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Profile 1999: Softwood Sawmills in the United States and Canada

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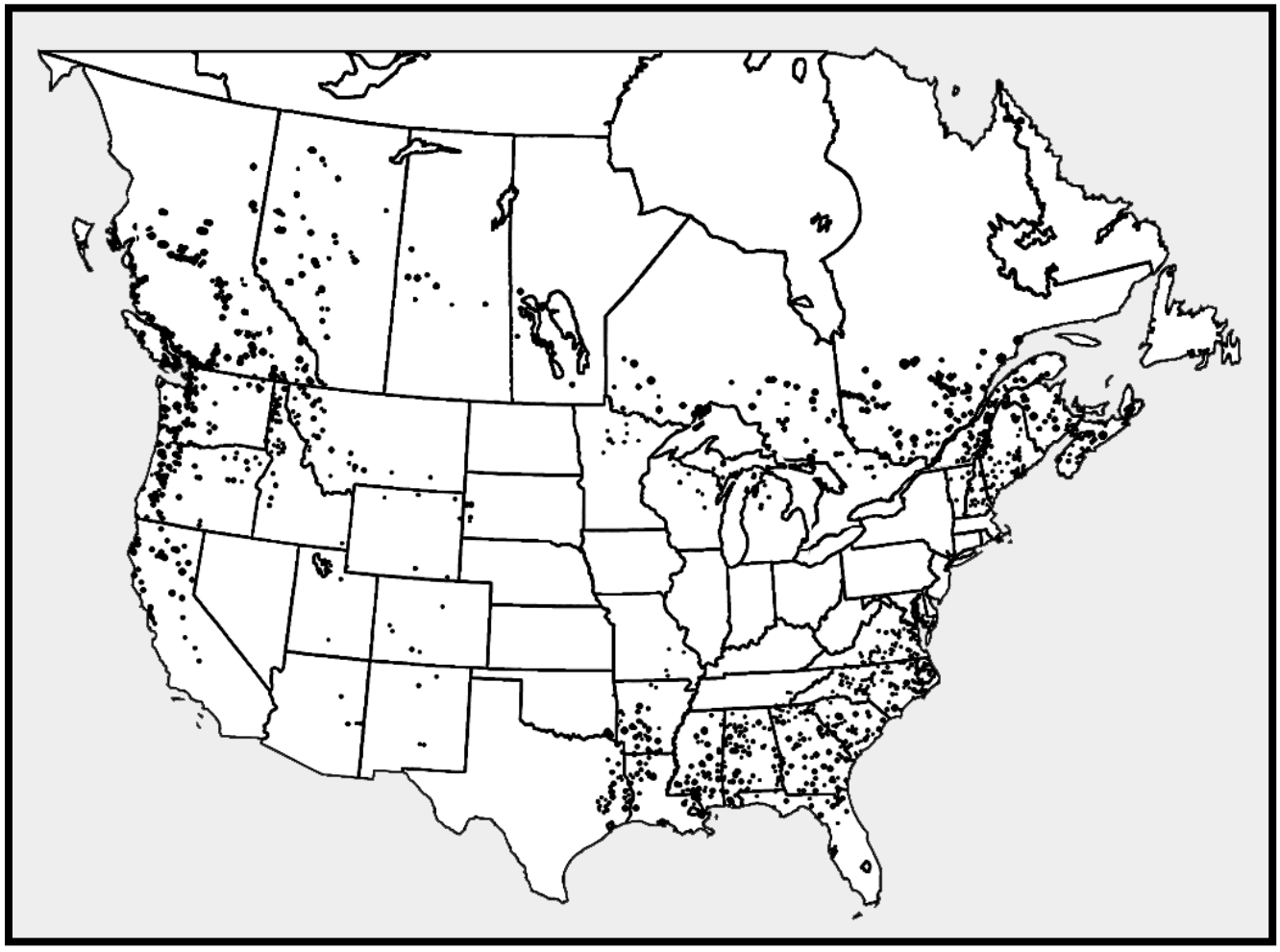

Abstract

More than 1,200 sawmills produce the bulk of U.S. and Canadian softwood lumber. The maps and tables in this report show the location and size of these mills by State and Province. Analysis of timber inventories in relation to use shows a close correspondence between pricing and use intensity. In some Southern States, the intensity of use is approaching recent growth levels, but the adoption of more intensive management coupled with maturing of large areas of newly established forests should increase supply over the next two decades.

Keywords: softwood, sawmill, timber, inventory/drain ratio, inventory/growth ratio

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Preface

The compilation of data on the location and capacities of plants of a sector as large as the softwood lumber industry is a massive undertaking and virtually impossible to do without incurring errors or oversights. If any mills have been omitted or described incorrectly, readers are invited to send additions or corrections to the authors on the form that appears at the end of this report.

The data reported here were obtained from diverse sources. Original credit for stimulating the project belongs to Steve Bean of the Southern Forest Products Association, who scoured public information sources to assemble a data base on the southern softwood lumber industry.

For much of the information presented in this publication we are indebted to the staff of forestry departments of many U.S. States and Canadian Provinces, who have published directories of wood-using industries in their respective regions. These directories were used to expand and update the core data provided by Mr. Bean. Additional details on mill capacities that do not appear in many State directories were taken from the *1999 Directory of the Wood Products Industry* (Miller Freeman 1999), the *Big Book* (Random Lengths 1999), and annual sawmill listings compiled by the trade journals *Timber Processing* and *Southern Lumberman*. Another key source of information was the listing of mills contained in Statistics Canada's annual report of wood-using industries. Finally, we drew upon information from company press releases, annual reports, and 10-K filings.

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Profile 1999: Softwood Sawmills in the United States and Canada

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Introduction

The main purpose of this report is to provide an overview of the size and geographic dispersion of the softwood lumber industry in the United States and Canada as the 20th century draws to an end. Among the major industry groups, the softwood lumber industry is one of the most disaggregated. It involves hundreds of firms who operate thousands of mills that are scattered throughout the United States and Canada. The bulk of its activity, however, is concentrated in about 1,200 mills. We gathered information on these mills and mapped their locations to provide a visual representation of their size and geographic dispersion. Data on capacity and production are summarized in Table 1; maps showing sawmill sites are in Appendix A.

Additionally, for the United States, we provide information on the availability of softwood timber within counties in each State using the latest timber inventory statistics generated by the USDA Forest Service. These data are plotted as background on the mill maps to allow for a simple visual assessment of the abundance of timber relative to the mills that utilize the resource. To gain an understanding of timber pricing and the cost structure of the industry, we compared various measures of timber scarcity to timber prices and report these data in tables appended to the regional maps of mills (App. A).

