16	Stimson Lumber Co	Coeur d'Alen	182	182	189	201	201	201	201
6	Three Rivers Timber	Kamiah	130	142	142	142	142	142	142
8	Timberline	Weippe	101	101	101	101	101	101	101
Specialty or Unknown									
1	Jensen Lumber Co	Ovid	19	19	19	19	19	19	19
13	Whiteman Lumber Co	Cataldo	14	14	14	14	14	14	14
	Softwood timber (1,000 m³)	(1992 data)	1997	1998	1999	2000	2001	2002	2003
(g)	Growing stock (ex FS)	251795							
(f/g)	Drain to growing stock		0.037	0.036	0.038	0.036	0.033		
Typical sawtimber costs									
Softwood (State owned, \$/m³)									
	Standing		56	47	53	26	na	na	
	Delivered		na	na	na	na	na	na	

source: *State of Idaho*

Louisiana

Softwood Roundwood Inventory and Sawmill Capacity



Plant Capacity (Thous. Cub. Met.)

10

355

700

Louisiana

			Capacity / Production (1,000 m³)						
Mill I.D.	Name	Location	1997	1998	1999	2000	2001	2002	2003
			Closed Mills						
	Boise Cascade	Fisher	203	203					
	Hunt Lumber Co	Castor	130	130	130	130			
	Angie Lumber Co	Angie	35	35	35	35	35		
			Stud Mills						
4	Weyerhaeuser Co	Holden	286	286	286	293	293	293	293
7	Weyerhaeuser Co	Zwolle	130	137	142	153	177	189	194
			Dimension Mills						
9	Hood Industries	Coushatta	186	186	236	236	236	236	236
15	International Paper Corp	Springhill	271	271	271	271	271	271	271
1	Joe N. Miles & Sons	Bogalusa	354	354	354	354	354	389	472
16	Leesville Lumber Co	Bernice	106	106	106	106	44	106	106
	Softwood lumber (1,000 m³)		1997	1998	1999	2000	2001	2002	2003
	Number of sawmills		18	19	18	18	17	16	16
	Estimated capacity		2812	2864	2885	2947	2889	3025	3237
(a)	Reported output (U.S. Census)		2520	2613	2723	2705	2561		
	Implied capacity utilization		0.90	0.91	0.94	0.92	0.89		
	Softwood plywood								
	Estimated capacity		2681	2392	2348	2348	2282		
(b)	Reported output (A.P.A.-Eng.Wd.Assoc.)		2177	2002	1952	1954	1572		
	OSB								
	Estimated capacity		540	544	566	575	620		
(c)	Reported output (A.P.A.-Eng.Wd.Assoc.)		587	521	550	515	598		
(d)	Particleboard/MDF (Composite Panel Assoc)		516	504	567	550	550		
(e)	Softwd. pulpwood receipts(A.Pulpwd.A.)		14113	13816	14279	14384	14355		
(f)	Approximate drain (a+b+.3c+d+e)		19520	19106	19703	19763	19235		

Mill			Capacity / Production (1,000 m³)						
I.D.	Name	Location	1997	1998	1999	2000	2001	2002	2003
6	Leesville Lumber Co	Leesville	85	90	90	90	90	90	90
11	PBS Lumber Mfg	Winnfield	54	59	99	142	142	142	142
5	Temple-Inland	Dequincy	330	342	342	342	354	354	354
12	West Fraser Timber Co	Joyce	260	260	425	425	425	437	472
13	Weyerhaeuser Co	Dodson	281	281	149	149	189	217	307
14	Weyerhaeuser Co	Taylor		21	118	118	177	198	198
Board Mills									
8	Mims Lumber Co	Mansfield	35	35	35	35	35	35	35
Specialty or Unknown									
10	Almond Bros Lumber Co	Coushatta	52	54	54	54	54	54	54
3	Conway Guiteau Lumber Co	Amite	8	8	8	8	8	8	8
2	Ryan Forest Prod	Covington	5	5	5	5	5	5	5
Softwood timber (1,000 m³) (1992 data)			1997	1998	1999	2000	2001	2002	2003
(g)	Growing stock	281248							
(f/g)	Drain to growing stock		0.069	0.068	0.070	0.070	0.068		
Typical sawtimber costs									
Pine (\$/m³)									
	Standing		55	53	48	48	43	45	
	Delivered		64	72	61	63	56	59	
source: Timber Mart South									

source: *Timber Mart South*

Maine

Softwood Roundwood Inventory and Softwood Sawmill Capacity

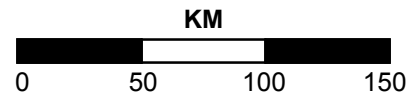
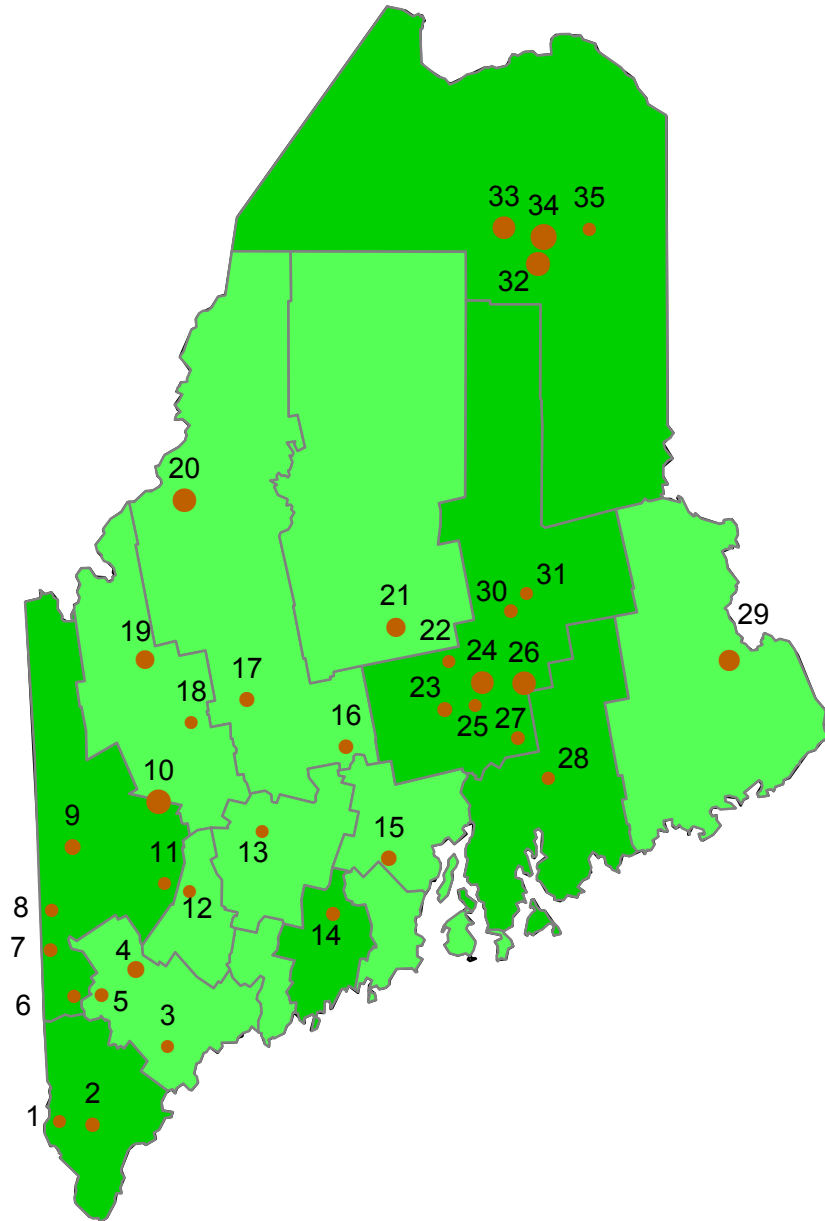
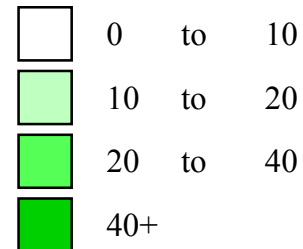
Plant Capacity (Thous. Cub. Met.)

10

355

700

Timber (cubic meters/hectare)



Maine

Mill			Capacity / Production (1,000 m³)						
I.D.	Name	Location	1997	1998	1999	2000	2001	2002	2003
	Marriner Lumber Co	Brunswick	9	9	9	7			
	Sherman Lumber Co	Sherman Sta	17	17	17	17			
	International Paper Corp	Passadumkea	198	201	201	201	47		

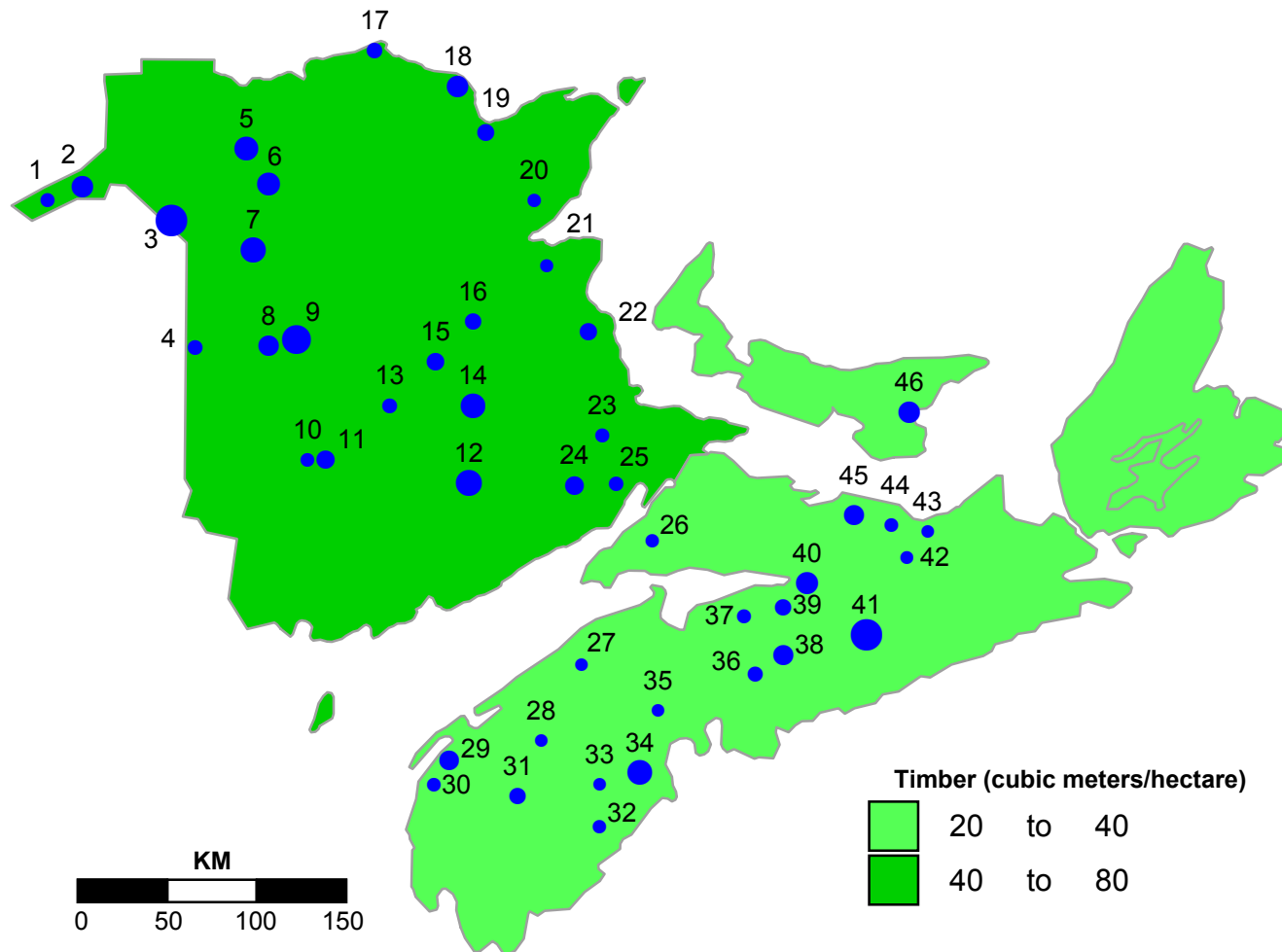
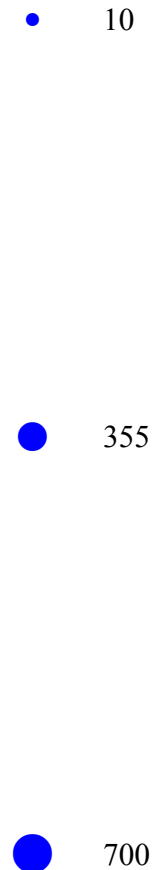
Mill	Capacity / Production (1,000 m³)								
I.D.	Name	Location	1997	1998	1999	2000	2001	2002	2003
22	Parker Lumber Co	Bradford	12	12	12	12	12	12	12
28	Richardson Forest Prod	Ellsworth	14	17	17	17	17	17	17
15	Robbins Lumber	Searsmount	53	53	53	53	53	53	53
27	R. Leon Williams Lumber Co	Clifton	24	24	24	24	24	24	24
11	R.E. Lowell Lumber	Buckfield	12	12	12	12	12	12	12
6	Thomas Hammond & Son	East Hiram	14	14	14	14	14	14	14
Timber Mills									
25	Stillwater Lumber	Stillwater	12	12	12	12	12	12	12
Stud Mills									
26	CanFor	Costigan	191	194	194	194	59	0	24
29	Georgia-Pacific Corp	Woodland	132	156	156	156	156	156	156
32	Nexfor Fraser Papers	Ashland	142	153	172	177	177	201	224
Dimension Mills									
35	Beaulieu Bros. Lumber	Chapman	17	17	17	17	17	17	17
21	Gerard Crete & Fils	Dover-Foxcroft	83	83	83	83	83	106	118
33	J D Irving/Pinkham	Ashland	153	153	153	153	153	153	153
24	James River Timber Corp	Old Town	189	189	189	189	189	189	189
20	Moose River Lumber Co	Moose River	94	212	260	260	260	236	236
34	Nexfor Fraser Papers	Masardis	236	248	260	271	271	271	271
19	Stratton Lumber Co	Stratton	106	106	106	106	106	106	106
Specialty or Unknown									
14	N.C. Hunt	Jefferson	30	30	30	30	30	30	30
	Softwood timber (1,000 m³ (2001 data)		1997	1998	1999	2000	2001	2002	2003
(g)	Growing stock	360909							
(f/g)	Drain to growing stock		0.020	0.020	0.019	0.020	0.017		
Typical sawtimber costs									
Pine (White) (\$/m³)									
	Standing		27	24	29	30	30		
	Delivered		na	na	na	na	na		
source: State of Maine									

source: *State of Maine*

Maritime Provinces

Softwood Roundwood Inventory and Softwood Sawmill Capacity

Plant Capacity (Thous. Cub. Met.)



New Brunswick/Nova Scotia/Pr. Edward Island

Mill I.D.	Name	Location	Capacity / Production (1,000 m³)					
			1997	1998	1999	2000	2001	2002
			Closed Mills					
	Repap	Newcastle, NB	21	21	21	21		
			White Pine					
17	J D Irving	Doaktown, NB	94	94	94	94	94	94
			Timber Mills					
13	H J Crabbe & Sons Ltd	Bristol, NB	47	47	47	47	47	47
33	Hugh Park & Son	Thorburn, NS	9	9	9	9	9	9
			Stud Mill					
16	Chaleur Sawmill Associates	Belledune, NB	165	165	177	177	177	177
2	Delco Forest Prod	Rexton, NB	89	89	89	89	89	89
34	Deniso Lebel	Kedgwick, NB	189	212	236	236	236	236
44	Deniso Lebel	Scotsburn, NS	85	94	94	106	130	142
18	Devon Lumber Co	Fredericton, NB	31	31	31	31	31	31
30	H A Fawcett & Son Ltd	Petitcodiac, NB	118	118	118	118	118	118
22	Heffer For Prod Ltd	Lower Sackville, NS	24	24	24	24	24	24
5	J D Irving	Georgetown, PEI	142	177	177	177	177	177
45	J D Irving	St. Leonard, NB	319	319	319	463	463	463
10	J D Irving	Sussex, NB	283	283	295	295	295	295
36	N American For Prod	St. Quentin, NB	201	208	212	212	212	212
1	UPM Kymmene	Bathurst, NB	84	84	84	84	84	84
			Dimension Mills					
24	Adrien Arseneault Sawmill	Balmoral, NB	22	59	59	59	59	59
4	Ashley Colter	Boiestown, NB	47	47	47	47	47	47
31	Blackville Lumber	Blackville, NB	59	59	59	59	71	71
32	Bowater	Baker Brook, NB	142	142	177	177	177	177
26	Bowater	Bridgewater, NS	78	156	156	156	234	260
	Softwood lumber (1,000 m³)		1997	1998	1999	2000	2001	2002
	Number of sawmills		47	47	47	47	46	46
	Estimated capacity		4216	4716	4903	5283	5377	5415
	Reported output (Stat. Can.)		4070	4552	5010	5053	5389	
	Implied capacity utilization		0.97	0.97	1.02	0.96	1.00	
	OSB							
	Estimated capacity		250	305	336	336	336	
	Softwood Roundwood Removals							
(a)	Logs and Bolts		9512	9638	10366	10491		
(b)	Pulpwood		4708	3188	2962	3195		
(c)	Miscellaneous			609	6	23		

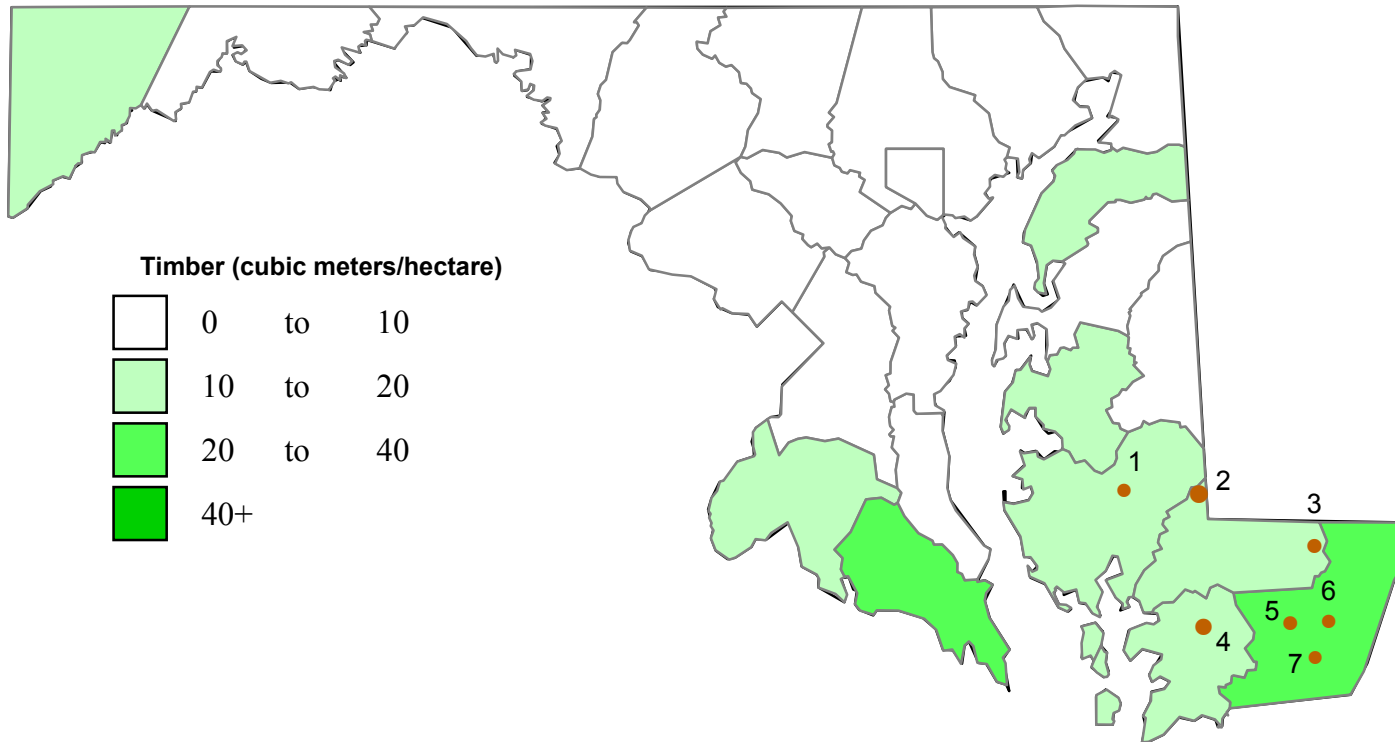
Mill I.D.	Name	Location	Capacity / Production (1,000 m³)					
			1997	1998	1999	2000	2001	2002
28	Elmsdale Lum Co	Elmsdale, NS	47	47	47	50	52	52
43	J D Irving	Chipman, NB	212	212	212	253	253	253
14	J D Irving	Deersd/Juniper, NB	153	153	153	153	153	153
8	J D Irving	Truro, NS	59	118	142	189	189	189
15	J D Irving	Weymouth, NS	71	78	83	135	135	135
46	Lakeburn Lumber Co	Moncton, NB	35	35	35	35	35	35
3	Ledwidge Lumber Co	Enfield, NS	123	130	142	142	142	142
12	M L Wilkins & Son Ltd	Fredericton, NB	59	106	106	106	106	106
40	McTara Ltd	Upp.Musquodoboit,	236	413	460	460	460	460
29	Newcastle Lumber Co	Newcastle, NB	24	24	24	24	24	24
39	Nexfor Fraser Papers	Juniper, NB	330	330	330	378	378	378
27	Nexfor Fraser Papers	Plaster Rock, NB	231	236	236	271	271	271
23	T P Downey & Sons	Hillsborough, NB	40	40	40	40	40	40
			Specialty or Unknown					
38	Barrett Lumber Co	Sackville, NS	12	12	12	12	12	12
11	Comeau Lumber	Meteghan, NS	19	19	26	26	26	26
41	C.F.Dickson For Prod	Westville, NS	28	28	28	28	28	28
21	Gilles Begin Lumber Ltd	Clair, NB	35	35	35	35	35	35
35	Harry Freeman & Son	Greenfield, NS	71	71	71	71	71	71
6	Hoeg Bros Lumber	S. Hampton, NS	18	18	24	24	24	24
20	Holdwright Lumber prod	Queens Co., NS	9	9	9	9	9	9
9	Julimar Lumber	Brookfield, NS	64	71	71	71	71	71
7	Kingston Lumber & Bldg Sup	Kingston, NS	12	12	12	12	12	12
37	Miramichi Pulp & Paper	Miramichi, NB	19	19	19	19	19	19
25	Murray Reeves	New Ross, NS	11	11	11	11	11	11
19	Russel White Lumber	Kennetcook, NS	35	35	35	35	35	35
42	Williams Bros Ltd	Barney's River, NS	15	15	15	15	15	15
	Softwood timber (1,000 m³)	(1992 data)	1997	1998	1999	2000	2001	2002
(d)	Mature growing stock	260000						
(e)	Annual private & provincial allowable cut	10735						
(f)	Total removals	(a+b+c)	14220	13435	13334	13709		
	Removals to growing stock	(e/d)	0.055	0.052	0.051	0.053		

Typical timber costs (US\$/m³)

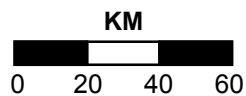
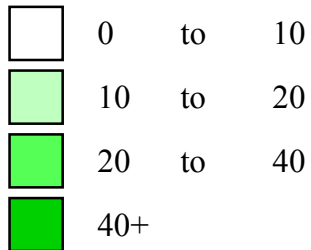
Standing	na	na	na	na
Delivered	na	na	na	na

Maryland

Softwood Roundwood Inventory and Softwood Sawmill Capacity



Timber (cubic meters/hectare)



Plant Capacity (Thous. Cub. Met.)

10

355

700

Maryland

Mill I.D.	Name	Location	Capacity / Production (1,000 m³)						
			1997	1998	1999	2000	2001	2002	2003
	Spicer	Church Creek	11	11	11	12			
3	Cropper Brothers Lumber Co	Willards	20	26	33	33	31	31	31
1	Dorchester Lumber Co	Linkwood	17	17	17	17	17	17	17
	Softwood lumber (1,000 m³)		1997	1998	1999	2000	2001	2002	2003
	Number of sawmills		8	8	8	8	7	7	7
	Estimated capacity		228	238	248	250	248	248	248
(a)	Reported output (U.S. Census)		205	222	253	257	243		
	Implied capacity utilization		0.90	0.93	1.02	1.03	0.98		
	Softwood plywood								
	Estimated capacity								
(b)	Reported output (A.P.A.-Eng.Wd.Assoc.)								
	OSB								
	Estimated capacity								
(c)	Reported output (A.P.A.-Eng.Wd.Assoc.)								
(d)	Particleboard/MDF (Composite Panel Assoc)								
(e)	Softwd. pulpwood & miscellaneous(FPL esti		178	170	164	164	154		
(f)	Approximate drain (c+i)	(a+e)	383	392	416	421	397		

Mill I.D.	Name	Location	Capacity / Production (1,000 m³)						
			1997	1998	1999	2000	2001	2002	2003
6	J. Milton Laws	Snow Hill	16	16	16	16	16	16	16
2	J. V. Wells Lumber Co	Sharptown	74	74	74	76	87	87	87
5	Millville Lumber Co	Snow Hill	21	21	24	24	24	24	24
7	Paul M. Jones Lumber Co	Snow Hill	10	10	10	10	10	10	10
4	St. Laurent Paperbd	Princess Anne	59	64	64	64	64	64	64
	Softwood timber (1,000 m³)	(1992 data)	1997	1998	1999	2000	2001	2002	2003
(g)	Growing stock	23626							
(f/g)	Drain to growing stock		0.016	0.017	0.018	0.018	0.017		
	Typical sawtimber costs								
	Pine (\$/m³)								
	Standing		na	na	na	na	na	na	na
	Delivered		na	na	na	na	na	na	na

Michigan

Softwood Roundwood Inventory and Softwood Sawmill Capacity

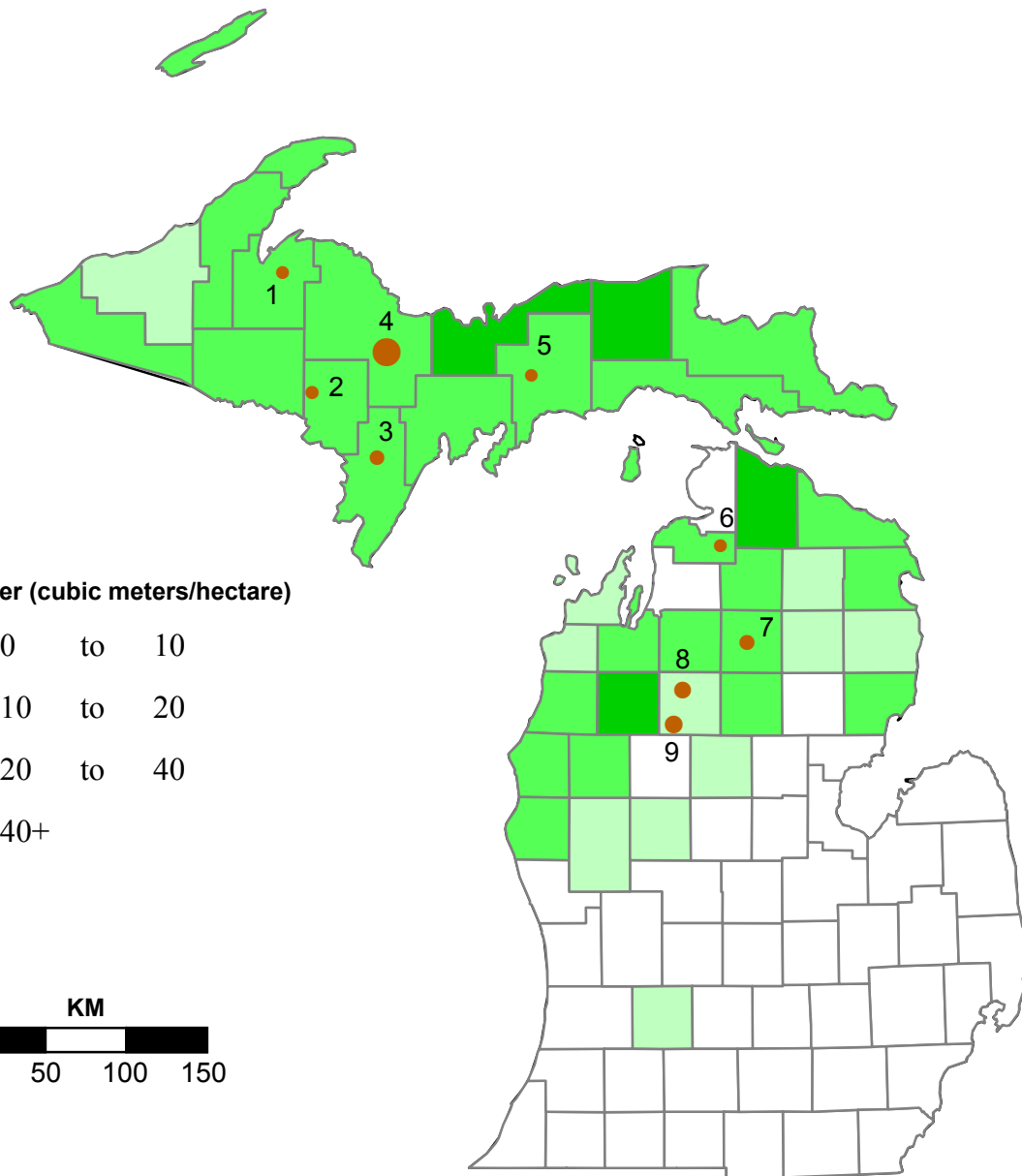
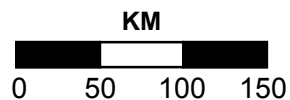
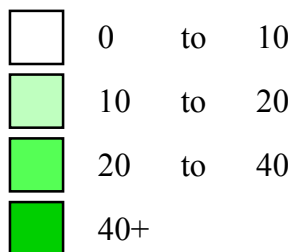
Plant Capacity (Thous. Cub. Met.)

● 10

● 355

● 700

Timber (cubic meters/hectare)



Michigan

Mill I.D.	Name	Location	Capacity / Production (1,000 m³)						
			1997	1998	1999	2000	2001	2002	2003
					Timber Mills				
9	John A. Biewer Lumber Co	McBain	78	87	97	97	97	97	97
					Stud Mills				
4	Louisiana-Pacific Corp	Gwinn	57	260	283	295	354	401	401
					Board Mills				
8	Pine Tech	Lake City	66	83	83	83	83	83	83
	Softwood lumber (1,000 m³)		1997	1998	1999	2000	2001	2002	2003
	Number of sawmills		9	9	9	9	9	9	9
	Estimated capacity		354	583	617	628	687	735	735
(a)	Reported output (U.S. Census)		347	458	491	467	588		
	Implied capacity utilization		0.98	0.79	0.80	0.74	0.85		
	Softwood plywood								
	Estimated capacity								
(b)	Reported output (A.P.A.-Eng.Wd.Assoc.)								
	OSB								
	Estimated capacity		774	809	841	841	841		
(c)	Reported output (A.P.A.-Eng.Wd.Assoc.)		783	770	827	843	855		
(d)	Particleboard/MDF (Composite Panel Assoc)		487	487	451	460	460		
(e)	Softwd. pulpwood receipts(A.Pulpwd.A.)		672	673	631	912	961		
(f)	Approximate drain	(a+b+c*.15+d+e)	1624	1733	1697	1966	2137		

Mill	Capacity / Production (1,000 m³)								
I.D.	Name	Location	1997	1998	1999	2000	2001	2002	2003
Specialty or Unknown									
7	AJD Forest Prod	Grayling	52	52	52	52	52	52	52
2	Aspen Lumber Co	Sagola	21	21	21	21	21	21	21
3	Cedar River Lumber Co	Powers	44	44	44	44	44	44	44
1	Erickson Lumber	L'Anse	15	15	15	15	15	15	15
5	Manistique Saw and Planing	Manistique	7	7	7	7	7	7	7
6	Matelski Lumber Co	Boyne Falls	14	14	14	14	14	14	14

Softwood timber (1,000 m³)			(2000 data)						
			1997	1998	1999	2000	2001	2002	2003
(g)	Growing stock	255537							

(f/g)	Drain to growing stock		0.006	0.007	0.007	0.008	0.008		
-------	------------------------	--	-------	-------	-------	-------	-------	--	--

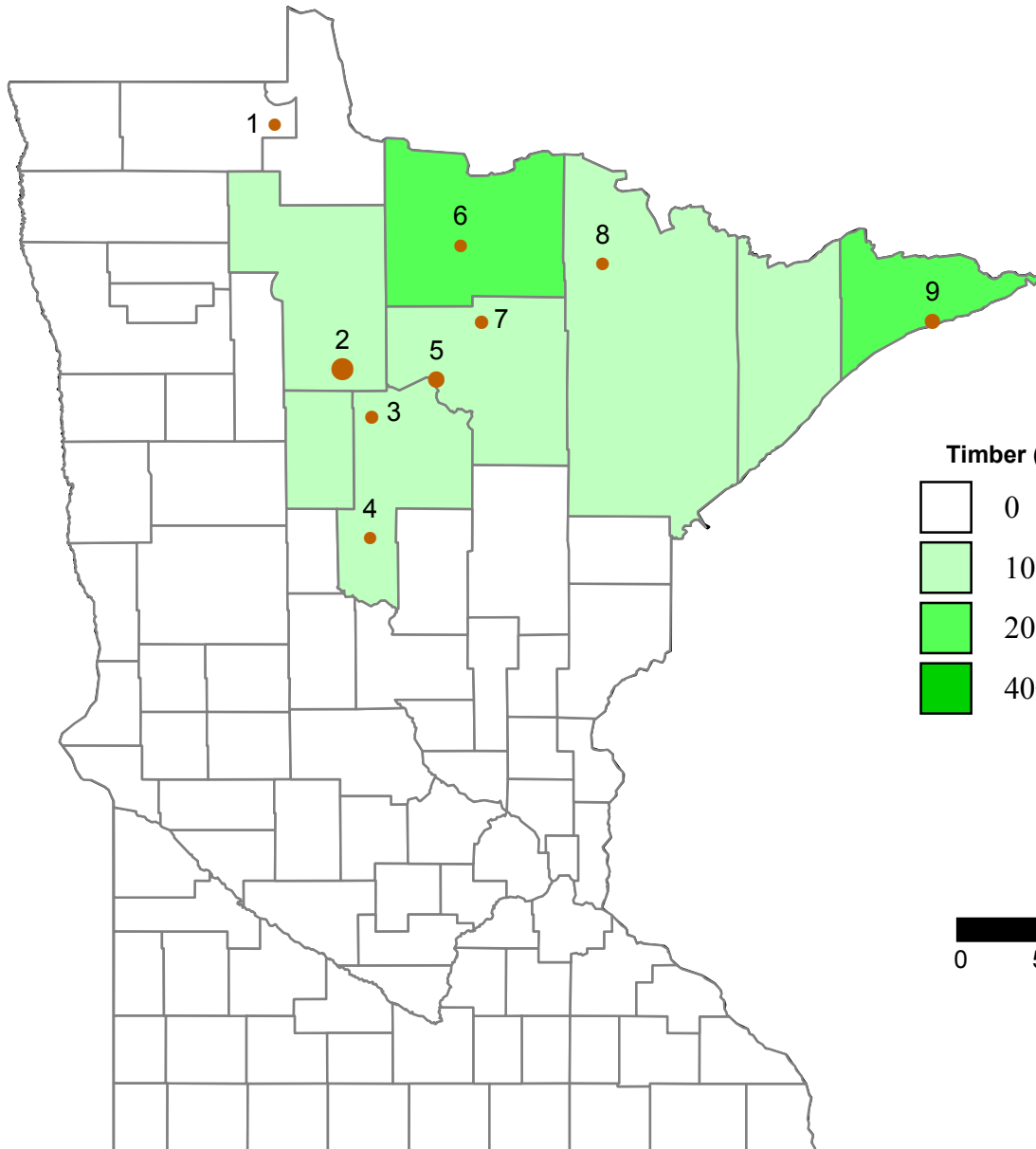
Typical sawtimber costs

Pine (White) (\$/m³)									
			21	23	21	21	27	24	
Standing			na	na	na	na	na	na	
Delivered			na	na	na	na	na	na	

source: *State of Michigan*

Minnesota

Softwood Roundwood Inventory and Softwood Sawmill Capacity



Plant Capacity (Thous. Cub. Met.)

10

355

700

Timber (cubic meters/hectare)



0 to 10

10 to 20

20 to 40

40+

KM

0 50 100 150

Minnesota

Mill I.D.	Name	Location	Capacity / Production (1,000 m³)						
			1997	1998	1999	2000	2001	2002	2003
			Closed Mills						
	Red Lake For Prod	Redby	35						
	Hedstrom Lumber Co	Two Harbors	24	24	24	24			
			Stud Mills						
9	Hedstrom Lumber Co	Grand Marais	59	59	59	59	59	59	59
2	Potlatch Corp	Bemidji	177	177	177	186	186	201	201
			Dimension Mills						
3	Cass Forest Prod	Cass Lake	24	24	24	24	24	24	24
Softwood lumber (1,000 m³)			1997	1998	1999	2000	2001	2002	2003
	Number of sawmills		11	10	10	10	9	9	9
	Estimated capacity		460	425	431	440	417	431	431
(a)	Reported output (U.S. Census)		401	427	359	349	309		
	Implied capacity utilization		0.87	1.00	0.83	0.79	0.74		
	Softwood plywood								
	Estimated capacity								
(b)	Reported output (A.P.A.-Eng.Wd.Assoc.)								
	OSB								
	Estimated capacity		1404	1412	1419	1434	1593	1597	1597
(c)	Reported output (A.P.A.-Eng.Wd.Assoc.)		1290	1417	1455	1423	1481		
(d)	Particleboard/MDF (Composite Panel Assoc)								
(e)	Softwd. pulpwood receipts(A.Pulpwd.A.)		913	900	811	885	999		
(f)	Approximate drain (a+.15c+d+e)		1508	1539	1388	1447	1530		

Mill I.D.	Name	Location	Capacity / Production (1,000 m³)						
			1997	1998	1999	2000	2001	2002	2003
6	Page & Hill Forest Prod	Big Falls	14	14	14	14	14	14	14
5	Rajala Timber Co	Deer River	83	83	83	83	83	83	83
7	Rajala Timber Co	Bigfork	24	24	30	30	30	30	30
			Specialty or Unknown						
4	Christensen For Prod	Pine River	2	2	2	2	2	2	2
8	Northern Lights Tmbr & Lumt Orr		14	14	14	14	14	14	14
1	Roosevelt Lumber	Roosevelt	5	5	5	5	5	5	5
Softwood timber (1,000 m³) (2001 data)			1997	1998	1999	2000	2001	2002	2003
(g)	Growing stock	130724							
(f/g)	Drain to growing stock		0.012	0.012	0.011	0.011	0.012		

Typical sawtimber costs

Pine (Red & White) (\$/m³)

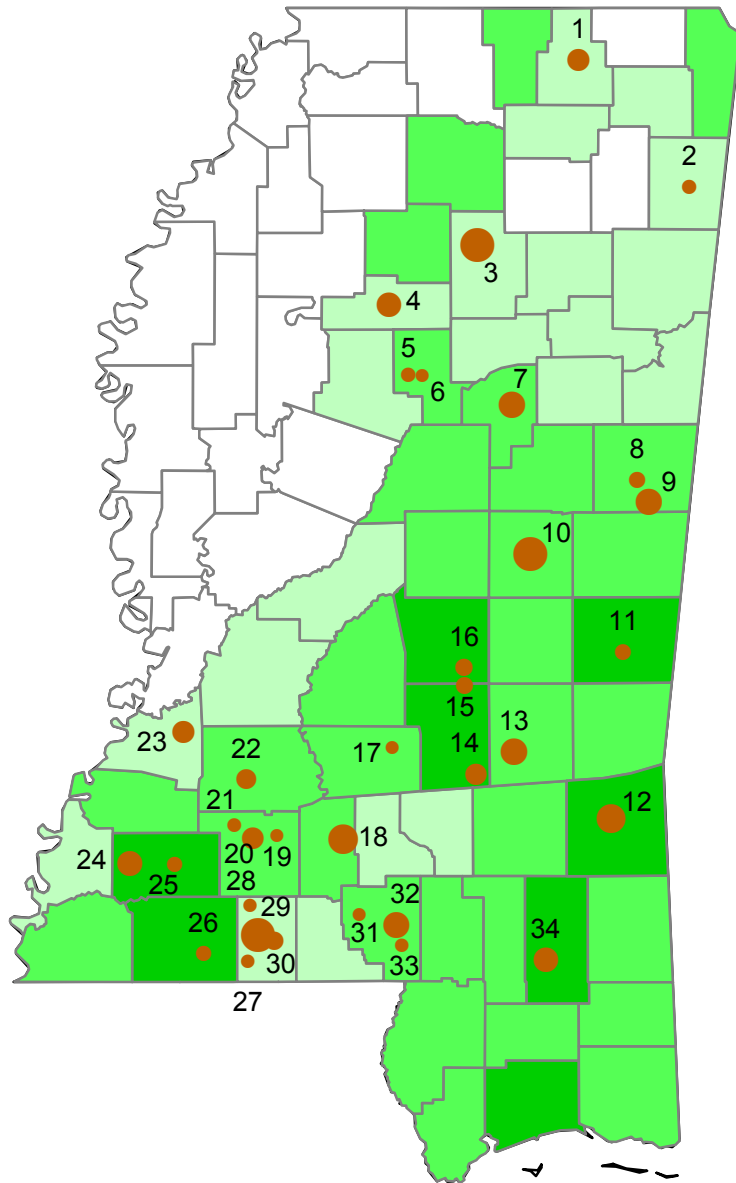
Standing	30	27	34	30	29
Delivered	na	na	na	na	na

 source: *State of Minnesota*

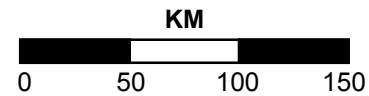
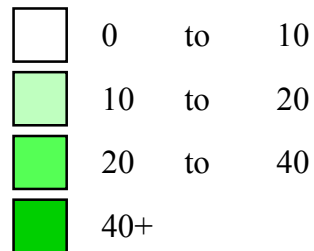
Mississippi

Softwood Roundwood Inventory and Softwood Sawmill Capacity

Plant Capacity (Thous. Cub. Met.)