Table 1—Summary of capacity and production of U.S. and Canadian mills

	1995	1996	1997	1998	1999
Mills (no.)	1,258	1,259	1,247	1,231	1,219
Total mill capacity ($\times 10^6$ m^3)	148	151	156	157	158
Production ($\times 10^6$ m^3)	135	140	146	147	—
Utilization capacity (%)	92	93	93	94	—
Average mill capacity ($\times 10^3$ m^3)	117	120	125	128	129

Data

The core of this report is a list of sawmill locations and capacities for 1995 through 1999 (App. A). These data were obtained from a diverse set of sources, as described in the Preface. Much of the challenge in compiling this list revolved around expressing the data in comparable terms of measurement. Mills in the United States report production and capacity in board feet. Unfortunately, there is no general convention for reporting capacities in terms of consistent number of shifts or hours of operation. Thus, the capacity data may understate the true production potential.

We converted the board foot data to cubic meters using the international convention of 2.36 $m^3/10^3$ board feet. This conversion, however, can be misleading because the actual dimensions of many lumber items are lower than their nominal dimensions. In such cases, the true cubic volume conversion of nominal board feet to cubic meters is substantially less (1.5 to 1.7 compared with 2.36). Thus, the cubic meter capacity and production figures tend to overstate the actual volumes of material produced. However, for estimates of capacity utilization, where production is divided by capacity, this is of no consequence because the errors cancel.

To check the accuracy of our State- or Province-wide capacities built up from individual mill estimates, we compared our totals with reported lumber production from the U.S. Bureau of Census and Statistics Canada. In more than 80% of the cases, these numbers fell within 15% of each other.

A second element of this report is an analysis of sawtimber prices across the regions and the relationship of these prices to measures of timber demand and supply. Again, a crucial step was to place prices on a comparable basis. In the United States, sawtimber prices are generally reported per board foot, log scale. However, a variety of log scales are used and their accuracy differs according to the makeup of the scale. To make the conversion to cubic meters as consistent as possible, we used the following conventions.

Where prices are reported in terms of the Scribner log rule, long log basis, as is the case on the West Coast, we used a conversion factor of 5.3 m^3; the board foot log scale price

was divided by 5.3. Where log prices are reported in the short log version of the same scale, as is the case in most of the South and interior West, we converted those values to metric on the basis of 4.7 $m^3 = 10^3$ board feet, reflecting the reduced omission of taper-related volume in the board foot scale. In some States, the unit of measure used is the international ¼-inch scale. This is the most accurate of the board foot log scales, and we converted these measurements to metric using a conversion factor of 4.5 m^3. For log prices in Canada, such procedures were unnecessary because log prices are reported per cubic meter.

To obtain timber prices for the southern United States, we primarily relied on the price reporting guide *Timber Mart South* (Timber Mart South, Inc. 1980–1995; University of Georgia 1996–1998). As a check, we compared these prices with those published in various State marketing bulletins (for example, the Mississippi State Cooperative Extension, Texas Forest Service Timber Price Trends, Louisiana Department of Agriculture). Because the data corresponded reasonably well (correlation coefficients ranged from 0.81 to 0.99), for consistency we used *Timber Mart South* as our sole source for southern log prices.

For the northern United States, we consulted various forestry departments, extension bulletins, and departments of revenue for recent timber values. By contrast, for western States, where extensive forests are owned and managed by State or Federal agencies, we obtained price data from State or Forest Service timber sale reports. The States of Oregon and Washington were exceptions because recent Federal timber policies have led to a change in the quality of offerings, making those prices unrepresentative of the mainstream stumpage market. For these regions, we used delivered prices, as reported by a consulting firm, Arbor Pacific Corporation (1998), to obtain representative timber costs. Moreover, as western timber tends to be larger and hence more valuable than eastern and northern timber, we used a specific grade of log (No. 2 sawmill), which is generally smaller in size than the average western log and thus more comparable to the sawtimber sizes available elsewhere.

For Canada, we relied upon the annual wood industries report by Statistics Canada (1998) for delivered log costs. A disadvantage of this source is its long lag in data reporting. The latest figures are available for 1996 only. For more recent data, we referenced estimates of a forestry consulting firm (International Wood Market Report 1998).

Timber prices are an effect of underlying supply and demand. To extend the analysis of timber prices to causal factors, we needed to construct estimates of local timber supply and demand balances. To obtain this information, we first collected estimates of timber drain volumes. For the United States, we estimated these figures from (1) log and chip exports, (2) pulpwood receipts, and (3) the production of softwood lumber and plywood. Products made from residues and not accounted for by pulpwood receipts, such as particleboard and medium density fiberboard (MDF), were also counted, as was the production of strandboard where its furnish was primarily softwood. We converted these volumes to a common unit of measurement and aggregated them to arrive at estimates of drain. For Canada, estimates of total roundwood removals were obtained from the Ministry of Forests (Canadian Council of Forest Ministers 1997).

For timber supply, we used estimates of softwood timber inventories and growth calculated for each State or Province in the course of national timber surveys. In the United States, the USDA Forest Service periodically conducts these inventories. Timber is counted as part of the "roundwood" inventory when its diameter reaches 12.7 cm. Similar surveys are conducted in Canada by the Ministry of Forests. Timber inventories are classified as "immature," "mature," and "overmature." For our purposes, we used mature and overmature volumes as estimates of Canadian inventory most comparable to U.S. data.

To represent State/Province supply–demand measures, we divided timber drain, as defined previously, by (1) inventories or (2) gross growth (growth plus mortality).We did the same for Canada, except in the absence of growth data, we substituted Ministry of Forests calculations of annual allowable cuts as a proxy for growth.

Industry Capacity

Changing economics and technology have significantly affected the sawmilling industry in the past 5 years. By our count, 55 mills have been permanently closed since 1995, resulting in a loss of 8 million cubic meters of capacity (Table 2). More than 50% of these closures have occurred in British Columbia, followed by the western and southern regions of the United States (U.S. West and U.S. South, respectively).

These losses have been partially offset by the construction of 16 mills with almost 3 million cubic meters of new capacity. Three of these sites are in the U.S. South, one in the U.S. Midwest, two in the U.S. West, six in Canada east of the Rockies, and four in British Columbia.

However, by far the largest amount of new capacity has come in the form of mill upgrades. The regional distribution of this partly reflects the dislocations that occurred in the U.S. West and the subsequent transfer of some capacity to the U.S. South and Quebec in the first instance and to Ontario and other eastern Provinces and States in the second.

Altogether, the net increase in capacity since 1995 has been estimated at 9.5 million cubic meters. About 45% of this increase has occurred in Quebec, reflecting in part policies to increase value-added utilization by first processing the timber through a sawmill rather than only pulping it. The capacity

Table 2—Estimated changes in U.S. and Canadian sawmill capacity, 1995–1999

Region	Mills (no.)		Capacity ($\times 10^3$ m^3)		Expansion to existing capacity ($\times 10^3$ m^3)	Net gain ($\times 10^3$ m^3)
	Closed	Opened	Closed	Opened		
United States						
South	8	3	(928)	543	4,511	4,125
Northeast	0	0	0	0	245	245
Midwest	0	1	0	300	88	388
West Interior	12	0	(1,151)	0	1,633	482
West Coast	9	2	(1,469)	394	1,640	565
Canada						
Maritime Provinces	0	1	0	94	805	899
Quebec	0	3	0	1,121	3,056	4,177
Ontario	0	1	0	38	536	574
Alberta	0	0	0	0	406	406
Prairie	0	1	0	118	135	253
British Columbia	26	4	(4,463)	261	1,536	(2,666)
Total	55	16	(8,011)	2,869	14,591	9,448

increase in the U.S. South has been similar. In Canada, notable increases have occurred in the Maritime Provinces, which have benefited by their exemption from the strictures of the U.S.–Canada lumber agreement. Despite the well-publicized problems in the West, losses have been offset by new mills and upgrading, resulting in slight overall capacity gains. The big loser has been British Columbia, which we estimate to have lost 2.5 million cubic meters in its overall capacity since 1995.

Product Diversity

One impression that the foregoing discussion of sawmill capacity may leave is that softwood lumber is a homogeneous, thoroughly fungible commodity. But this impression is misleading. Softwood lumber consists of many species, with varying properties, that are used in diverse markets. In the past, sawmills tended to produce a wide variety of items for the many markets that use lumber. However, as mills have increased in size and have grown more capital-intensive, they have tended to narrow their focus to more limited assortments and species to increase their efficiency. Nevertheless, there remains a general delineation among mills that divides the product into at least two distinct categories.

The largest volume of softwood lumber produced, perhaps 80% to 85% of the total, falls into the category of dimension lumber used primarily for construction. This category includes pieces 5 cm thick and 7 cm or more wide. The wide array of species used includes Douglas-fir; hemlock; white fir; southern, red, lodgepole, and jack pines; and spruces.

A second category of softwood lumber is so-called industrial lumber, which is intended for remanufacturing into products such as millwork and molding, doors, windows, and furniture parts. Mills that specialize in these products are usually designated as board mills and are often characterized by an emphasis on grade recovery. They generally process one or more of the pine species (ponderosa, white, and southern pines).

Small mills would have difficulty competing with their larger counterparts in the dimension lumber commodity markets because of their lack of scale economies. They often focus on niche markets that larger firms ignore. They may stress grade recovery, alternating between hardwood and softwood species, or make a variety of specialized products such as siding, fencing, stakes, lath, slats, pallet stock, cribs, crating, and landscape timbers. The range of species encompasses all of those noted in the previous paragraph plus other smaller volume species such as redwoods, cypress, and cedars. These mills often operate with circular saws, sacrificing some recovery for ease of operation.

The extent to which dimension lumber and industrial lumber products are related in their markets can be inferred from their price behavior. The more similar products are in their end uses and properties, and hence the more interchangeable in use, the more closely their prices mirror each other's movements. On the other hand, the more their markets and properties differ, the more their prices can diverge over time. The degree to which variations in prices from year to year are correlated gives a good indication of how well species and grades can be substituted for each other.

Table 3—Correlation of changes in prices among various species, sizes, and grades of dimension and board lumber from period to period[a]

		Correlation of annual prices at various start dates								
		Dimension lumber				Board lumber				
Lumber	Start date	White fir 2×4 Std&btr	Southern Pine 2×4 Std&btr	Spruce-Pine-Fir 2×4 Std&btr	Douglas-fir 2×10 Std&btr	Ponderosa pine 1×12 #3	Idaho White Pine 1×12 Std	Eastern White Pine 1×12 Std	Northern red oak 4/4 #1C	Yellow poplar 4/4 #1C
		1949	1976	1960	1949	1960	1984	1960	1960	1960
Douglas-fir 2×4 Std&btr	1949	0.976	0.887	0.949	0.928	0.550	0.549	0.341	0.470	0.449
White fir 2×4 Std&btr	1949		0.921	0.985	0.904	0.566	0.573	0.393	0.475	0.522
Southern Pine 2×4 #2	1949			0.909	0.842	0.529	0.562	0.492	0.602	0.545
Spruce–Pine–Fir 2×4 Std&bt	1976				0.846	0.465	0.515	0.365	0.500	0.612
Douglas-fir 2×10 Std&btr	1960					0.642	0.641	0.446	0.517	0.518
Ponderosa pine 1×12 #3	1949						0.937	0.914	0.419	0.395
Idaho White Pine 1×12 #3	1960							0.921	0.411	0.454
Eastern White Pine 1×12 Std	1984								0.513	0.389
Northern red oak 4/4 #1C	1960									0.547

[a]Correlation ranges from 1 to 0 (perfect to no correspondence). All ponderosa and White Pine dimension lumber prices plus ponderosa pine and Idaho White Pine board lumber prices from Random Lengths yearbooks. Eastern White Pine board lumber prices courtesy of Lloyd Irland & Associates (Augusta, ME). Northern red oak and yellow poplar data from the Hardwood Market Report (Hardwood Market Report LP, Memphis, TN; used with permission). Std is Standard; Std&btr is Standard & Better.

Correlation coefficients between yearly price changes for four dimension lumber and five board products are displayed in Table 3. Correlations within the dimension category are high, but the western species show a closer price relationship between each other than with Southern Pine. Since Southern Pine is more permeable, it is more suitable for treating, which gives this species a significant market outlet for which other species cannot readily be substituted. The correlations between dimension and board items, on the other hand, are very low, indicating little fungibility between the products. The softwood and hardwood board items also show scant evidence of market overlap.

Timber Availability and Cost

Drain/Growth and Drain/Inventory Ratios

Data for the timber drain, growth (gross), and inventory in Appendix A are summarized in Table 4. An examination of the timber drain/growth ratios reveals that utilization is approaching timber growth across much of the U.S. South. These ratios generally range above 0.8, which means that recent utilizations are 80% or more of growth rates. However, since we have defined growth to include natural mortality, in many cases utilization is likely exceeding growth to the extent that the dead trees are not fully salvaged.

Ratios of timber drain/inventory in the high-volume States follow the same pattern as drain/growth ratios. These ratios range from 0.069 in Alabama to 0.050 in Florida. They translate to inventory turnover periods of 14 to 20 years. Keeping in mind that the definition of inventory excludes timber less than 12.7 cm in diameter, which takes about 12 to 15 years to achieve, the average age of stand liquidation is therefore about 30 years. In the Northeast and the Midwest, as well as in fringe Southern States such as Missouri, Tennessee, and Virginia, the ratios are much lower and inventory turnover periods are thus longer.

The manifestation of high demand in relation to supply is high prices. To the extent that utilization approaches or exceeds replacement in a region, the price of logs should be higher than that in regions where it does not. This is the case across the eastern United States, as illustrated by Figures 1 and 2. As the drain/inventory ratio increases, the price of softwood sawtimber, on the stump or delivered, tends to increase in tandem.

In extending the analysis beyond the Eastern States, we faced the problem of comparing markets in which the quality of the timber and the motivation of some owners differ. In the U.S. West, much of the timber is Federally owned and managed (Table 4) and the policies pursued are often influenced by other than purely economic considerations.