Timber (cubic meters/hectare)



10

355

700

Mississippi

Mill I.D.	Name	Location	Capacity / Production (1,000 m³)						
			1997	1998	1999	2000	2001	2002	2003
			Closed Mills						
	T. F. Evans Lumber Co	Fulton	33						
	Clark Forest Prod	Leakesville	24	24	24	24			
	Evergreen For Ind	Sandy Hook	28	28	28	28	19		
	Pine Belt Wood Prod	Hattiesburg	83	83	83	35	83		
	Neshoba Lumber	Philadelphia	83	89	0	94	59		
	Wiggins Lumber Co	Wiggins	94	94	94	94	59		
	International Paper Corp	Morton	330	330	330	330	330	91	
	Hankins Lumber Co	Quitman	153	153	153	153	153	153	
			Timber Mills						
27	Byrd Lumber Co	Fernwood	19	19	19	19	19	19	19
2	Homan For Prod	Fulton	28	33	33	33	33	33	33
16	Jack Batte & Sons	Forest	61	61	61	61	61	83	83
19	Lincoln Lumber Co	Brookhaven	12	12	12	12	12	12	12
33	Rogers Lumber Corp	Columbia	18	18	18	18	18	18	18
			Stud Mills						
14	Georgia-Pacific Corp	Taylorsville	158	153	158	158	158	158	158
			Dimension Mills						
21	Columbus Lbr Co	Brookhaven	24	24	24	24	24	24	24
20	Columbus Lbr Co	Brookhaven	160	165	165	165	165	165	165
25	Franklin Timber Co	Bude	42	42	42	42	42	42	47
13	Georgia-Pacific Corp	Bay Springs	248	248	264	264	276	290	290
32	Georgia-Pacific Corp	Columbia	212	260	271	271	271	271	271
34	Georgia-Pacific Corp	New Augusta	236	236	236	236	236	236	236
Softwood lumber (1,000 m³)			1997	1998	1999	2000	2001	2002	2003
Number of sawmills			42	41	40	41	40	36	34
Estimated capacity			5580	5680	5887	6038	6028	5677	5582
(a)	Reported output (U.S. Census)		5442	5426	5886	5652	5492		
Implied capacity utilization			0.98	0.96	1.00	0.94	0.91		
Softwood plywood									
Estimated capacity			1296	1207	1207	1207	1129		
(b)	Reported output (A.P.A.-Eng.Wd.Assoc.)		1245	1154	1093	1073	825		
OSB									
Estimated capacity			650	664	664	664	664		
(c)	Reported output (A.P.A.-Eng.Wd.Assoc.)		582	664	670	668	648		
(d)	Particleboard/MDF (Composite Panel Ass.		862	867	910	920	920		
(e)	Softwd. pulpwood receipts(A.Pulpwd.A.)		9007	8397	8458	8303	8369		
(f)	Approximate drain (a+b+1.6c+d+e)		17488	16906	17419	17017	16642		

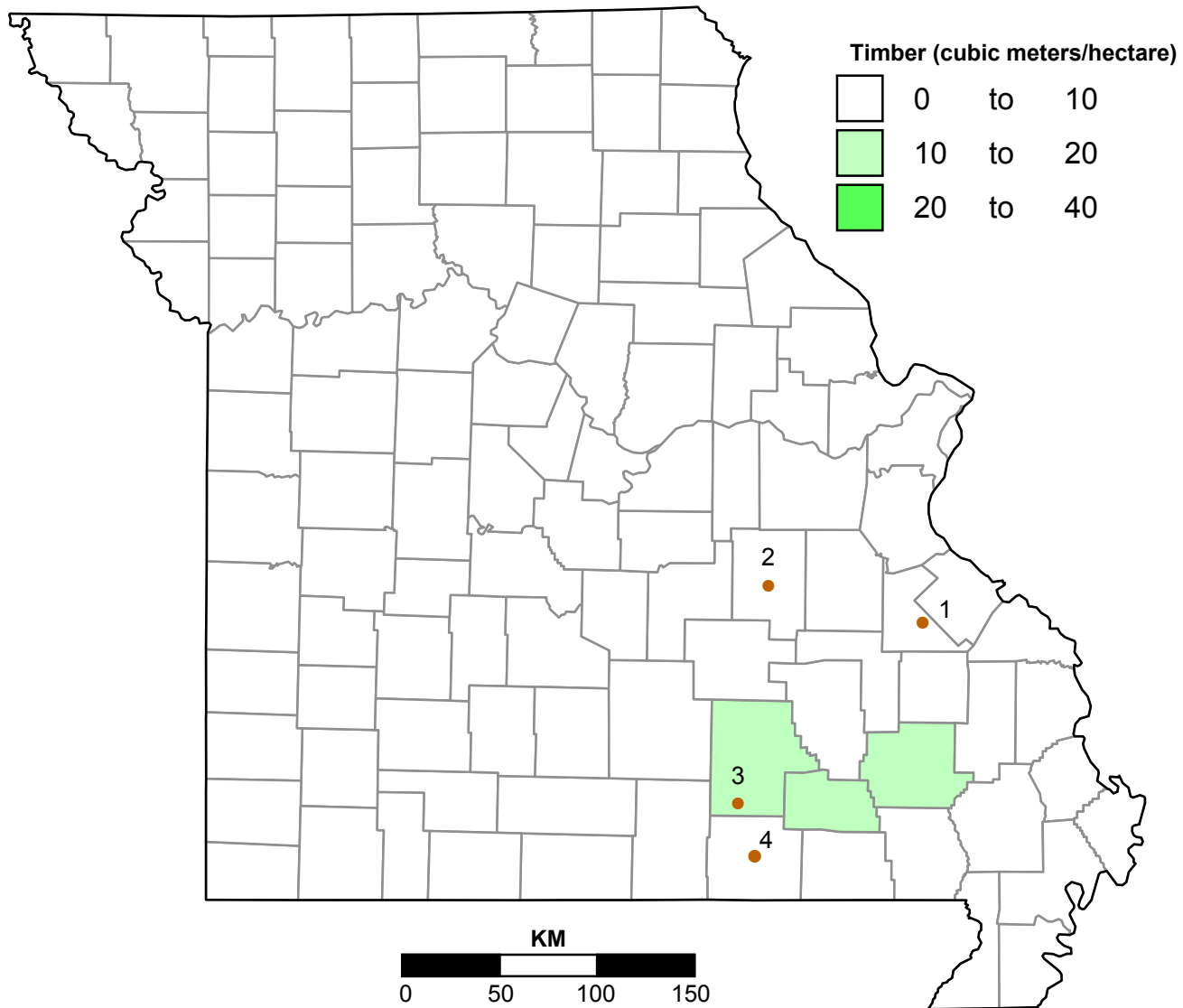
Mill I.D.	Name	Location	Capacity / Production (1,000 m³)						
			1997	1998	1999	2000	2001	2002	2003
24	Georgia-Pacific Corp	Roxie	236	236	248	248	248	248	248
1	Hankins Inc	Ripley	118	135	142	146	177	177	177
4	Hankins Lumber Co	Grenada	227	212	236	236	236	236	236
22	Hazlehurst Lumber Co	Hazlehurst	118	118	118	118	118	130	130
12	Hood Industries	Waynesboro	326	340	354	354	354	354	354
18	Joe N. Miles & Sons	Silver Creek	283	283	283	283	283	340	376
26	Mabry Lumber Co	Liberty	47	47	47	47	47	47	47
11	Mid South Lumber Co	Meridian	57	57	57	57	57	57	57
7	Packaging Corp	Ackerman	266	266	266	266	266	212	283
9	Shuqualak Lumber Co	Shuqualak	177	189	260	260	260	278	278
23	Southern Lumber Co	Hermanville	142	142	153	165	170	168	177
3	Weyerhaeuser Co	Bruce	448	460	505	517	517	517	517
29	Weyerhaeuser Co	Fernwood/Mt	460	460	460	514	514	514	514
Board Mills									
10	Weyerhaeuser Co	Philadelphia	413	425	498	514	514	514	514
15	King Lumber Co	Forest	47	71	71	71	71	71	73
Specialty or Unknown									
30	Three S Enterprises	McComb	44	44	44	44	44	84	101
8	Barge Forest Prod	Macon	50	47	50	52	52	52	61
17	Broadhead Lumber & Mfg	Mendenhall	12	12	12	12	12	12	12
6	Fisackerly Lumber Co	Winona	8	8	8	8	8	8	8
31	Foxworth & Thompson	Foxworth	9	9	9	9	9	9	9
5	Hankins Lumber Co	Winona	28	31	33	35	35	35	35
28	Magnolia Lumber Co	Fernwood	17	17	17	17	17	17	17
Softwood timber (1,000 m³ (1994 data)			1997	1998	1999	2000	2001	2002	2003
(g)	Growing stock	260861							
(f/g)	Drain to growing stock		0.067	0.065	0.067	0.065	0.064		
Typical sawtimber costs									
Pine (\$/m³)									
Standing			56	58	59	57	51	55	
Delivered			66	67	63	65	61	63	
source: Timber Mart South									

source: *Timber Mart South*

Missouri

Softwood Roundwood Inventory and Sawmill Capacity

Plant Capacity (Thous. Cub. Met.)



10

355

700

Missouri

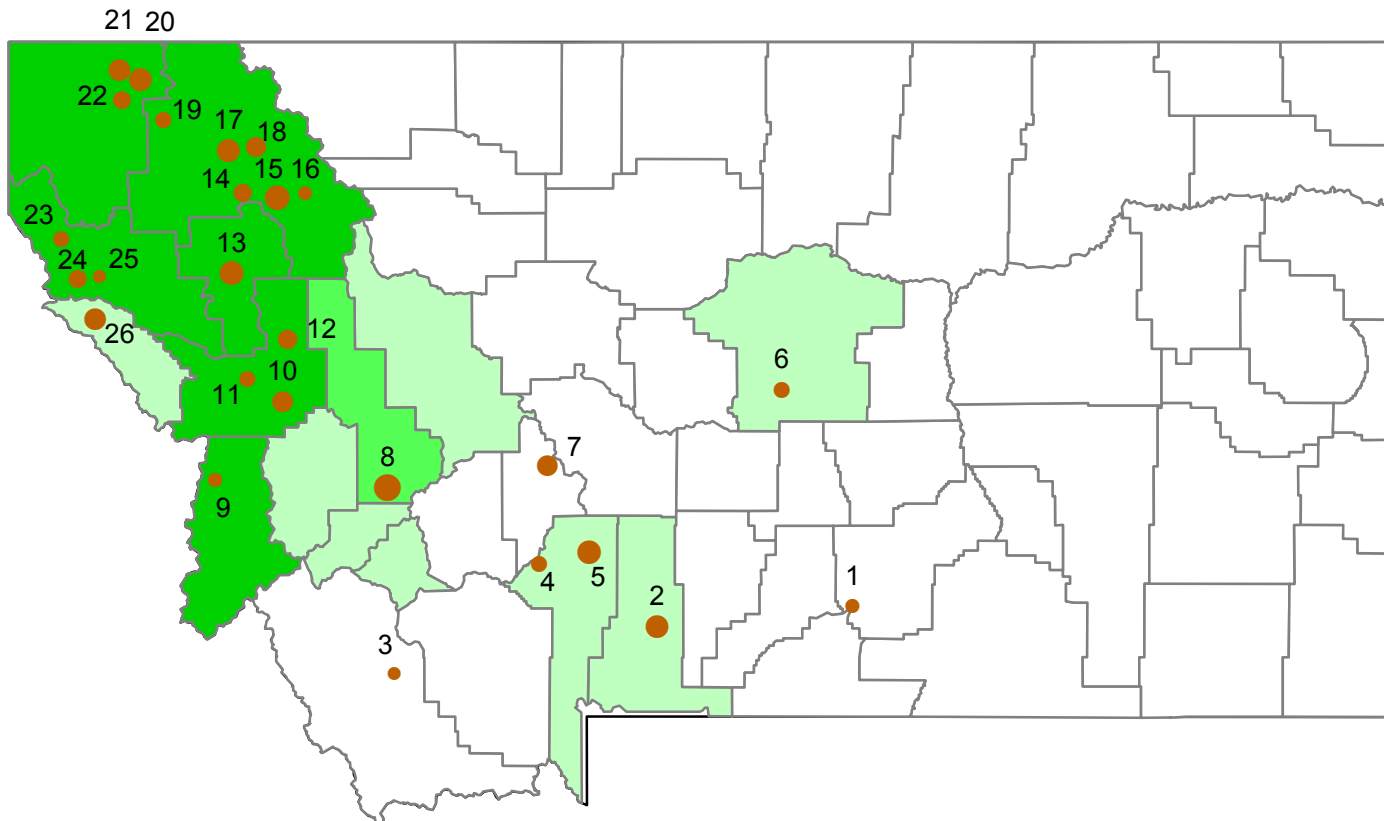
			Capacity / Production (1,000 m³)						
Mill									
I.D.	Name	Location	1997	1998	1999	2000	2001	2002	2003
			Specialty or Unknown						
3	Arneson Timber Co	Steelville	9	9	9	9	9	9	9
1	Botkin Lumber Co	Farmington	15	14	14	15	15	15	15
Softwood lumber (1,000 m³)			1997	1998	1999	2000	2001	2002	2003
	Number of sawmills		4	4	4	4	4	4	4
	Estimated capacity		60	59	59	60	60	60	60
(a)	Reported output (U.S. Census)		64	64	61	54	52		
	Implied capacity utilization		1.07	1.08	1.04	0.91	0.87		
	Softwood plywood								
	Estimated capacity								
(b)	Reported output (A.P.A.-Eng.Wd.Assoc.)								
	OSB								
	Estimated capacity								
(c)	Reported output (A.P.A.-Eng.Wd.Assoc.)								
(d)	Particleboard/MDF (Composite Panel Assoc)								
(e)	Softwd. pulpwood receipts(A.Pulpwd.A.)		260	260	261	262	263		
(f)	Approximate drain	(a+e)	324	324	322	316	315		

			Capacity / Production (1,000 m³)						
Mill									
I.D.	Name	Location	1997	1998	1999	2000	2001	2002	2003
2	Frost Sawmill	Birch Tree	6	6	6	6	6	6	6
4	Ledgerwood Lumber Co	Alton	30	30	30	30	30	30	30
Softwood timber (1,000 m³)			(2000 data)						
(g)	Growing stock	31848							
(f/g)	Drain to growing stock		0.010	0.010	0.010	0.010	0.010		
Typical sawtimber costs									
	Pine (\$/m³)								
	Standing		32	35	36	32	30	28	
	Delivered		47	51	45	54	46	49	
source: State of Missouri									

Montana

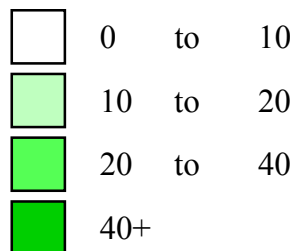
Softwood Roundwood Inventory and Sawmill Capacity

Plant Capacity (Thous. Cub. Met.)



KM
0 50 100 150

Timber (cubic meters/hectare)



10

355

700

Montana

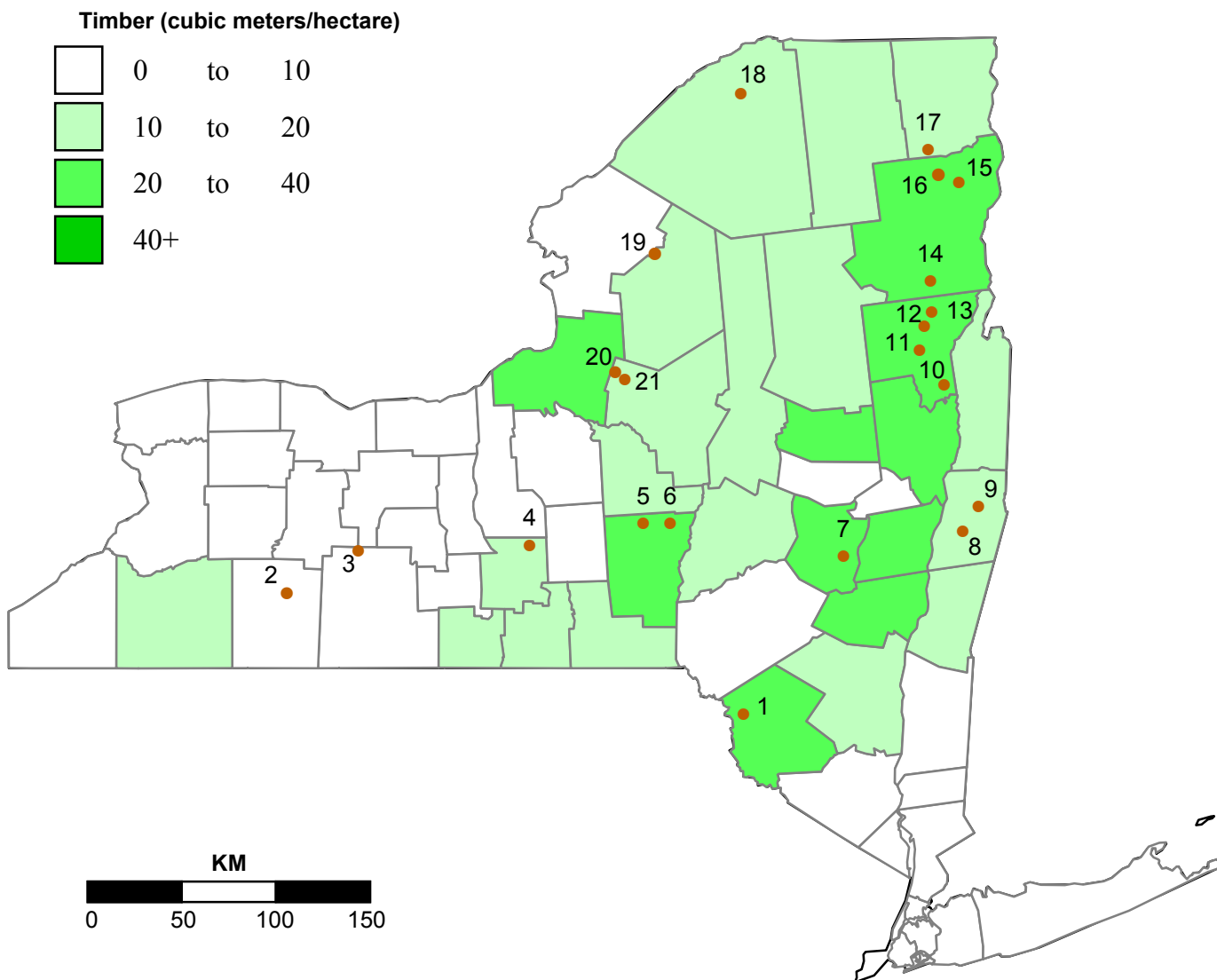
Mill I.D.	Name	Location	Capacity / Production (1,000 m³)						
			1997	1998	1999	2000	2001	2002	2003
			Closed Mills						
	Tri River Lumber Sales	Thompson Falls	5						
	Darby Lumber Co	Darby	71	71					
	American Stud Co	Olney	227	260	260	118			
	Lumber Products	Dillon	12	12	12	12			
	Tongue River Lumber Co	Ashland	71	71	71	71	71		
			Timber Mills						
16	Klinger Lumber Co	Kalispell	14	14	21	21	21	21	21
			Stud Mills						
11	Eagle Stud Mill	Missoula	54	54	54	54	54	54	54
5	Louisiana-Pacific Corp	Belgrade	212	212	212	212	212	212	212
8	Louisiana-Pacific Corp	Deer Lodge	236	236	236	290	295	330	330
21	Plum Creek Timber Co	Fortine	165	165	165	165	165	165	165
15	Plum Creek Timber Co	Kalispell/Evergr	236	236	236	236	236	236	236
2	R.Y. Timber	Livingston	189	189	189	189	189	189	189
7	R.Y. Timber	Townsend	142	142	142	142	142	142	142
10	Stimson Lumber Co	Bonner	260	260	283	283	142	142	142
			Dimension Mills						
18	F.H. Stoltze Land & Lumber C	Columbia Falls	113	113	123	125	132	132	132
	Softwood lumber (1,000 m³)		1997	1998	1999	2000	2001	2002	2003
	Number of sawmills		30	29	28	28	27	26	26
	Estimated capacity		3354	3412	3381	3278	3054	3072	3095
(a)	Reported output (U.S. Census)		3089	3212	3361	3162	2808		
	Implied capacity utilization		0.92	0.94	0.99	0.96	0.92		
	Softwood plywood								
	Estimated capacity		570	570	570	570	570		
(b)	Reported output (A.P.A.-Eng.Wd.Assoc.)		527	547	560	512	497		
	OSB								
(c)	Estimated capacity								
	Reported output (A.P.A.-Eng.Wd.Assoc.)								
(d)	Particleboard/MDF (Composite Panel Assoc)		495	500	591	591	591		
(e)	Softwd. pulpwood receipts(FPL estimate)		1472	1354	1392	1315	1293		
(f)	Approximate drain (1.45a+b+d+e)		6973	7058	7416	7004	6453		