We approached the problem of comparability in the U.S. West by (1) excluding Forest Service timber from timber inventory and growth data and (2) using, where available, grades of logs that most closely resemble the quality of those available in the U.S. East. The most common grade on the West Coast is No. 2 sawmill, which includes logs with a minimum diameter of 30 cm. For Canada, since almost all

Table 4—Summary of softwood timber availability indicators and average 1997–1998 prices

Location	Total inventory ($\times 10^6$ m)	Growth/ inventory ratio	Drain/ inventory ratio	Drain/ growth ratio	Stumpage price (US$/m^3)	Delivered price (US$/m^3)	Federal land (%)
Alabama	315	0.069	0.069	0.998	79	97	5
Arkansas	265	0.063	0.045	0.714	60	86	20
Florida	267	0.062	0.050	0.813	66	84	10
Georgia	442	0.062	0.059	0.955	75	94	5
Louisiana	283	0.061	0.067	1.107	71	89	5
Maine	331	0.030	0.020	0.678	27	49	0
Michigan	215	0.038	0.010	0.270	38	58	20
Minnesota	132	0.039	0.012	0.318	32	52	20
Missouri	24	0.042	0.013	0.313	31	50	35
Mississippi	261	0.078	0.065	0.838	75	87	15
New Hampshire, Vermont	166	0.029	0.015	0.505	26	52	5
North Carolina	355	0.056	0.034	0.601	47	67	5
South Carolina	228	0.074	0.053	0.714	68	87	10
Tennessee	82	0.045	0.032	0.718	38	55	10
Texas	223	0.071	0.063	0.886	71	91	15
Virginia	190	0.045	0.038	0.851	48	77	15
Wisconsin	126	0.039	0.021	0.534	29	49	15
California	529[a]	0.029	0.034	1.174	85	110	65
Idaho	252[a]	0.035	0.029	0.814	68	92	70
Montana	258[a]	0.031	0.022	0.714	44	81	70
Oregon	577[b]	0.044	0.048	0.192	91	118	70
Rocky Mtn[c]	694[a]	0.021	0.004	0.195	27	50	70
Southwest[d]	462[a]	0.026	0.007	0.256	20	44	70
Washington	903[a]	0.040	0.031	0.769	84	94	35
Alberta	1,300	0.011[e]	0.010	NA	NA	35	NA
British Columbia	7,500	0.009[e]	0.009	NA	NA		NA
Coast	—	—	—	—	—	83	—
Interior	—	—	—	—	—	52	—
Maritimes	260	0.041[e]	0.050	NA	NA	39	NA
Ontario	1,660	NA	0.012	NA	NA	39	NA
Quebec	1,700	0.022[e]	0.018	NA	NA	39	NA

[a]Forest Service timber volumes not included in total inventory.
[b]Forest Service and Bureau of Land Management timber volumes or growth not included in total inventory.
[c]Includes Colorado, Wyoming, and South Dakota.
[d]Includes Arizona, New Mexico, and Utah.
[e]Annual allowable cut used as proxy for annual growth.

the timber is under public ownership, we used timber inventory data as published. We also took average softwood timber prices without adjustment for grade or species. These data are displayed in Figure 3, using 1995 delivered prices and drain estimates.

For the U.S. West, the data display the same general relationship between prices and drain/inventory as for the U.S. East, but prices rise more with a given increase in drain/inventory ratio.

Canadian delivered sawtimber prices east of coastal British Columbia are generally lower than those in the United States, but in the context of the utilization of Canada's considerable reserves, these prices are not greatly out of line with those charged in U.S. markets in similar low drain/inventory regions. The exception is the Maritime Provinces, which show low costs despite an apparent high rate of inventory

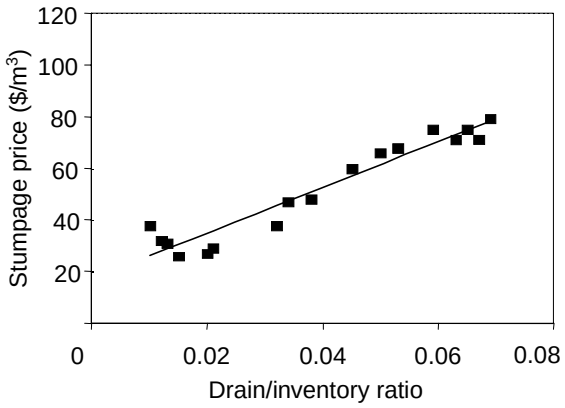

Figure 1—Timber drain/inventory ratios for the eastern U.S. by stumpage price, 1997–1998.

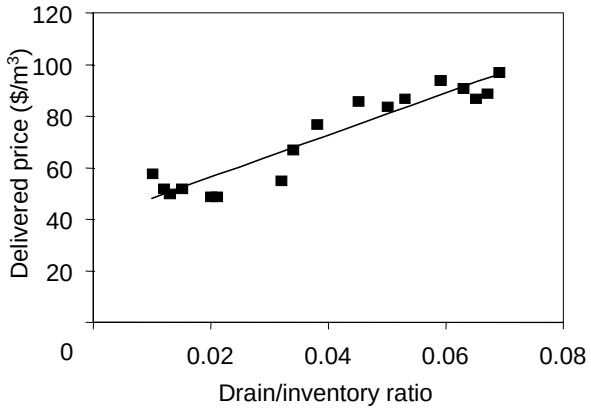

Figure 2—Timber drain/inventory ratios for the eastern U.S. by delivered price, 1997–1998.

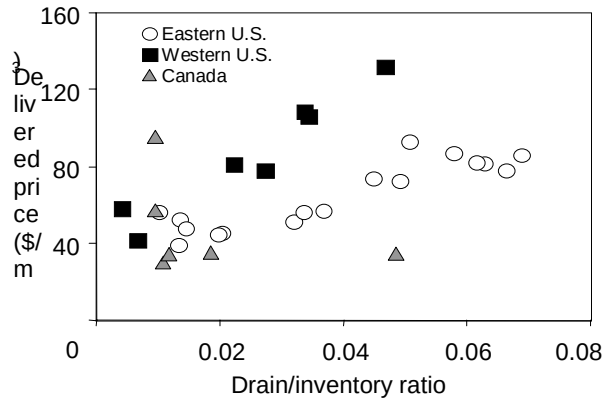

Figure 3—Timber drain/inventory ratios by delivered price for various regions, 1995.

utilization. This is due to a much larger than normal portion of the inventory being classified by the Province as "immature" and hence excluded from the ratio calculation. British Columbia coastal timber costs are substantially above those of their eastern counterparts, but are similar to costs prevailing on the U.S. West Coast.

Discussion

Our review of recent timber price and usage trends reveals a number of cross currents in timber markets.

In the U.S. South, timber utilization rates are high, rotations are short, and removals are approaching, if not exceeding, growth rates. Prices have risen considerably in the 1990s as a result. However, the short timber rotations also reflect the ability to grow timber rapidly. The average annual gross growth increment in Southern States ranges from 5% to almost 7%. These figures are double those of the U.S. Midwest and U.S. Northeast, where growth rates range between 3% and 4%; only West Coast growth rates approach those found in the South. Comparisons with Canadian Provinces are uncertain because the annual allowable cut calculations are net amounts from which mortality and other categories of uneconomic timber have been excluded, but likely levels are between 2% and 3%. An indication of what is achievable in a regulated forest with a northern climate and intensive management is the 4.1% increment reported for Finland (Yrjö 1997).

Although timber drain is approaching and even exceeding growth of softwoods in many major southern areas, ameliorating factors on the horizon may ease the situation within the next two decades.

In the 1992 timber inventory, commercial timberland in the U.S. South was estimated at 36 million hectares (Smith and others 1994). Of this, 15 million hectares qualified as sawtimber, but 12 million hectares were classified in the seedling or sapling stages (less than 12.7 cm in diameter). Moreover, one third of the softwood land area was classed as "plantation" forest. Of this, more than 40% was in the 1- to 10-year age class. In a few years, the trees from these lands will be reaching a size where they will be both counted in the inventory and start supplying fiber in thinnings. In the past several decades, these lands have been extensively planted with genetically improved stock that yields from 15% to 30% greater volumes of wood than do natural, unselected stands (McKeand and Li 1997). Along with the improved stock, the level of management is more intense. Fertilization and suppression of competing growth in the early stages of site establishment are among the major cultivation tools used to increase productivity.

These tendencies are only weakly reflected in the 1992 data (based on data collected in the 1980s). Volume growth for all species on all sites among all ownerships ranged from 3 to 4 m^3/hectare/year. On private industrial lands, annual growth averaged only 15% greater, about 4.2 m^3/hectare. However, current pine yields on intensively managed sites using genetically superior stock are reported to be twice as high—around 8 m^3/hectare. Further, results on intensively cultivated test plots, including plots with annual applications of fertilizer, have shown yields up to twice as much (Borders and Bailey 1999). This illustrates the considerable untapped

production potential in forestry that, if realized, would considerably improve the current supply outlook. The 150% rise in the price of Southern Pine sawtimber since 1990 provides motivation to implement these methods of timber yield enhancement.

In the 1993 RPA Timber Assessment Update (Haynes and others 1995), projections of stumpage prices based on a 30% increase in harvest, coupled with relatively modest improvements in yields, showed stumpage prices increasing by a third (in constant dollars) through 2020 before growth rates caught up with removals, stabilized inventories, and caused prices to retreat. Factoring in a 2% yearly inflation factor results in the price trajectory depicted in Figure 4. This indicates that the shortfall of timber supply lies in the uneven age distribution of the stock tilted toward younger, immature age classes, which will correct as these stands mature. Still, given that industry expansion in the South continues and prices will be driven up in the coming decades, could growth in demand be accommodated more economically from supplies elsewhere?

In the U.S. West, the major question revolves around the role Federal lands will assume in the future timber supply. Current sales from Federal timberland have declined by approximately 75% since the mid-1980s, but more than 15 million hectares have been identified as in need of harvesting treatments to restore sites to ecologically balanced and sustainable conditions. This has the potential to make much timber available, but of a smaller size and lower quality than that the industry has traditionally used. If prices appreciate considerably in the South, it is reasonable to suppose that this resource will become more attractive than is currently the case.

A second likely area of growth in supply is Canada. Canadian timber inventories are substantial and drain/inventory ratios are low. Although the size of the trees in the untapped inventory is small, technology to process this material economically is available, thus bringing into the sawtimber supply stream material that would otherwise have been suitable only for pulp. As compared to material in the inland West, this material has the advantage of easier harvesting because of the less rugged, flatter terrain. Future growth is likely to be channelled in this direction as evidenced, for example, by recent growth in softwood lumber output in Quebec, which increased by more than 50% between 1992 and 1997, even as roundwood harvests rose by only 30%.

In summary, it is likely there will be adequate supplies of timber because of the evolving market for softwood sawtimber, increased forest productivity, maturation of a large area of newly established forests, and advances in manufacturing technology.

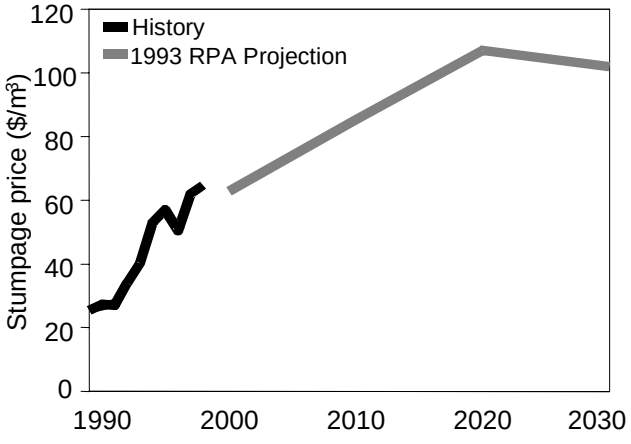

Figure 4—Projected Southern Pine stumpage prices through 2030. (Projections include an assumed 2% per year general inflation factor.)

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Appendix A—Softwood Roundwood Inventory and Sawmill Capacity in Selected States and Provinces

The tables in this appendix show past and current capacity of sawmills and availability of timber in selected regions of the United States and Canada. These data are plotted as background on regional maps. Most maps focus on individual States and Provinces, though a few consolidate States or Provinces with sparse mill populations. The U.S. maps show the location of sawmills and density of timber by county. The Canada maps do not show sub-Province detail since timber density data were not available at such level of detail. On the maps, the mills are identified by numbers, which are keyed to the tables where the mills are listed alphabetically by ownership.