Mill I.D.	Name	Location	Capacity / Production (1,000 m³)						
			1997	1998	1999	2000	2001	2002	2003
22	Lone Pine Timber Industries	Eureka	90	90	90	90	90	90	90
20	Owens and Hurst Lumber Co	Eureka	177	189	189	189	189	189	189
24	Thompson River Lumber	Thompson Falls	94	94	94	94	94	94	94
26	Tricon Timber	Saint Regis	142	153	153	153	153	165	165
4	D & G Lumber Co	Three Forks	59	59	59	59	59	59	59
			Board Mills						
17	Plum Creek Timber Co	Columbia Falls	189	189	189	189	189	189	189
13	Plum Creek Timber Co	Pablo	219	219	219	219	219	219	219
			Specialty or Unknown						
9	Blackfoot River Lumber Co	Victor	24	30	30	30	30	30	30
1	Cascade Timber	Laurel	30	30	30	30	30	30	30
6	Crowder Lumber Co	Lewistown	35	35	35	18	18	35	59
3	Lumber Products Inc	Dillon	12	12	12	12	12	12	12
19	North End Timber Prod	Olney					35	59	59
12	Pyramid Mountain Lumber	Seely Lake	118	118	118	118	118	118	118
14	Stillwater Forest Prod	Kalispell	94	94	94	94	94	94	94
23	Vinson Timber Prod	Trout Creek	57	57	57	57	57	57	57
25	Watters Lumber Co	Thompson Falls	9	9	9	9	9	9	9
	Softwood timber (1,000 m³)	(1992 data)	1997	1998	1999	2000	2001	2002	2003
(g)	Growing stock (ex NF)	257853							
(f/g)	Drain to growing stock		0.027	0.027	0.029	0.027	0.025		
	Typical sawtimber costs								
	Douglas fir (\$/m³)								
	Standing		na	na	na	na	na	na	na
	Delivered		68	63	70	69	63	64	

source: *University of Montana*

New York

Softwood Roundwood Inventory and Softwood Sawmill Capacity



New York

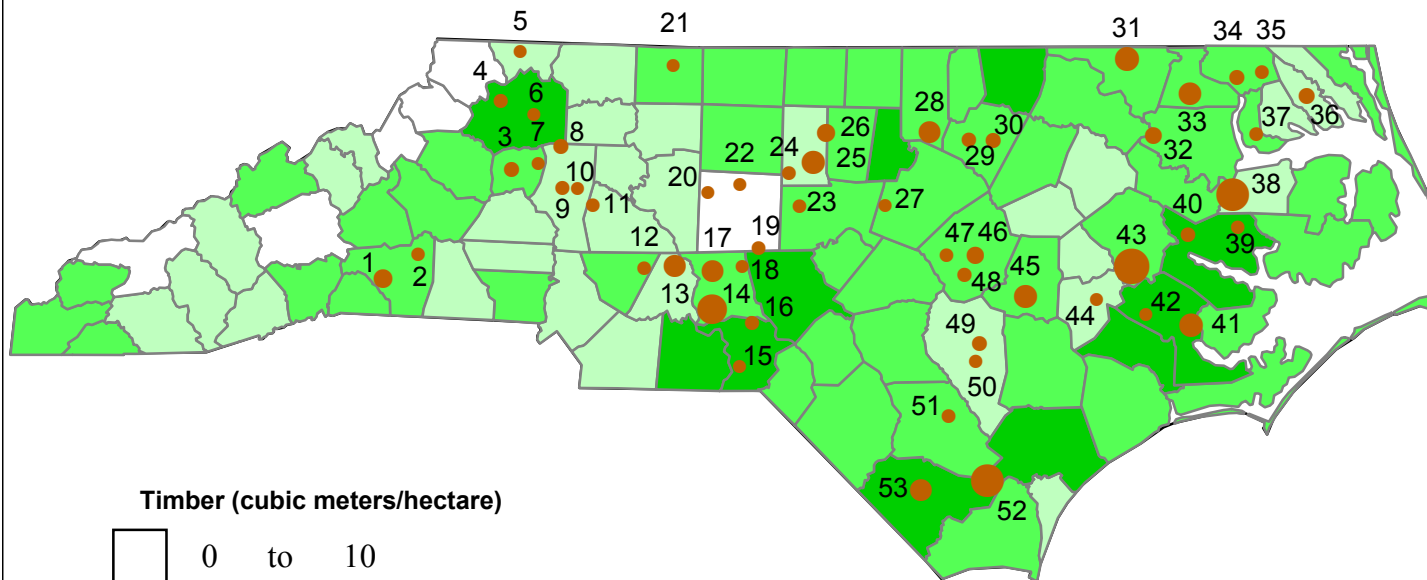
Mill			Capacity / Production (1,000 m³)						
I.D.	Name	Location	1997	1998	1999	2000	2001	2002	2003
White Pine Mills									
13	Brown & Son Lumber Co	Chestertown	7	7	7	7	7	7	7
12	Cooper Lumber, Inc	Chestertown	7	7	7	7	7	7	7
15	Cornwright Lumber Corp	Lewis	11	11	11	11	11	11	11
4	Cote Wood Products	Groton	12	12	12	12	12	12	12
14	Drake Lumber Corp	Schroon Lake	9	9	9	9	9	9	9
19	Johnson Lumber Co	Carthage	28	28	31	31	31	31	31
10	Mead Lumber	Queensbury	7	7	7	7	7	7	7
11	Richard Baker & Sons	Warrensburg	7	7	7	7	7	7	7
17	Wood Products Inc	Ausable Forks	9	9	9	9	9	9	9
Timber Mills									
2	Angelica Forest Products	Angelica	19	19	19	19	19	19	19
Softwood lumber (1,000 m³)			1997	1998	1999	2000	2001	2002	2003
Number of sawmills			21	21	21	21	21	21	21
Estimated capacity			227	227	229	234	234	234	234
(a)	Reported output (U.S. Census)		234	243	274	262	234		
Implied capacity utilization			103%	107%	120%	112%	100%		
Softwood plywood									
Estimated capacity									
(b)	Reported output (A.P.A.-Eng.Wd.Assoc.)								
OSB									
Estimated capacity									
(c)	Reported output (A.P.A.-Eng.Wd.Assoc.)								
(d)	Particleboard/MDF (Composite Panel Assoc)								
(e)	Softwd. pulpwood receipts(A.Pulpwd.A.)		893	861	825	921	376		
(f)	Approximate drain (a+e)		1126	1104	1098	1183	610		

Mill I.D.	Name	Location	Capacity / Production (1,000 m³)						
			1997	1998	1999	2000	2001	2002	2003
6	Lok-N-Logs	Sherburne	12	12	12	12	12	12	12
16	Ward Lumber Co	Jay	28	28	28	33	33	33	33
Dimension Mills									
1	Beechwood Lumber Co	Callicoon	5	5	5	5	5	5	5
18	Brothers Lumber	Norwood	7	7	7	7	7	7	7
5	Edmonds Lumber	Smyrna	7	7	7	7	7	7	7
3	Fleischman Farms	Atlanta	7	7	7	7	7	7	7
20	G.W. Platt & Sons	Westdale	18	18	18	18	18	18	18
8	L.J. Valente, Inc	Averill Park	5	5	5	5	5	5	5
9	Rynard G. Gundrum Lumber	Grafton	7	7	7	7	7	7	7
21	Spink Lumber	Camden	7	7	7	7	7	7	7
7	Urrey Lumber	Middleburgh	7	7	7	7	7	7	7
Softwood timber (1,000 m³) (1993 data)			1997	1998	1999	2000	2001	2002	2003
(g)	Growing stock	152886							
(f/g)	Drain to growing stock		0.007	0.007	0.007	0.008	0.004		
Typical sawtimber costs									
Standing (\$/m³)									
Red Pine			12	12	25	15	14	14	
White Pine			16	18	36	19	19	19	
source: State of New York									

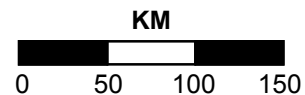
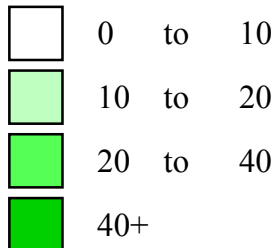
source: State of New York

North Carolina

Softwood Roundwood Inventory and Softwood Sawmill Capacity



Timber (cubic meters/hectare)



Plant Capacity (Thous. Cub. Met.)

10

355

700

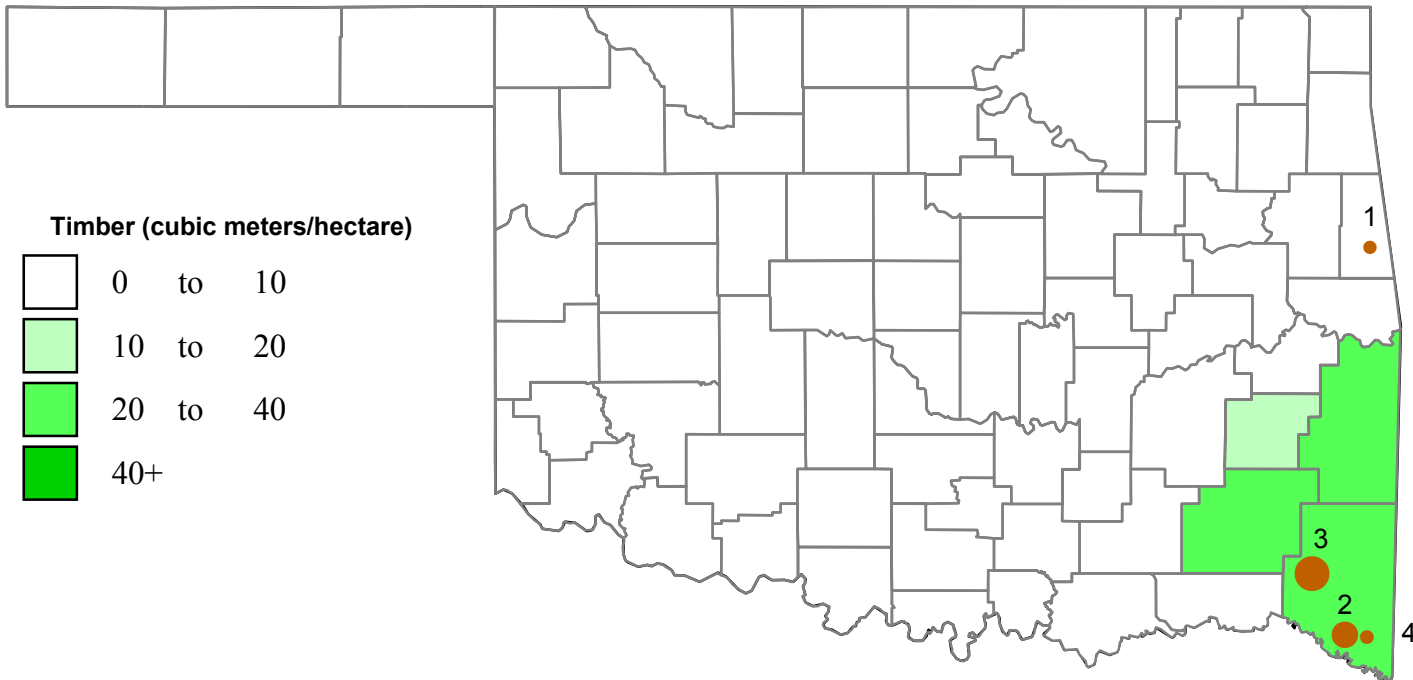
Mill I.D.	Name	Location	Capacity / Production (Thousand m³)						
			1997	1998	1999	2000	2001	2002	2003
			Closed Mills						
*	Edward Wood Prod	Liberty	32	32	32				
**	Seaford Lumber Co	Mocksville	11	11	11				
	Louisiana-Pacific Corp	Henderson	94	94	94	24			
	Waccamaw Lumber Co	Tabor City	24	24	24	6			
	Curtis Lumber Co	Mooresville	6	6	6	6			
	Coastal Lumber Co	New Bern	50	50	50	24			
	Bingham Lbr Co	Denton	24	24	24	24	24		
	C. G. Fox Lumber Co	Conover	17	17	17	17	17		
	Noonkester Lbr	Mount Airy	5	5	5	5	5		
	Roanoke Lumber Co	Scotland Neck	34	34	34	34	34	34	
			Timber Mills						
8	G & G Lumber Co	Union Grove	42	42	42	42	42	42	42
35	Hofler & Sons Lumber Co	Sunbury	24	24	24	24	24	24	24
			Dimension Mills						
24	Braxton Sawmill	Graham	24	24	24	24	24	24	24
32	Evans Lumber Co	Lewiston	59	59	59	59	59	71	71
33	Georgia-Pacific Corp	Ahoskie	184	184	184	184	184	184	184
28	Georgia-Pacific Corp	Creedmoor	168	168	168	168	168	168	168
45	Georgia-Pacific Corp	Dudley	201	198	198	198	198	198	198
53	Georgia-Pacific Corp	Whiteville	160	170	170	170	170	170	170
13	H. W. Culp Lumber Co	New London	177	177	177	177	177	177	177
52	International Paper Corp	Riegelwood	413	413	413	437	472	472	472
31	International Paper Corp	Seaboard	212	212	212	212	224	224	224
14	Jordan Lumber & Supply Co	Mount Gilead	307	340	340	342	354	378	378
40	Mason Lumber Co	Washington	33	34	35	35	35	35	38
26	Mebane Lumber Co	Mebane	59	73	73	73	73	78	97
25	New South	Graham	94	94	142	189	189	201	201
17	Troy Lumber Co	Troy	153	153	153	165	165	163	170
43	Weyerhaeuser Co	Ayden/Greenville	378	484	517	531	566	566	566
41	Weyerhaeuser Co	New Bern	179	201	201	201	212	212	212
38	Weyerhaeuser Co	Plymouth	250	271	411	413	472	472	472
			Board Mills						
50	F. L. Turlington Lbr Co	Clinton	13	13	13	13	13	13	13
	Softwood lumber (1,000 m³)		1997	1998	1999	2000	2001	2002	2003
	Number of sawmills		63	63	63	61	57	54	53
	Estimated capacity		4186	4398	4645	4588	4717	4770	4778
(a)	Reported output (U.S. Census)		4132	4031	4135	3693	4130		
	Implied capacity utilization		0.89	0.88	0.88	0.77	0.86		
	Softwood plywood								
	Estimated capacity		773	694	620	575	575		
(b)	Reported output (A.P.A.-Eng.Wd.Assoc.)		725	677	636	650	612		
	OSB								
	Estimated capacity		791	796	796	813	813		
(c)	Reported output (A.P.A.-Eng.Wd.Assoc.)		831	742	741	797	761		
(d)	Particleboard/MDF (Composite Panel Assoc)		607	628	501	550	550		
(e)	Softwd. pulpwood receipts(A.Pulpwd.A.)		6274	6103	6292	6276	6048		
(f)	Approximate drain	(a+b+1.6c+d+e)	13067	12625	12749	12444	12557		
*	Note: Switched to all hardwoods		**	Note: Switched to planing and treating only					

	Softwood timber (1,000 m³ (1992 data)	1997	1998	1999	2000	2001	2002	2003
(g)	Growing stock 354966							
(f/g)	Drain to growing stock	0.037	0.036	0.036	0.035	0.035		
	<u>Typical sawtimber costs</u>							
	Pine (\$/m³)							
	Standing	34	39	43	46	45	45	
	Delivered	50	54	51	58	54	57	
source:	Timber Mart South							

Oklahoma

Softwood Roundwood Inventory and Softwood Sawmill Capacity

Plant Capacity (Thous. Cub. Met.)



10

355

700

Oklahoma

Mill I.D.	Name	Location	Capacity / Production (1,000 m³)						
			1997	1998	1999	2000	2001	2002	2003
			Dimension Mills						
2	Bibler Brothers	Idabel	271	276	283	283	283	283	283
3	Weyerhaeuser Co	Wright City	477	477	531	543	543	543	543
			1997	1998	1999	2000	2001	2002	2003
	Softwood lumber (1,000 m³)								
	Number of sawmills		4	4	4	4	4	4	4
(a)	Estimated capacity		787	792	853	865	888	894	896
	Reported output (U.S. Census)		na	na	na	na	na		
	Implied capacity utilization								
	Softwood plywood								
(b)	Estimated capacity		146	146	146	150	150		
	Reported output (A.P.A.-Eng.Wd.Assoc.)		na	na	na	na	na		
	OSB								
	Estimated capacity								
(c)	Reported output (A.P.A.-Eng.Wd.Assoc.)								
(d)	Particleboard/MDF (Composite Panel Assoc		110	110	110	110	110		
(e)	Softwd. pulpwood receipts(A.Pulpwd.A.)		581	554	522	493	416		
(f)	Approximate drain (a+b+d+e)		1624	1601	1631	1618	1565		

Mill I.D.	Name	Location	Capacity / Production (1,000 m³)						
			1997	1998	1999	2000	2001	2002	2003
4	Wood Lumber Co	Idabel	24	24	24	24	47	52	54
1	Conner Industries	Stilwell	15	15	15	15	15	15	15
Specialty or Unknown									
(g)	Softwood timber (1,000 m³)	(1993 data)	1997	1998	1999	2000	2001	2002	2003
	Growing stock	39513							
(f/g)	Drain to growing stock		0.041	0.041	0.041	0.041	0.040		
Typical sawtimber costs									
Pine (\$/m³)									
	Standing		na	na	na	na	na		
	Delivered		na	na	na	na	na		

Ontario

Softwood Sawmill Capacity

Plant Capacity (Thous. Cub. Met.)



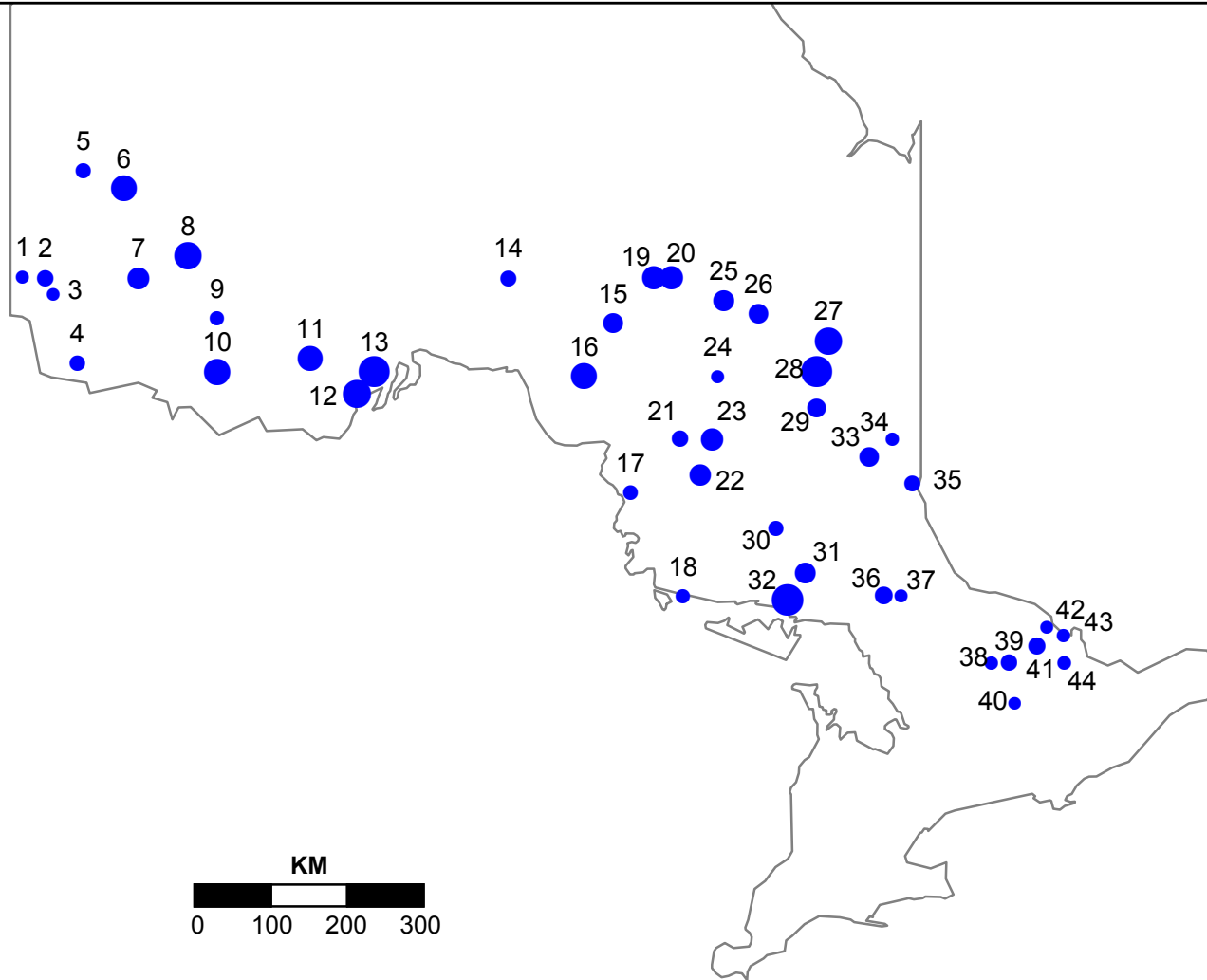
10



355



700



KM
0 100 200 300

Ontario

Mill			Capacity / Production (1,000 m³)						
I.D.	Name	Location	1997	1998	1999	2000	2001	2002	2003
Closed Mills									
	A&L Lafreniere	Chapleau	66	66	66	66	66		
	Domtar	Sault Ste. Mar	94	94	94	94	94	94	
	Tembec	Kirkland Lake	125	125	125	125	125	125	
	Tembec	Mattawa	83	83	83	83	83	83	
Timber Mills									
37	Isidore Roy Ltd	Sturgeon Falls	25	25	25	25	25	25	25
44	Laverne Heidemann & Sor	Eganville	19	38	38	35	35	35	35
Stud Mills									
8	Buchanan Lum/McKenzie	Hudson	354	354	354	354	354	354	354
31	Gogama For Prod Ltd	Levack	92	123	142	142	153	165	172
2	Kenora Forest Prod	Kenora	35	83	83	83	83	83	83
27	Tembec	Cochrane	224	224	224	236	307	319	319
26	Tembec	Kapuskasing	142	142	142	142	212	236	236
7	Weyerhaeuser	Dryden	130	165	165	179	196	196	196
Dimension Mills									
10	Buchanan Lum	Atikokan	283	319	319	319	319	319	319
11	Buchanan Lum/Dubreuil F	Dubreuilville	283	283	283	283	283	283	283
13	Buchanan Lum/Great Wes	Thunder Bay	472	472	472	472	472	472	472
14	Buchanan Lum/Longlac FF	Longlac	71	71	71	71	71	71	71
12	Buchanan Lum/N Sawmills	Thunder Bay	378	378	378	378	378	378	378
22	Domtar	Chapleau	170	170	170	184	184	184	184
33	Domtar	Elk Lake	142	142	142	142	142	142	142
32	Domtar	Nairn Center	448	496	496	496	496	496	496
29	Domtar	Timmins	116	116	130	130	130	130	130
16	Domtar	White River	295	295	295	307	307	307	307
19	Lecours Lumber Co	Calstock	236	236	236	236	236	236	236