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, North

Colorado, South Dakota, and Wyoming

Florida

Georgia

Idaho

Louisiana

Maine

Manitoba—*see* Saskatchewan

Maryland

Michigan

Minnesota

Mississippi

Missouri

Montana

New Brunswick and Nova Scotia

New Hampshire—*see* Vermont

New Mexico—*see* Arizona

North Carolina

Nova Scotia—*see* New Brunswick

Oklahoma

Ontario

Oregon

Quebec

Saskatchewan and Manitoba

South Carolina

South Dakota—*see* Colorado

Tennessee

Texas, East

Utah—*see* Arizona

Vermont and New Hampshire

Virginia

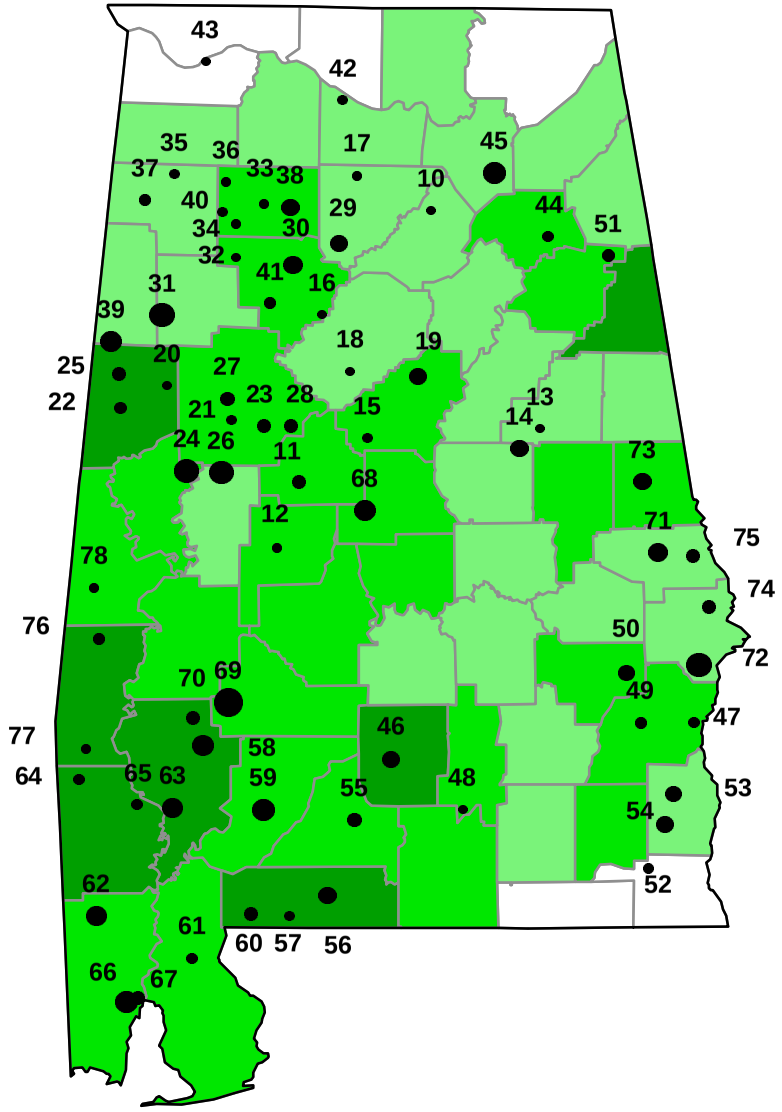
Washington

Wisconsin

Wyoming—*see* Colorado

Alabama

Softwood Roundwood Inventory and Softwood Sawmill Capacity



Timber (cubic meters/hectare)

- 0 to 10
- 10 to 20
- 20 to 40
- 40+

KM

0 50 100 150

Plant Capacity (Thous. Cub. Met.)

- 10
- 355
- 700

Alabama

Mill I.D.	Name	Location	Capacity / Production (1,000 m³) 1995	1996	1997	1998	1999
	Loper Lumber Co	Tuscaloosa	64	64			
	Louisiana-Pacific Corp	Lockhart	74	47	47	47	
	Hampton Lumber Sales	Centreville	64	64	64	64	
78	A T & N Lumber Service	York	14	14	14	14	14
54	Abbeville Forest Products Inc	Abbeville	111	111	111	111	111
53	Abbeville Lumber	Abbeville	94	94	94	94	94
16	A. C. Swindle Contracting Co	Quinton	8	8	8	8	8
51	Bennett Lumber Co	Piedmont	53	53	53	53	53
64	Boise Cascade Corp	Jackson	165	170	189	189	189
45	Bowater Lumber Co	Albertville	217	229	229	229	229
47	Brabham Lumber Co	Eufaula	30	31	31	30	30
62	Champion International Corp	Citronelle	142	184	191	191	189
70	Coastal Lumber Co	Thomasville	36	59	59	59	59
61	Crosby Lumber Co	Bay Minette	24	24	24	24	24
52	Custom Lumber Mfg Co	Dothan	28	28	28	28	28
48	Dozier Lumber Co	Dozier	4	4	4	4	4
75	Dudley Lumber Co	Salem	61	61	61	61	61
57	D. J. Bondurant Lumber Co	Flomaton	21	21	21	21	21
32	Earley Lumber Co Inc	Carbon Hill	5	5	5	5	5
73	East Alabama Lumber Co	Lafayette	118	130	130	130	130
37	Garrison's Sawmill	Haleyville	36	36	36	36	36
49	Garrison Bros Lumber Co	Eufaula	35	35	35	35	35
31	Georgia-Pacific Corp	Fayette	118	260	260	288	288
38	Grayson Lumber Corp	Houston	123	123	123	123	123
36	Great Southern Forest Prod	Haleyville	16	16	16	16	16
66	Gulf Lumber Co Inc	Mobile	221	224	231	224	224
24	Gulf States Paper	Moundville			142	271	271
41	Guthrie Lumber Co	Oakman	35	6	6	35	35
28	Hampton Lumber Sales	Vance	59	59	59	59	59
59	Harrigan Lumber Co Inc	Monroeville	212	224	224	224	224
68	International Paper Corp	Maplesville	217	217	217	217	217
26	International Paper Corp	Moundville	260	260	260	260	260
76	Jachin Lumber Co Inc	Jachin	34	34	34	34	34
63	Jackson Saw Mill Co Inc	Jackson	29	33	28	29	29
30	Jasper Lumber Co	W Jasper	153	148	153	153	153
40	J. H. Nash Lumber Co	Haleyville	19	19	19	19	19

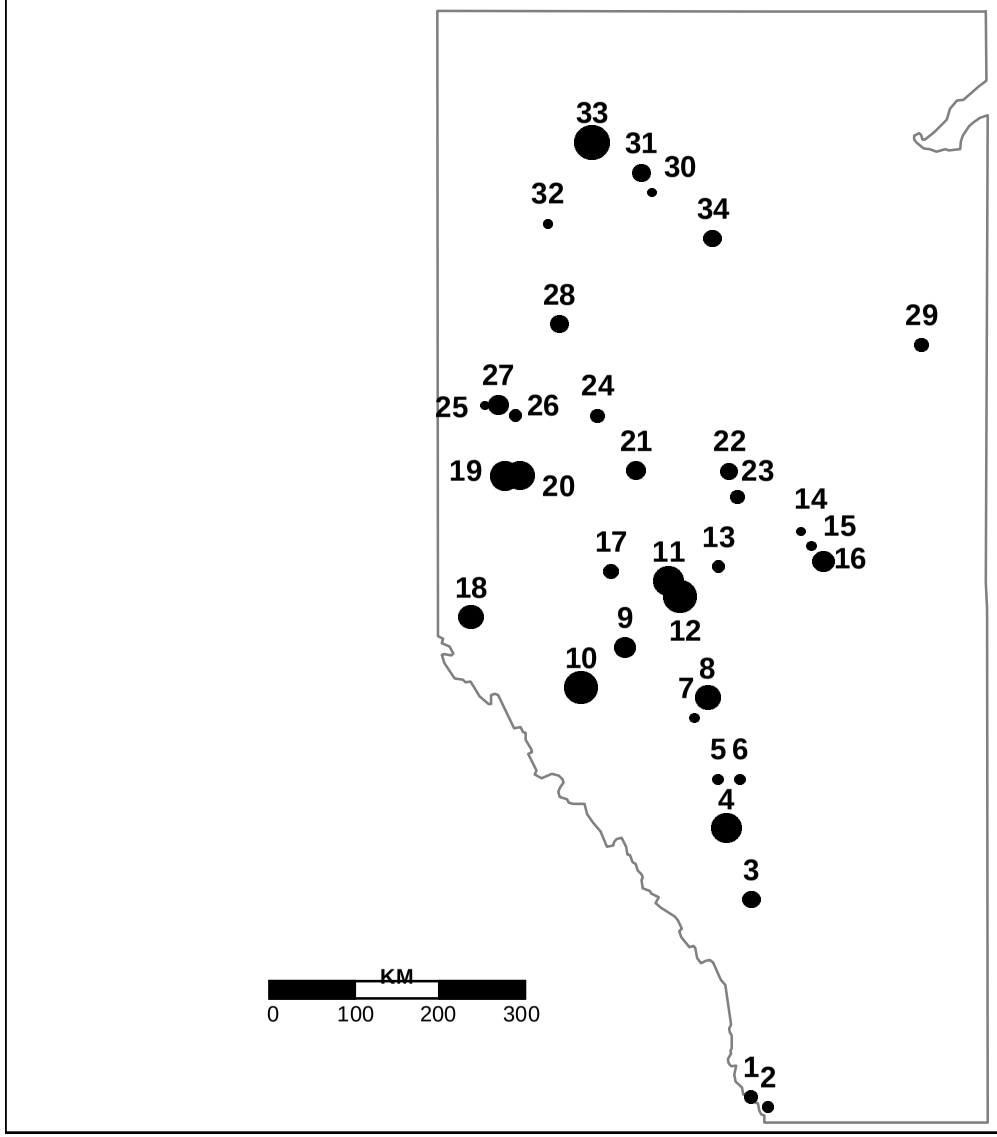
Mill I.D.	Name	Location	Capacity / Production (1,000 m³) 1995	1996	1997	1998	1999
14	Kimberly-Clark Corp	Goodwater	120	120	120	120	120
67	Klumb Lumber Co	Mobile	56	56	56	56	56
12	Kornegay Lumber Co Inc	Centreville	14	14	14	14	14
18	KyKenKee Inc	Vance	6	6	6	6	6
77	Lassiter Lumber Co	Silas	15	15	15	15	15
17	Littrell Bros Lumber Co	Vinemont	15	15	15	15	15
42	Littrell Lumber Mill	Decatur	21	53	24	21	21
55	Louisiana-Pacific Corp	Evergreen	74	76	83	74	74
69	MacMillan Bloedel Inc	Pine Hill	236	212	236	236	378
44	McEntyre Lumber Co	East Gadsden	28	28	28	28	28
43	McKinney Lumber Co	Muscle Shoals	7	7	7	7	7
25	McShan Lumber Co Inc	McShan	57	57	57	57	57
72	Mead Southern Wood Prod	Cottonton	248	248	283	283	283
65	Millry Mill Co Inc	Millry	24	24	24	24	24
10	Mooneyham Lumber Co	Blountsville	4	4	4	4	4
50	M. C. Dixon Lumber Co Inc	Eufaula	94	106	106	106	106
20	Newton Lumber Co Inc	Tuscaloosa	11	11	11	11	11
11	Olon Belcher Lumber Co Inc	Brent	61	61	61	61	61
22	Pate Lumber Co Inc	Carrollton	42	42	42	42	42
21	Pearson Lumber Co	Tuscaloosa	23	23	23	23	23
74	Phenix Lumber Co	Phenix City	59	59	59	59	59
19	Produits Forestiers Alliance	Westover	118	118	118	118	118
34	Robins Lumber Co	Double Springs	12	12	12	12	12
58	Scotch Lumber Co	Fulton	198	198	198	198	198
29	SE Wood-Jasper Sawmill	Jasper	118	118	118	118	118
15	Seaman Timber Co	Montevallo	18	18	18	18	18
33	Sipsey River Timber Co	Double Springs	12	12	12	12	12
13	Sterling Lumber & Supply Co	Goodwater	8	8	8	8	8
60	Swift Lumber Co Inc	Atmore	57	59	64	57	57
56	T. R. Miller Mill Co Inc	Brewton	142	142	142	142	142
46	Union Camp Corp	Chapman	118	118	118	118	118
71	Union Camp Corp	Opelika	170	170	170	170	170
35	Valley Lumber Co Inc	Hackleburg	19	19	19	19	19
23	Vance Lumber Co Inc	Vance	59	61	59	59	59
39	Weyerhaeuser Co	Millport	177	217	217	217	217
27	W. G. Sullivan Lumber Co	Northport	66	66	66	66	66

	Softwood lumber (1,000 m³)	1995	1996	1997	1998	1999
	Number of sawmills	71	71	71	71	69
	Estimated capacity	5406	5667	5818	5979	6008
(a)	Reported output (U.S. Census)	5069	4980	4991		
	Implied capacity utilization	0.94	0.88	0.86		
	Softwood plywood					
	Estimated capacity	1312	1323	1323	1323	1323
(b)	Reported output (A.P.A.-Eng.Wd.Assoc.)	1297	1267	1288		
	OSB					
(c)	Estimated capacity	310	310	310	310	310
	Reported output (A.P.A.-Eng.Wd.Assoc.)	na	na	na		
(d)	Particleboard/MDF (Composite Panel Assoc)	462	462	489	462	
(e)	Softwd. pulpwood receipts(A.Pulpwd.A.)	14503	13832	15233		
(f)	Approximate drain *(a+b+c+d+e)*	21640	20850	22311		

	Softwood timber (1,000 m³)	(1992 data)	1995	1996	1997	1998	1999
(g)	Growing stock	314743					
(h)	Net growth + mortality	21648					
	Drain estimate (all sources)	20261					
(h/g)	Growth to growing stock	0.069					
(f/g)	Drain to growing stock		0.069	0.066	0.071		
(f/h)	Drain to growth		1.000	0.963	1.031		
(h-f)/g	Relative surplus		0.000	0.003	-0.002		
	Typical wood costs						
	Pine sawtimber ($/m³)						
	Standing		62	55	78	80	
	Delivered		86	78	97	98	

Alberta

Softwood Roundwood Inventory and Softwood Sawmill Capacity



Plant Capacity (Thous. Cub. Met.)