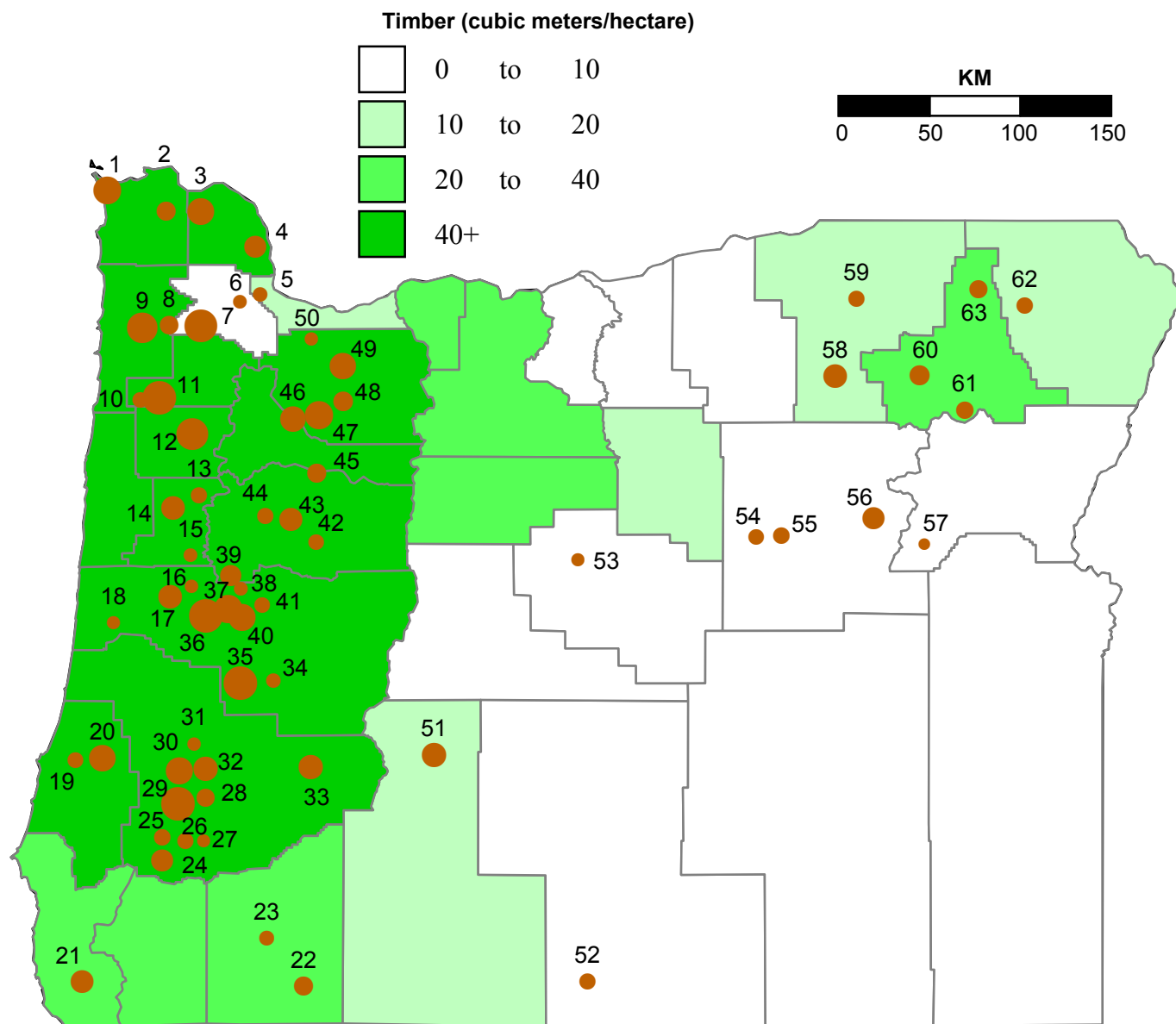
Softwood lumber (1,000 m³)			1997	1998	1999	2000	2001	2002	2003
Number of sawmills			48	48	48	48	48	47	44
Estimated capacity			6291	6753	6892	6961	7124	7164	6904
Reported output (Stat. Can.)			6681	6320	6692	6817	7268		
Implied capacity utilization			1.06	0.94	0.97	0.98	1.02		
Softwood Roundwood Removals									
(a)	Logs and Bolts		14141	13747	13978	15288			
(b)	Pulpwood		4844	4056	4347	5120			
(c)	Miscellaneous		15	12	18	17			

Mill I.D.	Name	Location	Capacity / Production (1,000 m³)					
			1997	1998	1999	2000	2001	2002
35	Liskeard Lumber Ltd	New Liskeard	100	71	71	71	71	71
15	Olav Haaavaldsrud Timber C	Hornepayne	118	118	142	153	153	153
20	Tembec	Hearst	236	236	236	236	248	295
25	Tembec	Opasatika	177	177	177	177	177	189
28	Tembec	Timmins	319	378	378	378	342	342
23	Weyerhaeuser	Chapleau	130	94	177	184	201	212
6	Weyerhaeuser	Ear Falls	83	304	304	304	304	304
Board Mills								
43	Algonquin Lumber	Pembroke	30	30	30	30	30	30
36	Goulard Lumber (1971) Ltd	Sturgeon Falls	106	106	106	106	106	106
30	Herb Shaw & Son	Petawawa	21	21	21	21	21	21
18	Midway Lumber Mills	Thessalon	74	42	42	42	42	42
39	Murray Brothers Lumber Co	Madawaska	52	83	83	83	83	83
Specialty or Unknown								
41	Ben Hokum & Son	Killaloe	94	94	94	94	94	94
9	Bowater	Ignace	15	45	45	45	45	45
24	C A Spencer	Lochiel	24	24	24	24	24	24
34	Cheminis Lumber	Larder Lake	26	26	26	26	26	26
3	Devlin Timber Co	Kenora	19	19	19	19	19	19
40	Freymond Lumber Ltd	Bancroft	17	17	17	17	17	17
42	H&R Chartrand	Noelville	59	59	59	59	59	59
5	LKGH Contracting Ltd	Red Lake	59	59	59	59	59	59
4	Manitou Lumber Co	Emo	64	64	64	64	64	64
38	McRae Mills Ltd	Whitney	31	31	31	31	31	31
21	Pineal Lake Lumber	Chapleau	83	83	83	83	83	83
17	Tembec	Alban	53	53	53	53	53	53
1	Trilake Timber Co	Keewatin	21	24	24	24	24	24

Softwood timber (1,000 m³) (1991 data)			1997	1998	1999	2000	2001	2002	2003
(d)	Mature growing stock	1660000							
(e)	Annual private & provincial allowable cut		na	na	na	na			
(f)	Total removals	(a+b+c)	19000	17815	18343	20425			
	Drain to growing stock	(f/d)	0.011	0.011	0.011	0.012			
Typical timber costs (US\$/m³)									
	Delivered		na	na	na	na			

Oregon

Softwood Roundwood Inventory and Softwood Sawmill Capacity



Plant Capacity (Thous. Cub. Met.)

10

355

700

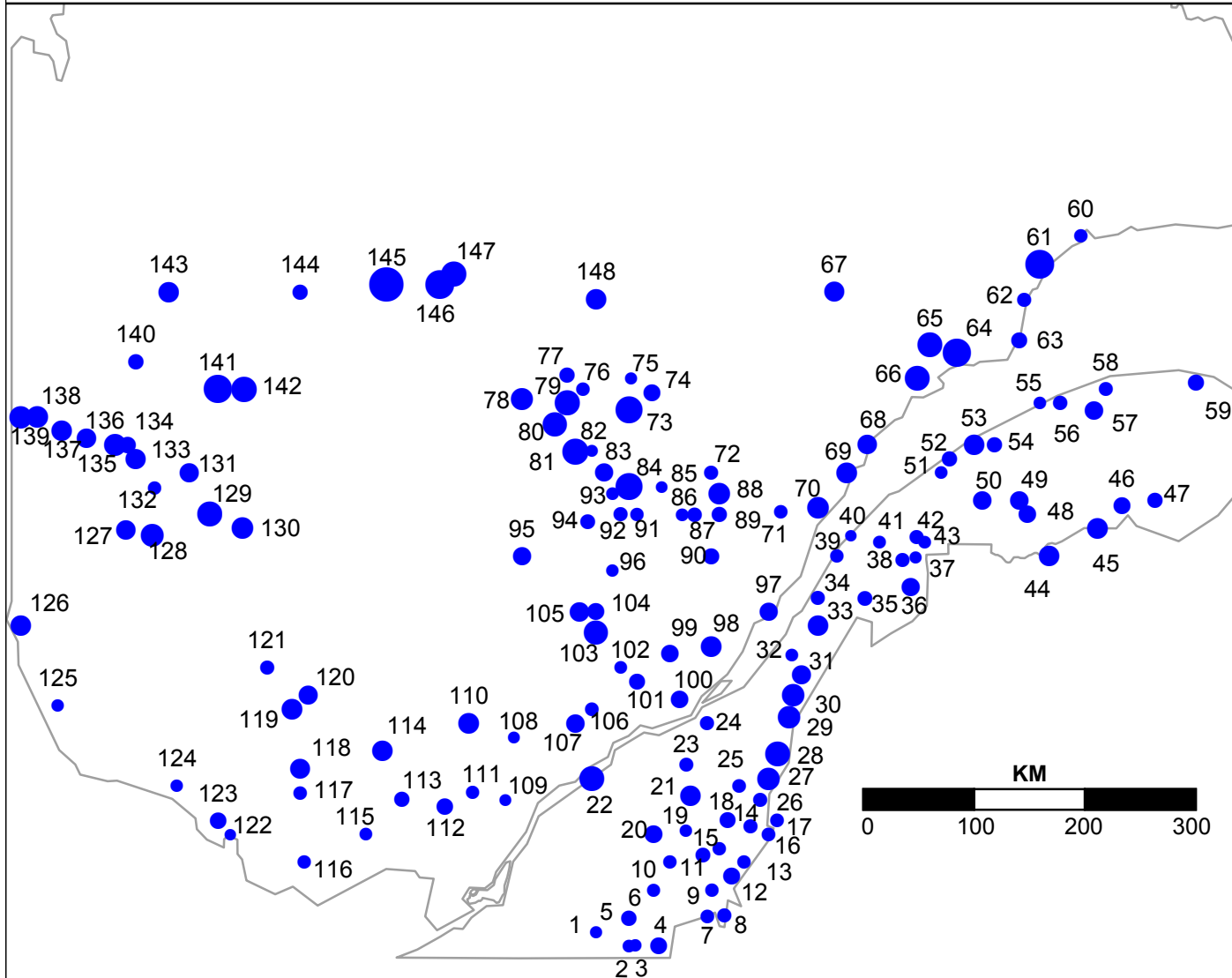
Mill I.D.	Name	Location	Capacity / Production (1,000 m³)						
			1997	1998	1999	2000	2001	2002	2003
			Closed Mills						
	TreeSource/Philomath FP	Philomath	257						
	TreeSource/Pac. Softwds	Philomath	146						
	Weyerhaeuser Co	Coos bay	236	189					
	Spalding & Sons	Grants Pass	120	120					
	Boise Cascade	Medford	47	47					
	Eugene F Burrill Lum Co	White City	177	142					
	Vanport Manufact	Boring	142	142	142				
	Frontier/Kinzua	Heppner	133	133	35				
	QVL/Young&Morgan	Mill City/Lyons	139	139	139	139			
	QVL/Hanel	Hood River	130	151	212	212			
	Roseburg	Dillard #1/Win	224	271	271	236			
	P&M Cedar	Roseburg	47	47	47	47			
	TreeSource	Central Pt.	113	137	139	142	24		
	Crown Pacific	Prineville	130	130	156	170	170		
	Ochoco Lumber Co	Prineville	92	118	118	118	59		
	Warm Springs F P	Warm Springs	153	196	196	196	196		
	Joseph Timber Co	Joseph	59	59	59	59	59		
	Floragon	Molalla	71	71	71	71	71		
	Pacific Wood Preserving	Sheridan	201	201	201	201	201		
	Rough&Ready	Cave Junction	149	149	149	149	149	149	
			Timber Mills						
5	Alder Creek Lum Co	Portland	58	58	71	71	71	71	71
6	Allen For Prod	North Plains	12	57	57	57	57	57	57
50	Arrowhead Timber Co	Carver	53	53	53	53	53	53	53
59	Blue Mtn	Pendleton	83	92	106	106	106	106	106
63	Boise Cascade	Elgin	208	208	106	106	142	153	153
			Stud Mills						
60	Boise Cascade	LaGrande	175	175	189	189	201	201	201
23	Boise Cascade	White City	80	80	94	94	83	83	83
57	Burnt River Lum Co	Unity	19	19	19	19	19	19	19
25	C and D Lumber Co	Riddle	106	106	106	113	113	113	113
53	Consolidated Pine	Prineville	47	47	47	47	47	47	47
22	Croman	Ashland	177	177	177	177	177	177	177
51	Crown Pacific	Gilchrist	267	283	293	295	330	330	330
18	Davidson Industries	Mapleton	24	40	40	42	47	47	47
30	Douglas Co For Prod	Winchester	283	283	378	425	425	425	425
28	DR Johnson Lumber Co	Dillard	148	148	148	148	148	153	153
55	DR Johnson Lumber Co	John Day	118	118	118	118	118	118	118
61	DR Johnson Lumber Co	North Powder	137	137	137	137	0	59	137
56	DR Johnson Lumber Co	Prairie City	212	212	212	264	264	264	264
26	DR Johnson Lumber Co	Riddle	53	106	106	106	106	106	106
62	DR Johnson Lumber Co	Wallowa	94	113	113	113	113	113	113
			Dimension Mills						
46	Floragon	Molalla	189	189	189	189	189	189	189
	Softwood lumber (1,000 m³)		1997	1998	1999	2000	2001	2002	2003
	Number of sawmills		82	80	77	75	70	64	63
	Estimated capacity		14064	14695	15316	16265	16046	15596	15974
(a)	Reported output (WWPA)		13190	12947	14292	13988	14292		
	Implied capacity utilization		0.94	0.88	0.93	0.86	0.89		
	Softwood plywood								
	Estimated capacity		3935	3475	3497	3242	3175		
(b)	Reported output (A.P.A.-Eng.Wd.Assoc.)		3072	3090	3106	3271	2963		
(c)	Particleboard/MDF (Composite Panel Assoc		2814	2835	2919	3000	3000		
(d)	Log exports ((CS-Longview) U.S. Census)		560						

Mill I.D.	Name	Location	Capacity / Production (1,000 m³)						
			1997	1998	1999	2000	2001	2002	2003
48	Floragon	Molalla	352	352	352	352	378	378	378
45	Frank Lumber Co	Mill City	177	177	177	177	177	177	177
52	Fremont	Lakeview	106	106	106	106	106	106	106
4	Friesen Lumber Co	St. Helens	238	248	260	260	260	260	260
58	Frontier	Pilot Rock	94	94	142	153	312	312	312
20	Georgia-Pacific Corp	Coos Bay	271	401	408	408	408	408	408
14	Georgia-Pacific Corp	Philomath	236	264	295	295	307	307	307
10	Hampton Affiliates	Grand Ronde	94	94	94	94	94	94	94
9	Hampton Affiliates	Tillamook	474	479	496	519	519	566	566
11	Hampton Affiliates	Willamina	590	590	708	767	850	850	850
27	Herbert Lumber Co	Riddle	42	42	45	45	45	45	45
15	Hull-Oakes	Monroe	54	54	54	54	54	54	54
31	Keller Lumber Co	Roseburg	52	52	52	52	52	52	52
13	Mary's River Lumber Co	Corvallis	106	106	106	106	106	106	106
54	Ochoco Lumber Co	John Day	80	94	94	94	94	94	94
40	Rosboro	Springfield	130	130	130	195	195	195	236
39	Rosboro	Springfield	283	283	283	266	266	266	425
29	Roseburg	Dillard stud	118	130	130	401	472	496	708
49	RSG For Prod	Estacada	142	330	378	378	401	401	401
3	RSG For Prod	Mist	212	330	401	401	401	413	413
47	RSG For Prod	Molalla	366	389	437	437	472	472	472
36	Seneca sawmill	Eugene	557	590	661	838	873	873	873
21	South Coast Lumber	Brookings	236	283	283	283	283	283	283
19	Southport For Prod	Coos Bay			71	99	99	99	99
34	Starfire Lumber	Cottage Grove	59	71	71	71	71	71	71
2	Stimson Lumber Co	Clatskanie	165	165	165	165	165	177	177
7	Stimson Lumber Co	Forest Grove	519	519	519	661	661	661	661
41	Sundance	Springfield	71	71	83	94	94	94	94
24	Superior Lumber Co	Glendale	198	208	236	236	248	260	260
			Cedar Mills						
17	Swanson-Superior	Noti	189	201	236	283	307	307	307
16	Swanson Bros	Noti	47	52	52	52	52	52	52
			Board Mills						
32	Swanson Bros	Roseburg	177	177	283	307	330	330	330
33	TreeSource	Glide	212	248	330	307	307	330	330
8	TreeSource	Tillamook	120	111	156	156	156	165	165
42	Triple T Studs	Cascadia	71	83	94	94	94	94	94
43	Weyerhaeuser Co	Bauman	236	264	283	293	295	295	295
35	Weyerhaeuser Co	Cottage Grove	590	661	743	755	779	791	791
			Specialty or Unknown						
12	Weyerhaeuser Co	Dallas	281	281	330	401	500	531	566
37	Weyerhaeuser Co	Eugene/coburn	307	321	354	444	460	479	479
44	Weyerhaeuser Co	Lebanon	83	83	106	106	106	106	106
1	Weyerhaeuser Co	Warrenton	359	359	359	392	401	453	453
38	Zip-O-Log Mills	Eugene	59	59	59	59	59	59	59
			Softwood timber (1,000 m³) (1999 data)						
(h)	Growing stock (excl. FS & B	560000	1997	1998	1999	2000	2001	2002	

Quebec

Softwood Sawmill Capacity

Plant Capacity (Thous. Cub. Met.)



10

355

700

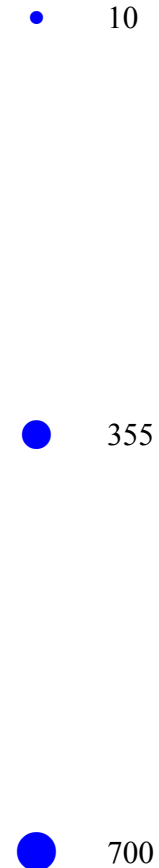
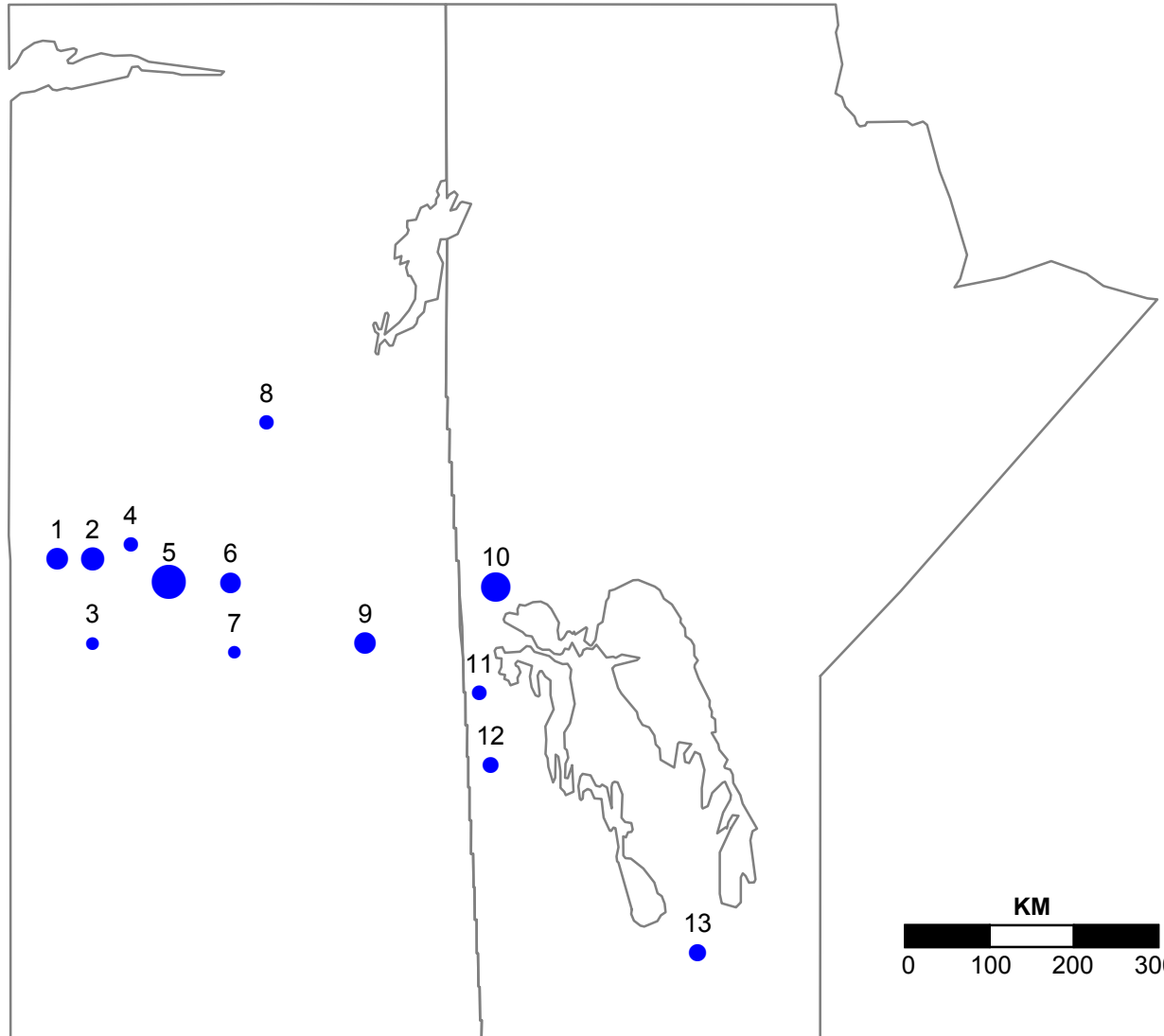
Quebec

Capacity / Production (1,000 m³)										Capacity / Production (1,000 m³)										Capacity / Production (1,000 m³)										
I.D.	Name	Location	1997	1998	1999	2000	2001	2002	2003	I.D.	Name	Location	1997	1998	1999	2000	2001	2002	2003	I.D.	Name	Location	1997	1998	1999	2000	2001	2002	2003	
115	Bois Omega	Lac Supérieur	38	35	35	35	35	35	35	64	Abitibi Consolidated	Baie Comeau/F	363	401	425	448	448	448	448	126	Tembec	Bearn	194	198	201	201	236	260	260	
124	La Co Commonwealth	Rapides des Jo	26	26	26	26	26	26	26	147	Abitibi Consolidated	Roberval	260	307	307	307	330	378	401	46	Temrex	St-Alphonse-de	106	106	113	116	142	165	165	
125	La Co Commonwealth	Rivière-Kipawa	28	28	28	28	28	28	28	103	Abitibi Consolidated	Chibougamou	283	283	330	330	330	330	342	137	Temrex	Nouvelle-Ouest	177	177	201	201	201	201	201	
26	Rene Bernard	Beauceville-Ou	59	59	59	59	59	59	59	88	Abitibi Consolidated	La Tuque	236	283	307	307	307	307	307	114	Uniforet Sc Pate	(Perit L'Ascension	201	201	201	201	201	201	201	
123	Tembec	Mansfield et Po	106	106	106	106	106	106	106	80	Abitibi Consolidated	St Fulgence	189	189	212	212	236	236	236	61	Uniforet Sc Pate	(Port Port Cartier	236	472	472	472	472	472	472	
Timber Mills										Cedar Mills										Board Mills										
2	Beaubois Coaticook	Coaticook	35	35	35	35	35	35	35	70	Assoc Coop Forst de	SSI Elzeaz	71	71	83	83	83	83	83	43	Multi Cedres	Esprit-St	35	35	35	35	35	35	35	
85	La Sc Martel	Alma	14	14	14	14	14	14	14	50	Boisaco	Sacre-Coeur	153	153	224	236	236	236	236	117	Sc Ced-Or Inc	Maniwaki	50	50	50	50	50	50	50	
Stud Mills										Specialty or Unknown																				
130	Abitibi Consolidated	Senneterre	165	177	227	227	236	236	236	53	Bowater	Price	142	201	201	201	201	201	201	201	12	Usine Sartigan	St Honore	52	54	118	118	118	118	118
97	Abitibi Consolidated	St Hilarion	66	71	116	116	118	130	142	73	Bowater	St Felicien	378	378	378	378	378	378	378	71	Abitibi Consolidated	Petit Saguenay	50	50	50	50	50	50	50	
83	Abitibi Consolidated	St Prime	78	78	78	78	78	78	78	118	Bowater	Maniwaki	170	170	175	186	186	186	186	11	AD Bernier	Lambton	71	71	71	71	71	71	71	
78	Abitibi Consolidated	St Thomas Didy	231	241	250	250	250	250	250	36	Bowater	Degelis	142	142	142	142	142	142	47	24	Alexandre Cote	Scott-Junction	59	59	59	59	59	59	59	
65	Abitibi Consolidated	Baie Comeau/P	260	307	307	307	330	330	330	77	Bowater	Girardville	71	71	71	71	83	83	83	3	Armand Duhamel & Fil	St-Ignace-de-St	30	30	30	30	30	30	30	
142	Abitibi Consolidated	Lebel sur Quevi	319	342	342	342	354	354	354	18	Busque & Laflamme In	St Benoit Labre	94	94	94	94	94	94	94	6	Blanchette & Blanchett	St Gerard	40	40	40	40	40	40	40	
131	Abitibi Consolidated	Champneuf	166	166	166	166	166	166	166	29	Canfor	St Just de Brete	248	248	260	260	260	330	354	32	Bois de sc Lafontaine	Ste-Perpetue	35	35	35	35	35	35	35	
145	Barette Chapais	Chapais	519	673	708	708	708	708	708	13	Carrier & Begin	St Honore	47	47	47	47	47	47	47	72	Bois Valin	St Fulgence	59	59	59	59	59	59	59	
42	Bowater	Lac des Aigles	35	47	47	47	59	59	24	15	Clermond Hamel	St Ephrem de E	47	47	47	47	47	47	47	63	Bowater	Baie Trinite	83	83	83	83	94	94	94	
87	Coop For LaTerriere	Laterriere	57	57	68	68	68	68	68	38	Denisso Lebel	St Michel du Sc	59	59	59	59	59	59	59	59	113	Claude Forget	St Jovite	80	80	80	80	80	80	80
99	Daishowa	St Emile	106	127	127	130	130	130	130	34	Denisso Lebel	St Josef de Kar	59	59	59	59	59	59	59	59	100	Co Papiers Stadacona	Quebec	127	127	127	127	127	127	127
119	Domtar	Grand Remous	212	212	212	212	212	212	212	98	Domtar	St Aurelie	142	189	212	212	212	212	212	106	Coop des Travailleurs	St Tite	52	52	52	52	52	52	52	
141	Domtar	Lebel sur Quevi	425	425	425	448	448	448	448	144	Domtar	Wasnawipi	0	28	76	83	83	83	83	56	Denisse Lebel	Cap Chat	40	66	66	66	66	66	66	
128	Domtar	Val D'Or	212	224	236	260	271	271	271	143	Domtar	Matagami	156	156	201	201	201	201	201	201	91	E. Tremblay & Fils	St Bruno/Alma	28	28	28	28	28	28	28
127	Domtar	Malaric	153	153	153	153	177	177	177	20	Domtar	Ste Marie	118	130	130	137	137	137	137	51	Felix Huard	Luceville	35	35	35	35	35	35	35	
59	GDS Bois Granval	Grand Vallee	98	98	98	98	98	98	98	27	Francois Giguere	Ste Aurelie	189	236	260	260	260	260	260	41	Fernand Bois	Lac de Aigles	38	38	38	38	38	38	38	
57	GDS Bois Marsoui	Marsoui	153	153	153	153	153	153	153	102	Gerard Crete & Fils	St-Roch-de-Mel	153	153	153	153	153	153	153	39	GDS Pabaced	St Eusebe	47	47	47	47	47	47	47	
44	GDS Industries	Pointe-à-la-Croix	201	201	201	201	201	201	201	21	Gerard Crete & Fils	St Severin/Prou	201	201	201	201	201	201	201	95	Gerard Crete & Fils	Riviere Windigo	142	142	142	142	142	142	142	
104	Gerard Crete & Fils	La Tuque	83	117	118	118	118	118	118	102	Gerard Crete & Fils	Notre-Dame-de	35	35	35	35	35	35	35	14	Industries Paquet	St Theophile	52	52	59	59	59	59	59	
48	Groupe Cedrico	Causpascal	106	106	127	127	127	127	127	101	Gestofor	St Raymond	71	76	76	94	94	94	94	25	Ireneee Grondin & Fils	St Zacharie	47	47	47	47	47	47	47	
58	Groupe Cedrico	La Martre	54	54	54	54	54	54	54	121	Henri Rademacher et F	Ste-Veronique	47	45	59	59	59	59	59	17	J G Allen Industries	St Zacharie	52	52	52	52	52	52	52	
50	Groupe Cedrico	Ste Florence	94	153	153	153	153	153	153	4	J A Fontaine & Fils	St Augustine de	104	104	113	113	113	113	113	90	Leggett & Platt	Berniers/St Nicr	99	99	99	99	99	99	99	
54	Groupe Cedrico	Price	47	42	80	80	80	80	80	33	J D Irving	Pohenegamook	201	201	201	201	201	201	201	201	116	Les Ent Atlas (1985)	Low	47	47	47	47	47	47	47
49	Groupe Cedrico	Lac du Saumon	130	130	153	153	153	153	153	111	Jean Riopel	St-Theodore-de	35	35	42	44	44	44	44	8	Les Manufacturiers Wa	St-Augustin-de-	42	47	47	47	47	47	47	
31	Industries Maibec	St-Pamphile	165	165	165	165	165	165	165	69	Kruger	St Paul du Norc	177	177	212	212	212	212	212	10	Les Prod For Liniere	St-Côme-Linièr	47	47	47	47	47	47	47	
68	Kruger	Forestville	76	83	165	165	165	165	165	136	Kruger	Launay	153	159	165	177	177	177	177	9	Megabois (1989)	Lac Megantic	47	47	47	47	47	47	47	
146	Les Chantiers de Chibougamou	Chibougamou	389	413	425	472	472	472	472	66	Kruger	Ragueneau	118	212	236	319	330	330	330	7	Multibois	St Augustine de	52	52	52	52	52	52	52	
40	Les Prod For Dube	L'Isle-Verte	12	12	12	12	12	12	12	22	Kruger	Trois Rivières	224	236	283	307	330	330	330	1	Paul Vallee Lumber Co	Clifton Partie es	25	25	25	25	25	25	25	
94	Louisiana-Pacific Corp	Lac Bouchette	71	71	71	71	71	71	71	91	La Sc du Lac St Jean	Metabecheouan	35	50	40	45	45	45	45	67	Prod For Labrieville	Lac au Brochet	177	189	189	189	189	189	189	
110	Louisiana-Pacific Corp	St Michel de St	165	189	212	212	212	212	212	92	Les Industries Piekoug	Mashteviatsh	47	54	57	59	59	59	59	122	Prod For Coulonge	Fort Coulonge	12	12	12	12	12	12	12	
52	Lulumbo	Luceville	83	83	83	83	83	83	83	28	Les Prod For DG	St Aurelie	165	189	260	307	330	330	330	74	Prod For Canbo	Dolbeau	59	71	71	118	118	118	118	
135	Matériaux Blanchet	Amos	236	236	248	248	248	248	248	5	Marcel Lauzon	East Hereford	78	80	80	85	85	85	85	37	Richard Pelletier & Fils	St-Michel-du-Sc	24	24	24	24	24	24	24	
138	Norbord	La Sarre	189	236	236	236	236	236	236	30	Matériaux Blanchet	St-Pamphile	224	224	260	260	260	260	260	82	Roland Castonguay & Ist	St Felicien	21	21	21	21	21	21	21	
129	Norbord	Senneterre	189	236	295	319	337	337	337	120	Max Meilleur & Fils	Ferme Neuve	146	153	165	165	165	165	165	19	Sc Alexandre Lemay & St-Bernard		26	26	26	26	26	26	26	
132	Norbord-Optibois	Barraute	47	47	47	47	47	47	47	23	Preparabois	Lac Frontiere	57	57	57	57	57	57	57	134	Sc Amos	Amos	106	106	106	106	106	106	106	
105	Prod For La Tuque	La Tuque	97	97	165	170	170	170	177	148	Prod For Petit Paris	St-Ludger-de-M	89	89	182	189	189	201	201	76	Sc Mailoux	DeLisle	50	50	50	50	50	33	0	
140	Sc Opticwan	Obedjiwan			59	61	85	85	85	112	Sc G M Dufour	St Faustin	40	47	52	59	94	106	106	62	Sc Norbois Inc	Rivière-Pentec	59	59	59	59	59	59	59	
45	Tembec	Tascherau	177	184	208	208	208	208	208	75	Sc Gaston Morin	Massissini	24	24	24	24	24	24	24	55	Sc Pekan	St Anne-des-Mc	33	33	33	33	33	33	33	
139	Tembec	La Sarre	219	248	260	260	260	260	260	133	Sc Landrienne	Landrienne	148																	

Saskatchewan and Manitoba

Softwood Sawmill Capacity

Plant Capacity (Thous. Cub. Met.)



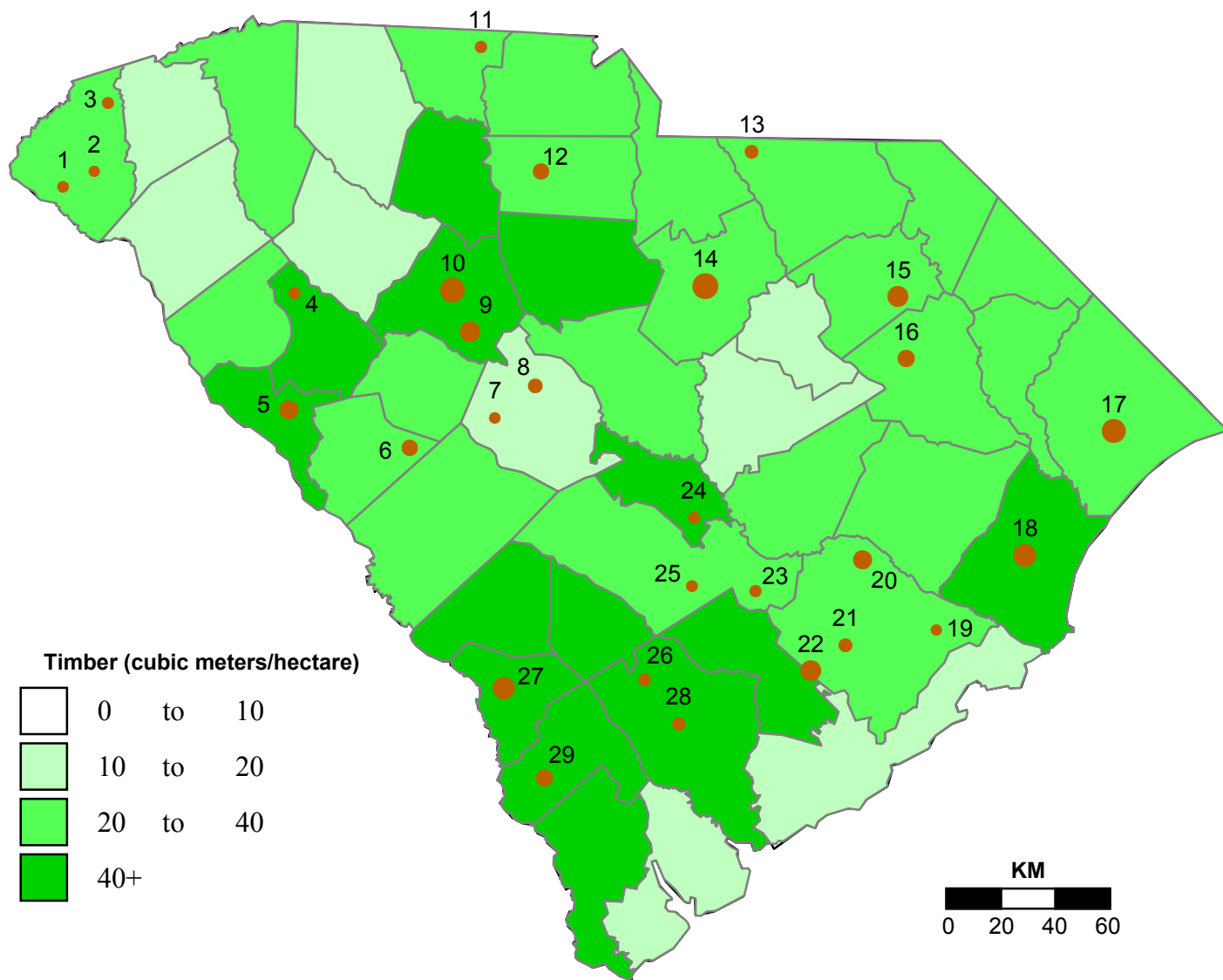
Saskatchewan/Manitoba

Saskatchewan / Manitoba			Capacity / Production (1,000 m³)						
Mill I.D.	Name	Location	1997	1998	1999	2000	2001	2002	2003
Timber Mills									
11	South East Forest Prod	Blumenort,MAN	47	47	47	52	52	52	52
Stud Mills									
1	Clearwater Forest Prod	Meadow Lake,SAS	194	192	192	192	192	192	192
2	Norsask For Prod	Meadow Lake,SAS	212	224	236	236	236	236	236
9	Weyerhaeuser Can	Carrot River,SAS	106	142	160	156	189	189	189
Dimension Mills									
4	Green Lake Metis	Green Lake,SAS	47	47	47	24	47	47	47
Softwood lumber (1,000 m³)									
			1997	1998	1999	2000	2001	2002	2003
	Number of sawmills		12	12	13	13	13	13	13
	Estimated capacity		1261	1319	1505	1588	1785	2017	2135
	Reported output (Stat. Can.)		1048	1209	1472	1360	1166		
	Implied capacity utilization		0.83	0.92	0.98	0.86	0.65		
Softwood Roundwood Removals									
(a)	Logs and Bolts		2607	1828	2577	2636			
(b)	Pulpwood		1360	1368	1513	1282			
(c)	Miscellaneous		239	42	307	287			

Mill I.D.	Name	Location	Capacity / Production (1,000 m³)						
			1997	1998	1999	2000	2001	2002	2003
3	L&M Prod	Glaslyn ,SAS	24	24	24	24	12	19	19
12	Spruce Prod Ltd	Swan River,MAN	47	59	71	71	71	71	71
10	Tolko	The Pas,MAN	212	212	283	319	354	378	413
6	Wapawekka Lumber Ltd	Buckland,SAS			71	142	170	170	170
5	Weyerhaeuser Can	Big River,SAS	215	215	217	217	306	507	590
8	Zelensky-LaRonge	LaRonge,SAS	48	48	48	48	48	48	48
Specialty or Unknown									
7	Provincial For Prod	Prince Albert,SAS	14	14	14	14	14	14	14
13	Sawyer Wood Prod	Winnipeg,MAN	94	94	94	94	94	94	94
Softwood timber (1,000 m³) (1991 data)									
(d)	Mature growing stock	464000							
(e)	Annual private & provincial allowable cut	9619							
(f)	Total removals	(a+b+c)	4206	3238	4397	4205			
Drain to growing stock			(f/d)	0.009	0.007	0.009	0.009		
Typical timber costs (US\$/m³)									
Delivered			na	na	na	na			

South Carolina

Softwood Roundwood Inventory and Softwood Sawmill Capacity



South Carolina

Mill			Capacity / Production (1,000 m³)						
I.D.	Name	Location	1997	1998	1999	2000	2001	2002	2003
			Closed Mills						
	Smurfit Stone	Orangeburg	283	283	283	130			
	B. L. Mims & Son Lumber	Edgefield	12	14	15	15	15		
	Georgia-Pacific Corp	Varnville	170	170	170	170	170		
	Dickert Lumber Co	Newberry	38	38	38	38	38		
	Upchurch	Walterboro	11	11	11	11	11		
			Timber Mills						
11	G&G/Cherokee Wood Pro	Blacksburg	46	46	46	46	46	32	32
8	M. L. Corley & Sons Sawm	Lexington	59	59	59	59	59	71	71
			Stud Mills						
20	Georgia-Pacific Corp	Russellville	170	170	170	170	170	170	170
10	International Paper Corp	Newberry	307	307	307	307	330	330	330
12	Weyerhaeuser Co	Chester				45	92	106	106
			Dimension Mills						
16	Charles Ingram Lumber Co	Effingham	101	99	103	106	123	130	130
15	Chesterfield Lumber Co	Darlington	83	120	153	224	224	224	224
28	Coastal Lumber Co	Walterboro	47	47	47	47	47	47	47
27	Collums Lumber Products	Allendale	142	142	142	142	142	180	260
29	Elliott Sawmilling Co	Estill	122	122	122	122	122	122	122
5	Georgia-Pacific Corp	McCormick	130	149	149	165	165	165	165
Softwood lumber (1,000 m³)			1997	1998	1999	2000	2001	2002	2003
	Number of sawmills		31	31	31	32	32	29	29
	Estimated capacity		3024	3079	3116	3311	3459	3318	3460
(a)	Reported output (U.S. Census)		3172	3167	3099	2910	3309		
	Implied capacity utilization		1.05	1.03	0.99	0.88	0.96		
	Softwood plywood								
	Estimated capacity		693	693	693	693	450		
(b)	Reported output (A.P.A.-Eng.Wd.Assoc.)		638	666	635	607	526		
	OSB								
(c)	Estimated capacity					230	443		
	Reported output (A.P.A.-Eng.Wd.Assoc.)								
(d)	Particleboard/MDF (Composite Panel Assc		852	853	715	720	720		
(e)	Softwd. pulpwood receipts(A.Pulpwd.A.)		9494	9480	9086	9178	9017		
(f)	Approximate drain	(a+b+1.6c+d+e)	14156	14165	13535	13783	14281		

Mill I.D.	Name	Location	Capacity / Production (1,000 m³)						
			1997	1998	1999	2000	2001	2002	2003
9	Georgia-Pacific Corp	Prosperity	201	201	201	201	201	201	201
6	International Paper Corp	Johnston	142	142	142	142	142	106	106
18	International Paper Corp	Sampit	189	189	189	201	260	260	271
22	Mead Westvaco	Summerville	210	210	210	210	210	215	217
14	New South	Camden	283	283	283	319	319	354	378
17	New South	Conway	260	260	260	271	271	283	307
Board Mills									
19	Charleston Heartpine Co	Jamestown	5	6	6	6	6	6	6
26	Warren & Griffin	Williams	35	35	35	35	35	35	35
Specialty or Unknown									
4	A & M Lumber	Hodges	24	24	24	24	24	24	24
24	Cameron Lumber Co	Cameron	28	28	28	28	28	28	28
13	C. M. Tucker Lumber Co	Pageland	57	57	57	57	57	57	57
2	F. B. Davis Sawmill	Richland	11	11	11	11	11	11	11
23	Pennington Crossarm Co	Holly Hill	30	30	30	30	30	30	30
7	Ridge Lumber	Leesville	14	14	14	14	14	14	14
1	Thrift Brothers Lumber Co	Westminster	18	18	18	18	18	18	18
21	Umphlett Lumber Co	Moncks Corne	57	57	57	57	57	57	57
25	V. P. Kiser Lumber Co	Bowman	21	21	21	21	21	21	21
3	Winchester Brothers	Salem	17	17	17	17	19	22	24
	Softwood timber (1,000 m³ (2000 data)		1997	1998	1999	2000	2001	2002	2003
(g)	Growing stock	252890							
(f/g)	Drain to growing stock		0.056	0.056	0.054	0.055	0.056		
<u>Typical sawtimber costs</u>									
Pine (\$/m³)									
	Standing		52	53	52	51	48	48	
	Delivered		65	67	65	67	61	59	

source: *Timber Mart South*

Tennessee

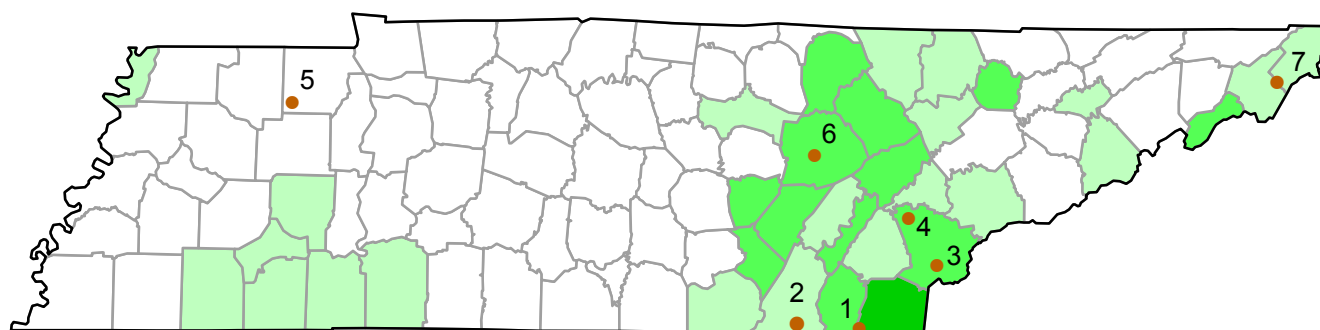
Softwood Roundwood Inventory and Softwood Sawmill Capacity

Plant Capacity (Thous. Cub. Met.)

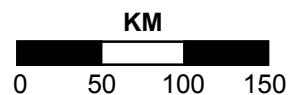
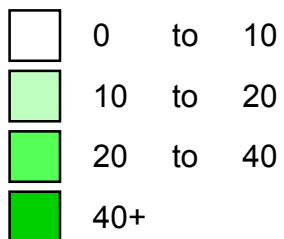
10

355

700



Timber (cubic meters/hectare)



Tennessee

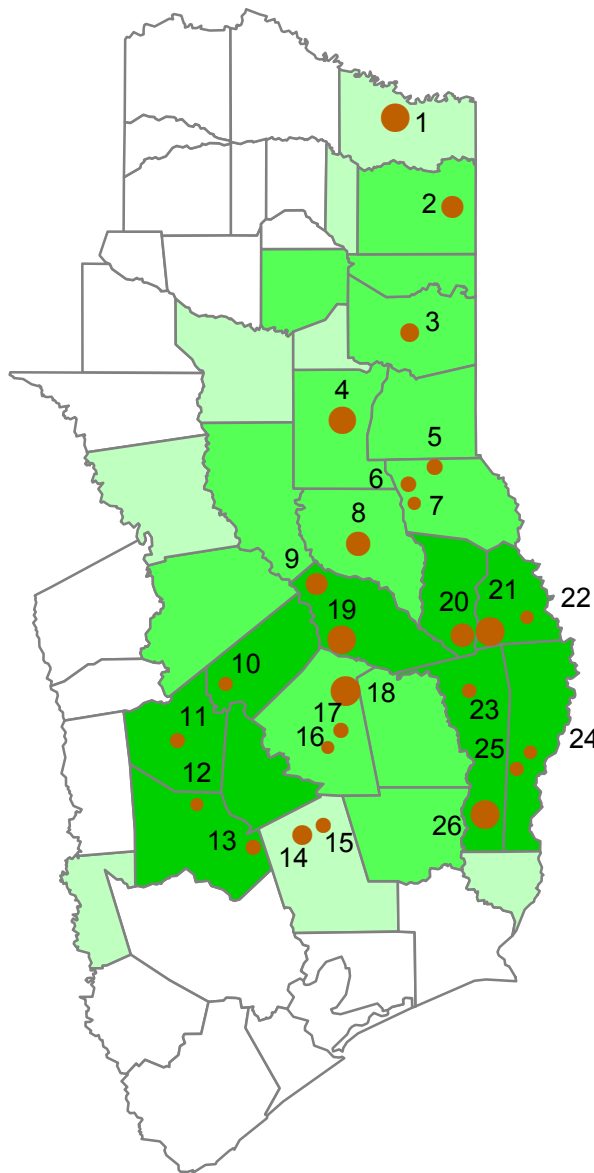
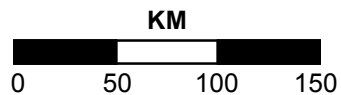
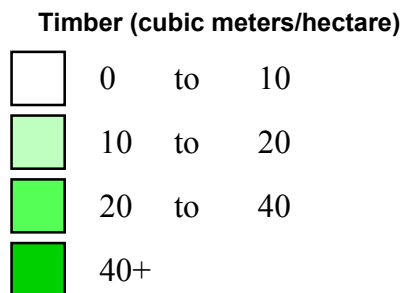
Mill I.D.	Name	Location	Capacity / Production (1,000 m³)						
			1997	1998	1999	2000	2001	2002	2003
			Specialty or Unknown						
1	Conasauga River Lumber Co	Conasauga	9	9	9	9	9	9	9
2	East Brainerd Lumber Co	Chattanooga	35	35	35	35	24	24	24
3	Lynn Sawmill	Tellico Plains	7	7	7	7	7	7	7
Softwood lumber (1,000 m³)			1997	1998	1999	2000	2001	2002	2003
	Number of sawmills		7	7	7	7	7	7	7
	Estimated capacity		94	94	94	94	82	82	83
(a)	Reported output (U.S. Census)		92	97	99	94	85		
	Implied capacity utilization		0.98	1.03	1.06	1.01	1.04		
Softwood plywood									
	Estimated capacity								
(b)	Reported output (A.P.A.-Eng.Wd.Assoc.)								
OSB									
(c)	Estimated capacity		195	336	336	336	336		
	Reported output (A.P.A.-Eng.Wd.Assoc.)								
(d)	Particleboard/MDF (Composite Panel Assoc)								
(e)	Softwd. pulpwood receipts(A.Pulpwd.A.)		2270	2245	2137	2130	2130		
(f)	Approximate drain	(a+b+c+d+e)	2557	2678	2573	2561	2551		

Mill I.D.	Name	Location	Capacity / Production (1,000 m³)						
			1997	1998	1999	2000	2001	2002	2003
4	Pedigo Lumber Co	Sweetwater	12	12	12	12	12	12	12
5	Replogle Enterprises	Henry	7	7	7	7	7	7	7
6	Rose & Son	Crossville	9	9	9	9	9	9	9
7	Shoun Lumber LLC	Butler	14	14	14	14	14	14	14
Softwood timber (1,000 m³)			(1999 data)						
(g)	Growing stock	101543							
(f/g)	Drain to growing stock		0.025	0.026	0.025	0.025	0.025		
Typical sawtimber costs									
Pine (\$/m³)									
	Standing		28	30	31	34	25	31	
	Delivered		40	44	37	44	42	43	

source: *Timber Mart South*

Eastern Texas

Softwood Roundwood Inventory and Softwood Sawmill Capacity



Plant Capacity (Thous. Cub. Met.)

10

355

700

Texas

Texas			Capacity / Production (1,000 m³)						
Mill I.D.	Name	Location	1997	1998	1999	2000	2001	2002	2003
			Closed Mills						
	Louisiana-Pacific Corp	New Waverly	35	35	35				
	Ogletree Forest Prod	Livingston	24	31	24				
	Dean Lumber Co	Gilmer	57	57	57	57			
	Walker Brothers Lumber Co	Huntsville	83	83	83	83			
	A. H. Forestry Prod	Willis	24	24	24	24	24		
	Louisiana-Pacific Corp	Jasper	94	94	94	94	94		
	Louisiana-Pacific Corp	Bon Wier	83	83	83	83	83		
	Wiergate Lumber Co	Wiergate	47	47	47	47	47		
			Timber Mills						
11	Steely Lumber Co	Huntsville	40	40	40	40	40	40	40
			Stud Mills						
14	Louisiana-Pacific Corp	Cleveland	106	106	106	118	130	130	130
20	Temple-Inland	Pineland	175	208	212	212	212	212	212
			Dimension Mills						
2	Anthony Forest Prod	Atlanta	118	118	160	160	165	163	177
10	Atchley Lumber & Supply Co	Trinity	31	24	31	31	31	31	31
8	Cal-Tex Lumber Co	Nacogdoches	205	212	212	212	212	222	231
9	Clemsa Lumber Co	Pollok	61	118	118	118	118	125	172
15	CLW	Cleveland	47	47	47	47	47	47	47
17	CLW	Livingston	47	47	47	47	47	47	47
	Softwood lumber (1,000 m³)		1997	1998	1999	2000	2001	2002	2003
	Number of sawmills		33	33	33	31	30	26	26
	Estimated capacity		3100	3192	3298	3364	3415	3451	3564
(a)	Reported output (U.S. Census)		3049	2948	3132	3280	3014		
	Implied capacity utilization		0.98	0.92	0.95	0.98	0.88		
	Softwood plywood								
	Estimated capacity		1761	1597	1597	1363	1120		
(b)	Reported output (A.P.A.-Eng.Wd.Assoc.)		1418	1405	1393	1351	1085		
	OSB								
	Estimated capacity		1288	1451	1637	1673	1673		
(c)	Reported output (A.P.A.-Eng.Wd.Assoc.)		1174	1349	1464	1431	1344		
(d)	Particleboard/MDF (Composite Panel Assoc)		358	358	390	390	390		
(e)	Softwd. pulpwood receipts(FPL estimate)		7724	7356	6934	6556	5527		
(f)	Approximate drain	(a+b+1.6c+d+e)	14428	14225	14190	13867	12167		

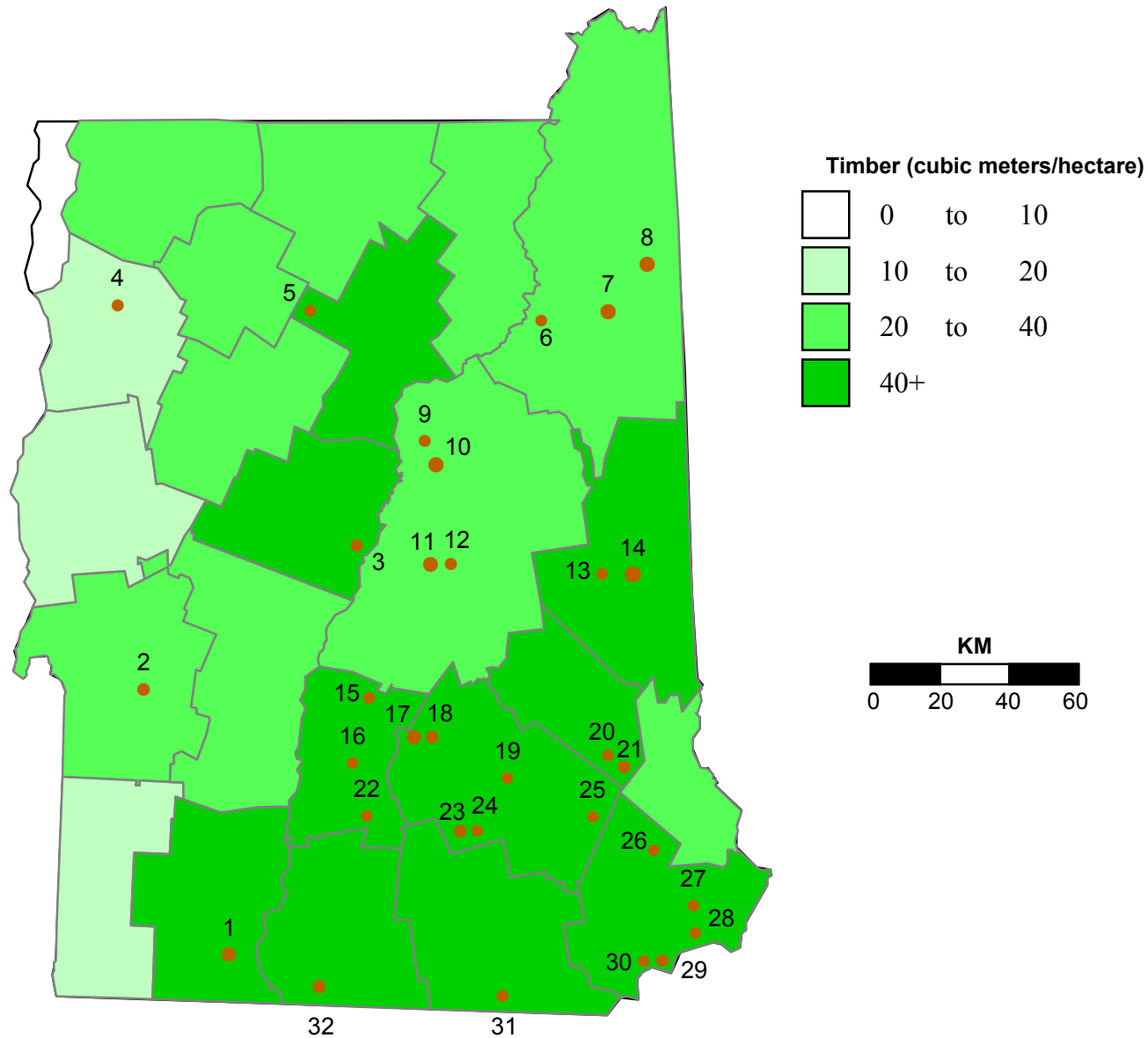
Mill I.D.	Name	Location	Capacity / Production (1,000 m³)						
			1997	1998	1999	2000	2001	2002	2003
13	CLW	Splendora	74	74	74	74	47	47	47
18	International Paper Corp	Camden	290	283	297	382	382	382	382
4	International Paper Corp	Henderson	203	203	212	212	295	295	307
1	International Paper Corp	New Boston	255	255	255	271	330	342	342
26	Temple-Inland	Buna	375	378	378	378	378	354	354
19	Temple-Inland	Diboll	295	295	330	342	342	342	342
21	Temple-Inland	Pineland					59	333	354
Board Mills									
5	Arkansas Forest Prod	Tenaha	59	59	59	59	59	59	59
23	Hart Lumber Co	Jasper	35	35	35	35	35	35	35
6	Nix Forest Industries	Timpson	35	35	35	35	35	42	52
3	Snider Industries	Marshall	106	106	106	106	106	106	106
Specialty or Unknown									
16	Eas-Tex Lumber Co	Livingston	9	9	9	9	9	9	9
22	G. D. Edgar Lumber Co	Hemphill	13	13	13	13	13	13	13
12	Mountain Man	Willis	8	8	8	8	8	8	8
7	Ross Lumber Co	Timpson	17	17	17	17	17	17	17
24	Southern Wood Products	Bon Wier	19	19	19	19	19	19	19
25	Southern Wood Products	Bon Wier	28	28	28	28	28	28	28

		(1992 data)	1997	1998	1999	2000	2001	2002	2003
(g)	Softwood timber (1,000 m³)	223190							
(g)	Growing stock								
(f/g)	Drain to growing stock		0.065	0.064	0.064	0.062	0.055		
Typical sawtimber costs									
Pine (\$/m³)									
Standing			57	51	46	46	42	44	
Delivered			70	69	72	69	67	68	

source: *Timber Mart South*

Vermont and New Hampshire

Softwood Roundwood Inventory and Softwood Sawmill Capacity



Plant Capacity (Thous. Cub. Met.)

10

355

700

Vermont/New Hampshire

Mill I.D.	Name	Location	Capacity / Production (1,000 m³)						
			1997	1998	1999	2000	2001	2002	2003
			Closed Mills						
	TreeSource	West Burke,Vt	120	120	120	59			
	Stinson	Rumney, NH	7	7	7	7	7		
			White Pine Mills						
13	Bellingham Lumber Co	South Tamworth	18	18	18	18	18	18	18
31	Bingham Lumber	Brookline,NH	19	19	19	19	19	19	19
3	Britton Lumber Co	Fairlee,Vt	18	18	18	24	24	24	24
1	Cercosimo Lum Co	Brattleboro,Vt	57	57	62	62	62	62	62
19	Colby Lumber Co	Boscawen,NH	9	9	9	9	9	9	9
15	Cote & Renee Lumber Co	Grantham,NH	12	12	14	14	14	14	14
32	Crestwoods Inc	Winchester,NH	24	24	24	24	24	24	24
21	Desoto Treated Materials	Center Barnstead	33	33	33	33	33	40	40
18	Diprizio Pine Sales	Middleton,NH	35	35	35	35	35	35	35
17	Durgin-Crowell Lumber Co	New London,NH	38	57	61	61	61	61	61
26	Fernald Lumber Co	Nottingham,NH	7	7	8	8	8	8	8
30	Feuer Lumber Co	Atkinson,NH	9	9	9	9	9	9	9
25	Goose Bay Sawmill & Log	Chichester,NH	9	9	9	9	9	9	9
23	Granite Forest Prod	Henniker,NH	35	35	31	31	31	31	31

	Softwood lumber (1,000 m³)	1997	1998	1999	2000	2001	2002	2003
	Number of sawmills	34	34	34	34	33	32	32
	Estimated capacity	1008	1043	1016	960	901	925	925
(a)	Reported output (U.S. Census)	1003	972	932	873	694		
	Implied capacity utilization	1.00	0.93	0.92	0.91	0.77		
	Softwood plywood							
	Estimated capacity							
(b)	Reported output (A.P.A.-Eng.Wd.Assoc.)							
	OSB							
	Estimated capacity							
(c)	Reported output (A.P.A.-Eng.Wd.Assoc.)							
(d)	Particleboard/MDF (Composite Panel Assoc)							
(e)	Softwd. pulpwood receipts(A.Pulpwd.A.)	223	215	206	230	161		
(f)	Approximate drain (a+b+c+d+e)	1226	1188	1138	1104	855		

Mill I.D.	Name	Location	Capacity / Production (1,000 m³)						
			1997	1998	1999	2000	2001	2002	2003
9	H.G. Wood Prod	Bath,NH	21	21	21	21	21	21	21
14	International Paper Corp	West Ossipee,NH	71	83	47	47	47	47	47
11	King Forest Industries	Wentworth,NH	59	59	59	59	59	59	59
4	Lamell Lumber Corp	Essex Junction,Vt	21	21	21	21	21	21	21
2	Mill River Lumber	N. Clarendon,Vt	35	35	35	35	35	35	35
28	M.S.K. Lumber Co	East Kingston,NH	7	7	7	7	7	7	7
22	Onnela Lumber Co	Lempestre,NH	12	12	12	12	12	12	12
24	Patenaude Lumber Co	Henniker,NH	12	12	12	12	12	12	12
5	Pelletier Lumber Corp	Hardwick,Vt	20	20	20	20	20	20	20
6	Perras Lumber Co	Lancaster,NH	17	17	17	17	17	17	17
12	Precision Lumber	Wentworth,NH	28	28	28	28	28	28	28
27	Seacoast Mills	Brentwood,NH	7	7	7	7	7	7	7
10	Tembec	Woodsville,NH	42	47	47	47	47	47	47
29	Three Branches	Plaistow,NH	26	26	26	26	26	26	26
			Dimension Mills						
7	Vallee Lumber Co	Berlin,NH	83	83	83	83	83	83	83
8	Vallee Lumber Co	Milan,NH	83	83	83	83	83	83	83
			Specialty or Unknown						
16	Cherokee Lumber Co	Newport,NH	7	7	7	7	7	7	7

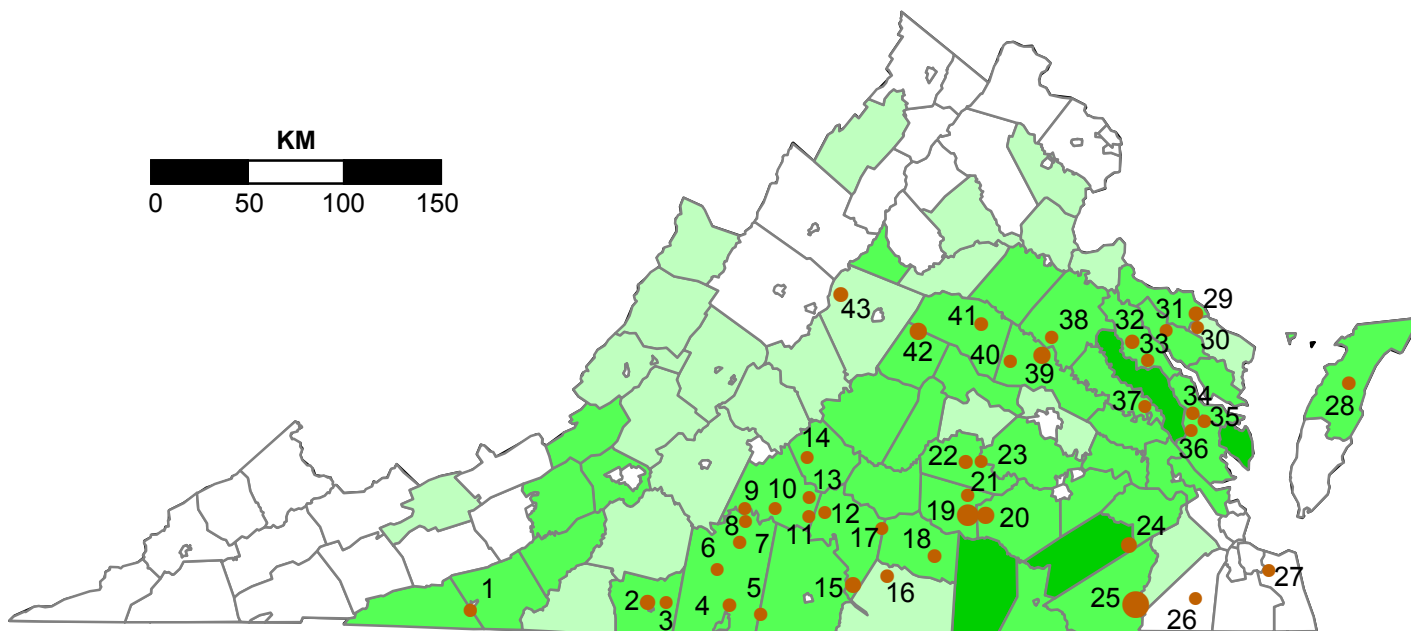
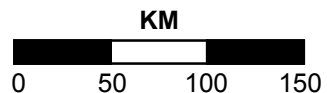
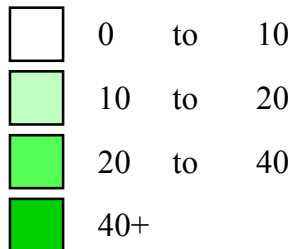
	Softwood timber (1,000 m³)	(1997 data)	1997	1998	1999	2000	2001	2002	2003
(g)	Growing stock	188109							
(f/g)	Drain to growing stock		0.007	0.006	0.006	0.006	0.005		
	Typical sawtimber costs								
	Pine (White) (\$/m³)								
	Standing		24	26	27	28	27	26	
	Delivered		50	47	50	54	55	56	

source: *University of New Hampshire*

Virginia

Softwood Roundwood Inventory and Softwood Sawmill Capacity

Timber (cubic meters/hectare)



Plant Capacity (Thous. Cub. Met.)

 10

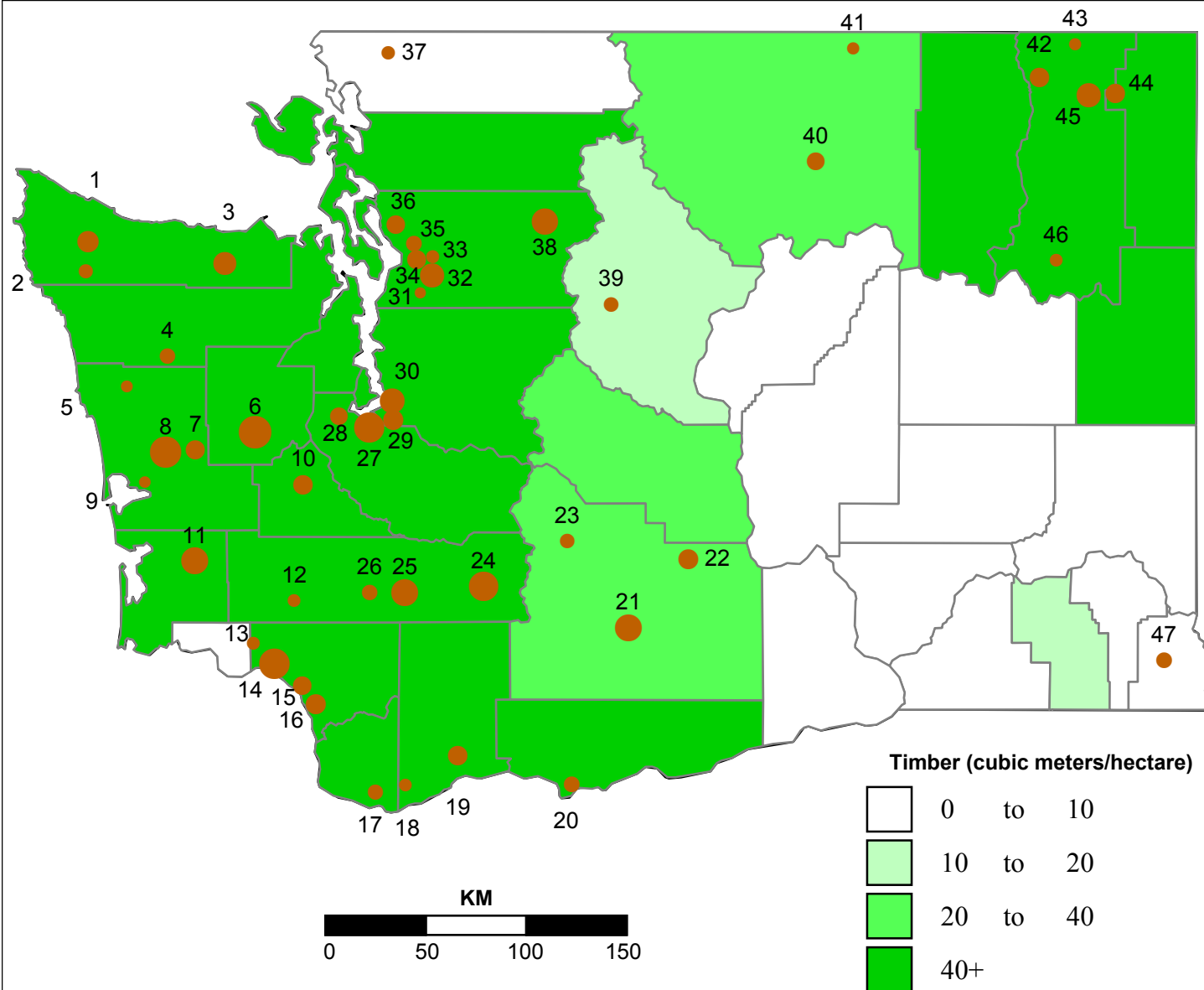
 355

 700

Virginia																		*	
Mill	Capacity / Production (1,000 m³)								Mill	Capacity / Production (1,000 m³)									
I.D.	Name	Location	1997	1998	1999	2000	2001	2002	2003	I.D.	Name	Location	1997	1998	1999	2000	2001	2002	2003
Closed Mills									36	Rappahannock Lumber Co	Saluda	7	7	7	7	7	7	7	
	Smurfitt Stone	West Point		59	59	59	59		43	R. A. Yancey Lumber Corp	Crozet	79	79	79	79	79	79	79	
	Coastal Lumber Co	Suffolk	52	52	52	52	52	24	6	Saunders Lumber Co	Chatham	5	5	5	5	5	5	5	
	Evans Lumber Co	Waverly	59	59	59	59	59	59	37	West Point Logging Corp	West Point	9	9	9	9	9	9	9	
	Tradewinds of Virginia Ltd	Bumpass	59	59	59	59	59	59	Specialty or Unknown										
24	Georgia-Pacific Corp	Wakefield	85	85	85	85	85	76	28	12	Adams Lumber Co	Brookneal	9	9	9	9	9	9	
Timber Mills									23	Anderson Bros Lumber Co	Amelia	9	9	9	9	9	6	6	
42	Chips	Troy	83	83	83	83	83	83	33	Ball Lumber Co	Millers Tavern	14	14	14	18	18	18	18	
7	Gibson Lumber Co	Gretna	17	28	28	28	28	17	34	Carlton & Edwards	Saluda	19	19	19	19	19	19	19	
28	J. Franklin Jones Lumber Co	Accomac	21	21	21	21	21	21	5	Cloverdale Lumber Co	Sutherlin	14	14	14	14	14	14	14	
26	Kirk Lumber Co	Suffolk	5	5	5	5	5	5	9	Dalton Lumber Corp	Altavista	7	7	7	7	7	4	4	
8	Robertson Lumber	Hurt	4	4	4	4	4	4	1	Dixon Lumber Co	Galax	17	17	17	17	17	17	17	
35	William H. Millby Lumber Co	Saluda	8	8	8	14	17	18	3	Dominion Forest Prod	Martinsville	5	5	5	5	5	5	5	
Dimension Mills									30	Earl Withers	Callao	5	5	5	5	5	8	8	
22	Amelia Lumber Co	Amelia	28	28	28	28	28	26	28	10	Gladys Timber Products*	Gladys	18	18	18	18	18	9	0
19	ArborTech	Blackstone					106	153	165	14	J. D. Martin Lumber Co	Spout Spring	6	6	6	6	6	6	6
39	Flippo Lumber Corp	Doswell	53	53	53	57	71	79	80	40	J. E. Jones Lumber Co	Montpelier	14	14	14	14	14	14	14
25	International Paper Corp	Franklin	295	295	295	295	295	295	295	38	J. H. Knighton Lumber Co	Ruther Glen	14	14	14	14	14	14	14
20	Nottoway Lumber Co	Blackstone	83	83	83	83	83	83	83	27	Kempsville Building Materials	Virginia Beach	12	12	12	12	12	12	12
2	Pine Prod Inc	Martinsville	83	94	94	94	99	99	99	31	Northern Neck Lumber Co	Warsaw	5	5	5	5	5	5	5
32	Tidewater Lumber Corp	Tappahannock	35	35	35	35	35	35	35	16	Spaulding Lumber Co	Chase City	21	21	21	21	21	21	21
Board Mills									21	Taylor Ramsey Corp	Blackstone	17	17	17	17	17	17	17	
18	Barnes Manufacturing Co	Kenbridge	21	21	24	24	24	24	24	13	Tucker Sawmill Co	Brookneal	6	6	6	6	6	6	6
4	Max Kendall Lumber Co	Blairs	21	21	21	21	21	21	21	17	Tucker Timber Prod	Keysville	6	6	6	6	6	6	6
15	Morgan Lumber Co	Red Oak	47	47	47	50	50	50	50	41	Walton Lumber Co	Mineral	19	26	26	19	24	24	24
29	Potomac Supply Corp	Kinsale	37	37	37	37	37	37	37	11	Williams Lumber Supply Co	Brookneal	6	6	6	6	6	6	6
Softwood lumber (1,000 m³)			1997	1998	1999	2000	2001	2002	2003	Softwood timber (1,000 m³) (1992 data)			1997	1998	1999	2000	2001	2002	2003
Number of sawmills			45	46	46	46	47	46	43	(g)	Growing stock	188260							
Estimated capacity			1437	1527	1529	1538	1670	1604	1422										
(a)	Reported output (U.S. Census)		1442	1600	1626	1657	1718												
Implied capacity utilization			1.00	1.05	1.06	1.08	1.03												
Softwood plywood																			
(b)	Estimated capacity		281	281	281	281	283												
Reported output (A.P.A.-Eng.Wd.Assoc.)																			
OSB																			
Estimated capacity			897	929	956	956	956												
(c)	Reported output (A.P.A.-Eng.Wd.Assoc.)		894	959	974	1033	1050												
(d)	Particleboard/MDF (Composite Panel Assoc)		623	623	630	630	630												
(e)	Softwd. pulpwood receipts(A.Pulpwd.A.)		4219	4049	3885	3887	3664												
(f)	Approximate drain (a+b+1.6c+d+e)		7458	7512	7396	7487	7346												
</																			

Washington

Softwood Roundwood Inventory and Sawmill Capacity



Washington

Mill I.D.	Name	Location	Capacity / Production (1,000 m³)						
			1997	1998	1999	2000	2001	2002	2003
			Closed Mills						
	Hampton Affiliates	Packwood	236	236	236				
	Barbee Mill Co	Renton	71	71	35				
	Quality Veneer & Lumber	Hoquiam	71	71	71	71			
	Enterprise Lbr	Arlington	85	85	85	85			
	Simpson Timber Co	Tacoma	236	271	271	271			
	Welco Lumber Co	Arlington	142	142	142	142			
	TreeSource	Sedro Woolley	123	123	123	123	123		
	TreeSource	Morton	99	153	205	205	66		
	Delson Lumber Sales	Olympia	71	71	71	71	71		
	TreeSource	Spanaway	142	142	189	189	215	160	
	Vaagen Bros	Republic	189	189	189	189	189	189	
	Weyerhaeuser Co	Enumclaw/Sno	507	507	519	519	519	519	108
			Timber Mills						
33	Canyon Lumber Co	Everett	42	45	45	47	52	52	52
18	Hambleton Bros	Washougal	42	42	42	42	42	42	42
			Stud Mills						
2	Allen Logging Co	Forks	71	71	71	71	71	71	71
35	Crown Pacific	Marysville	76	83	83	106	106	106	106
3	Crown Pacific	Port Angeles		106	236	295	295	307	307
25	Hampton Affiliates	Morton	472	472	393	248	354	446	448
24	Hampton Affiliates	Randle	236	236	138	354	378	555	555
28	Louisiana-Pacific Corp	Tacoma	118	118	118	118	153	165	165
20	SDS Lumber	Bingen	94	94	106	106	106	106	106
			Dimension Mills						
47	Bennett Lumber Co	Clarkston	106	106	106	106	106	106	106
34	Buse Tbr. Sales	Everett	153	177	177	184	184	184	184
17	Columbia Vista	Camas	94	94	94	94	94	94	94
38	Hampton Affiliates	Darrington	236	264	264	288	330	283	425
39	Longview Fibre	Leavenworth	85	85	85	85	85	85	85
30	Manke Lumber	Tacoma	319	378	378	378	378	378	378
1	Portac	Beaver	236	260	260	260	260	260	260
29	Portac	Tacoma	224	224	224	224	224	224	224
	Softwood lumber (1,000 m³)		1997	1998	1999	2000	2001	2002	2003
	Number of sawmills		50	51	51	49	46	44	42
	Estimated capacity		9379	9886	10044	10278	10251	10608	10670
(a)	Reported output (WWPA)		9088	9235	9969	10346	10047		
	Implied capacity utilization		0.97	0.93	0.99	1.01	0.98		
	Softwood plywood								
	Estimated capacity		982	945	945	666	666		
(b)	Reported output (A.P.A.-Eng.Wd.Assoc.)		873	866	1020	875	740		
	OSB								
(c)	Log exports ((Seattle+Longview) U.S. Census)		5665	4840	4590	4206	4200		
(d)	Chip exports ((all chips) U.S. Census)		1224	1670	1506	924	960		
(e)	Softwd. pulpwood receipts(A.Pulpwd.A.)		13876	13652	14059	14248	11951		
(f)	Approximate drain (a+b+c+d+e)		30726	30263	31143	30600	27898		

Mill I.D.	Name	Location	Capacity / Production (1,000 m³)						
			1997	1998	1999	2000	2001	2002	2003
15	RSG For Prod	Kalama	208	208	208	208	218	218	218
32	Seattle-Snohomish	Snohomish	340	354	337	349	354	354	354
7	Sierra Pacific	Aberdeen					7	488	
6	Simpson Timber Co	Shelton	826	850	897	897	897	920	920
27	Simpson Timber Co	Tacoma					330	566	590
10	TreeSource	Tumwater	142	177	194	194	194	201	201
45	Vaagen Bros	Colville	212	212	236	283	354	354	354
8	Weyerhaeuser Co	Aberdeen	472	472	472	637	637	637	637
14	Weyerhaeuser Co	Longview/Gr.M	519	555	543	590	590	599	599
11	Weyerhaeuser Co	Raymond	295	342	401	448	448	451	453
19	Wilkins Kaiser Olsen	Carson	177	189	194	194	196	198	201
21	Yakama For Prod	White Swan	142	142	142	142	142	280	448
41	Zosel Lumber Co	Oroville	38	38	38	38	38	38	38
Cedar Mills									
13	Caffal Bros	Longview	50	50	50	50	50	50	50
5	Crane Cr. Cedar	Amanda Pk	26	26	26	26	26	26	26
4	Mary's River Lumber Co	Montesano	104	104	104	104	104	104	104
16	RSG For Prod	Kalama	177	177	177	177	177	177	177
26	Tubafor Mill	Morton	104	104	104	104	104	104	104
36	Welco Lumber Co	Marysville	177	177	177	177	177	177	177
Board Mills									
42	Boise Cascade	Kettle Falls	182	182	177	177	201	201	201
22	Boise Cascade	Yakima	215	215	215	215	215	215	215
40	Colville Precision Pine	Omak	156	156	156	156	156	156	156
44	Stimson Lumber Co	Colville/Arden	196	196	196	196	196	196	196
Specialty or Unknown									
46	Canyon Lumber Co	Springdale	47	47	47	47	47	47	47
9	Dahlstrom	Hoquiam	24	24	24	24	24	24	24
31	Fritsch Mill	Snohomish	0	21	7	12	17	17	17
37	Great Western	Everson	59	59	59	59	59	59	59
23	Layman Lumber Co	Naches	80	80	80	80	80	80	80
12	Pacific Crest Lumber Co	Winlock			38	47	47	47	47
43	SSF Bldg Mat	Northport	35	35	35	35	35	35	35
Softwood timber (1,000 m³) (1992 data)									
(g)	Growing stock (excl. federal)	902406	1997	1998	1999	2000	2001	2002	2003
(f/g)	Drain to growing stock		0.034	0.034	0.035	0.034	0.031		
Typical sawtimber costs									
Sawtimber, standing (\$/m³)									
	DF & HF, #2 & #3 grade		59	47	54	51	42	42	
Sawtimber, delivered (\$/m³)									
	DF & HF, #2 & #3 grade		78	66	73	70	61	61	

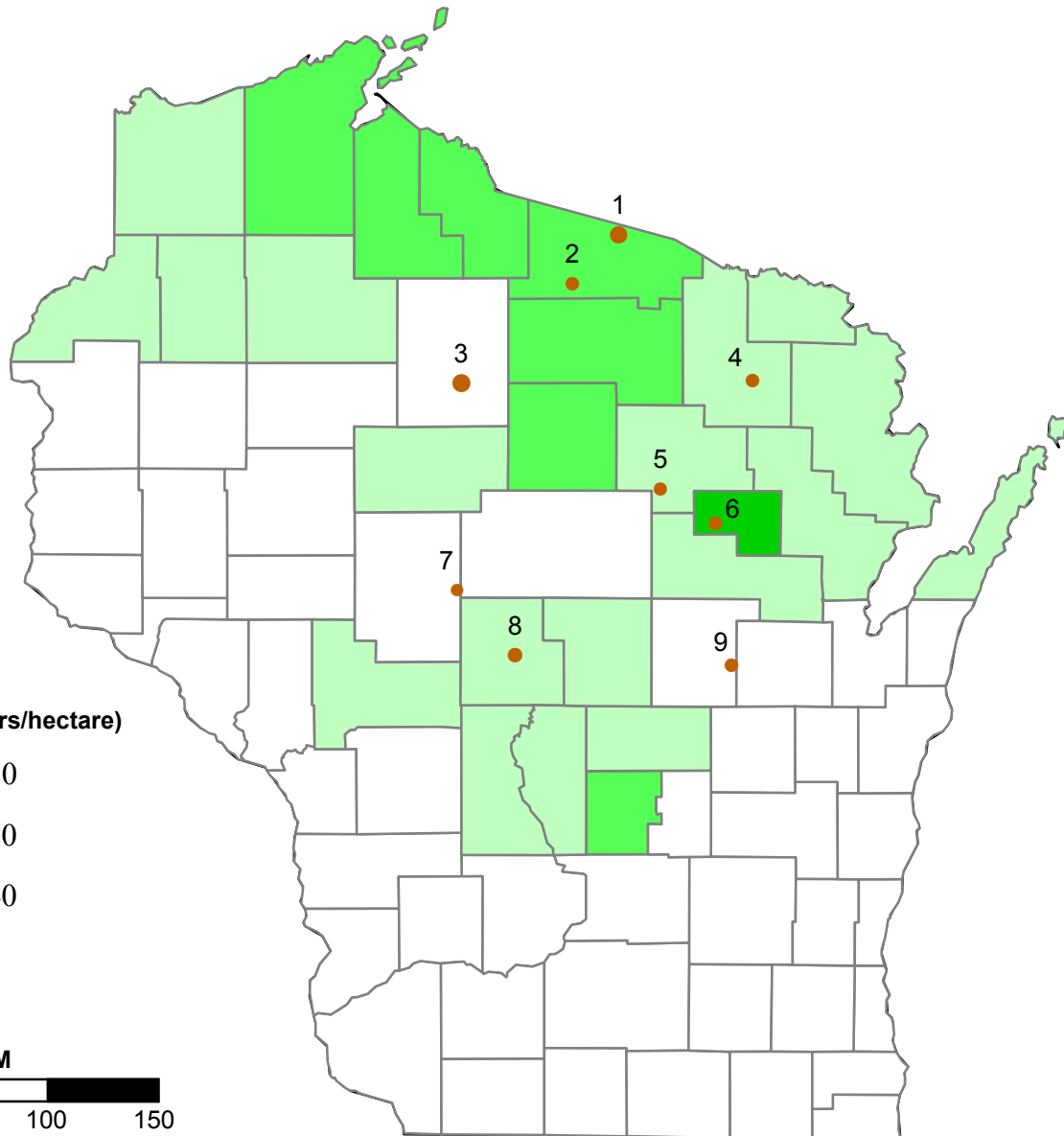
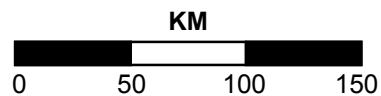
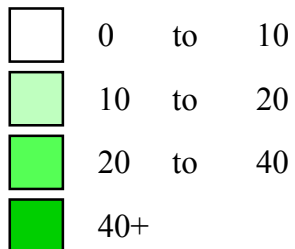
source: standing: LogLines minus FS estimates of harvesting costs
delivered: LogLines

Wisconsin

Softwood Roundwood Inventory and Softwood Sawmill Capacity

Plant Capacity (Thous. Cub. Met.)

Timber (cubic meters/hectare)



10

355

700

Wisconsin

			Capacity / Production (1,000 m³)						
Mill I.D.	Name	Location	1997	1998	1999	2000	2001	2002	2003
Timber Mills									
7	Wolf Sawmill	Spencer	8	8	8	8	8	8	8
Dimension Mills									
3	John A. Biewer Lumber Co	Prentice	90	106	106	106	106	106	106
1	Nagel Lumber Co	Land O'Lakes	94	94	94	94	94	94	94
2	Pukall Lumber Co	Woodruff	26	28	31	31	31	31	31
Softwood lumber (1,000 m³)			1997	1998	1999	2000	2001	2002	2003
Number of sawmills			9	9	9	9	9	9	9
Estimated capacity			350	374	381	400	400	400	400
(a)	Reported output (U.S. Census)		283	340	243	234	212		
Implied capacity utilization			0.81	0.91	0.64	0.58	0.53		
Softwood plywood									
Estimated capacity									
(b)	Reported output (A.P.A.-Eng.Wd.Assoc.)								
OSB									
Estimated capacity			575	562	562	562	562		
(c)	Reported output (A.P.A.-Eng.Wd.Assoc.)		513	565	545	531	543		
(d)	Particleboard/MDF (Composite Panel Assoc		217	205	218	218	215		
(e)	Softwd. pulpwood receipts(A.Pulpwd.A.)		2558	2505	2242	2205	2072		
(f)	Approximate drain (a+e)		2841	2844	2485	2439	2284		

			Capacity / Production (1,000 m³)						
Mill I.D.	Name	Location	1997	1998	1999	2000	2001	2002	2003
8	Ralph Hamel For Prod	Vesper	28	28	28	47	47	47	47
6	Menominee Tribal Enterprise:Neopit		33	33	Board Mills				
					33	33	33	33	33
5	Kretz Lumber Co	Antigo	24	24	Specialty or Unknown				
4	Nicolet Lumber Co	Laona	28	28	28	28	28	28	28
9	Ort Lumber	New London	19	24	28	28	28	28	28
	Softwood timber (1,000 m³)	(2000 data)	1997	1998	1999	2000	2001	2002	2003
(g)	Growing stock	132413							
(f/g)	Drain to growing stock		0.021	0.021	0.019	0.018	0.017		

Typical sawtimber costs
Pine (White) (\$/m³)

Standing	24	23	26	26	29	25
Delivered	na	na	na	na	na	na

source: *State of Wisconsin*