10

355

700

Alberta

Mill I.D.	Name	Location	Capacity / Production (1,000 m³) 1995	1996	1997	1998	1999
1	Atlas Lumber	Blairmore	66	66	66	66	66
24	Boucher Bros.	Nampa	71	71	71	71	71
21	Buchanan Lumber	High Prairie	177	177	177	177	177
14	Calling Lake Lum	Athabasca	9	9	9	9	9
27	CanFor	Hines Creek	184	184	184	184	184
20	CanFor	Grande Prairie	389	389	389	389	389
2	Cowley For Prod	Cowley	38	38	38	38	38
34	Daishowa	Red Earth	142	142	142	142	142
33	Daishowa	High Level	590	590	590	590	590
25	Double Z	Hines Creek	10	10	10	10	10
30	Evergreen Lumber	LaCrete	8	8	8	8	8
6	Hansen For Prod	Eckville	24	24	24	24	24
31	LaCrete	LaCrete	28	151	151	151	151
28	Manning	Manning	153	153	153	153	153
16	Millar	Boyle	212	212	212	212	212
11	Millar	Whitecourt	413	413	413	413	413
17	Mostowich Lumber	Fox Creek	83	83	83	83	83

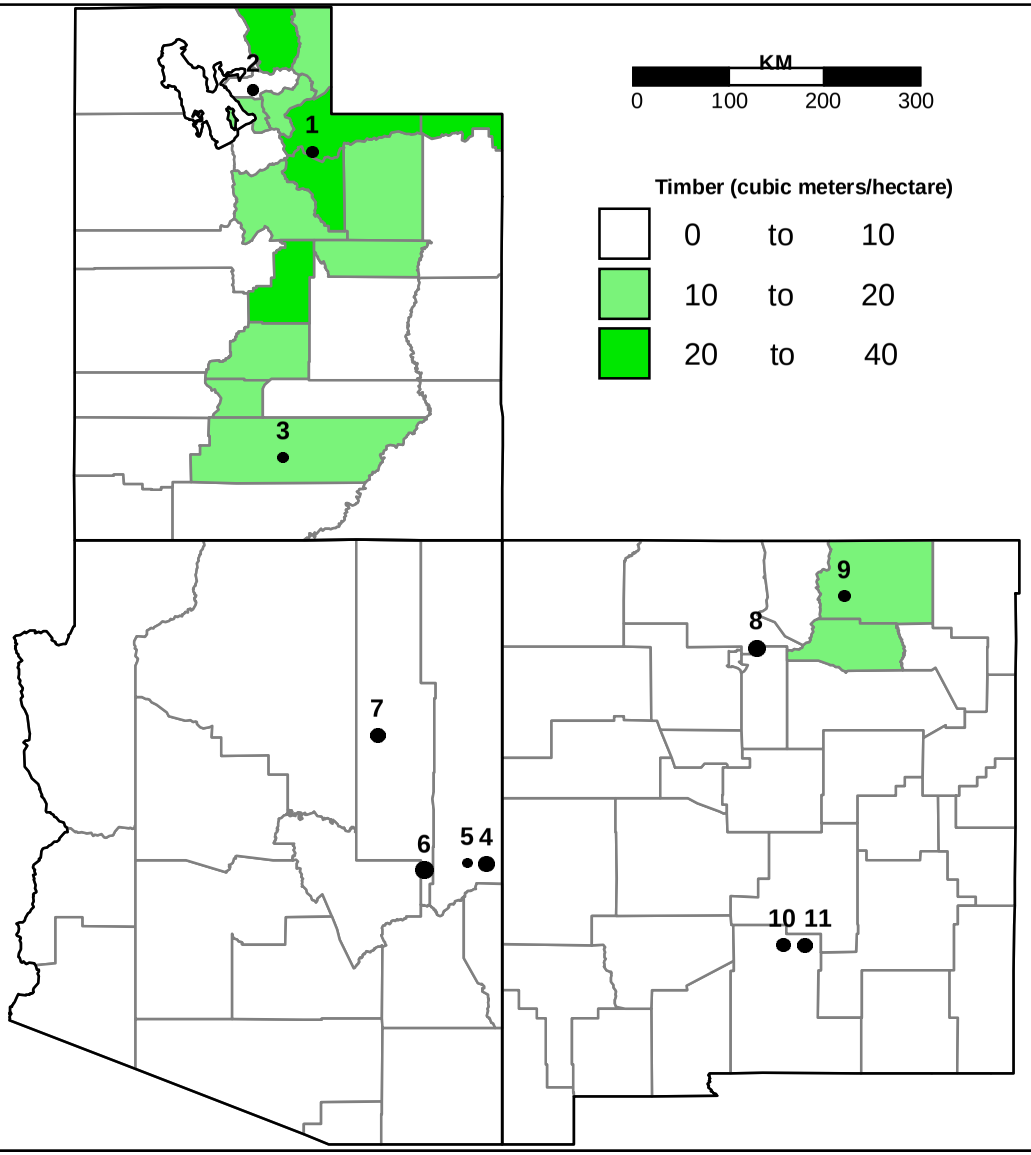
Mill I.D.	Name	Location	Capacity / Production (1,000 m³) 1995	1996	1997	1998	1999
29	Northland F P	Fort McMurray	71	71	71	71	71
5	Rocky Wood Preservers	Rocky Mtn Hse	28	28	28	28	28
3	Spray Lake	Cochrane	125	125	125	125	125
9	Sundance	Edson	201	201	201	201	201
7	Tall Pine Timber	Lodgepole	21	21	21	21	21
15	Tara For Prod	Athabasca	19	19	19	19	19
13	Timeu For Prod	Fort Assinboine	47	47	47	47	47
22	Vanderwell	Slave lake	118	118	118	118	118
4	Weldwood	Sundre	212	189	425	425	425
10	Weldwood	Hinton	519	519	519	519	519
12	West Fraser	Whitecourt	519	519	519	519	519
32	Wetkeg For prod	Keg River	15	15	15	15	15
18	Weyerhaeuser	Grande Cache	212	236	283	283	283
8	Weyerhaeuser	Drayton Valley	307	307	307	307	307
19	Weyerhaeuser	Grande Prairie	401	401	401	401	401
26	Zavisha Sawmills	Hines Creek	47	47	47	47	47
23	Zeidler For Ind	Slave Lake	71	71	71	71	71

	Softwood lumber (1,000 m³)	1995	1996	1997	1998	1999
	Number of sawmills	34	34	34	34	34
	Estimated capacity	5533	5655	5938	5938	5938
	Reported output (Stat. Can.)	5486	5644	5998		
	Implied capacity utilization	0.99	1.00	1.01		
	Softwood Roundwood Removals					
(a)	Logs and Bolts	12282	11130			
(b)	Pulpwood	1751	1611			
(c)	Miscellaneous	35	24			

	Softwood timber (1,000 m³)	(1991 data)	1995	1996	1997	1998	1999
(d)	Mature growing stock	1300000					
(e)	Annual private & provincial allowable cut		13907	13907	13907		
(f)	Total removals	*(a+b+c)*	14068	12765			
	Allowable cut to growing stock	*(e/d)*	0.011	0.011	0.011		
	Drain to growing stock	*(f/d)*	0.011	0.010			
	Typical sawtimber costs (US$/m³)						
	Delivered		30	36	37	34	
				36.13			

Arizona, New Mexico, and Utah

Softwood Roundwood Inventory and Softwood Sawmill Capacity



Plant Capacity (Thous. Cub. Met.)

10

355

700

Arizona/New Mexico/Utah

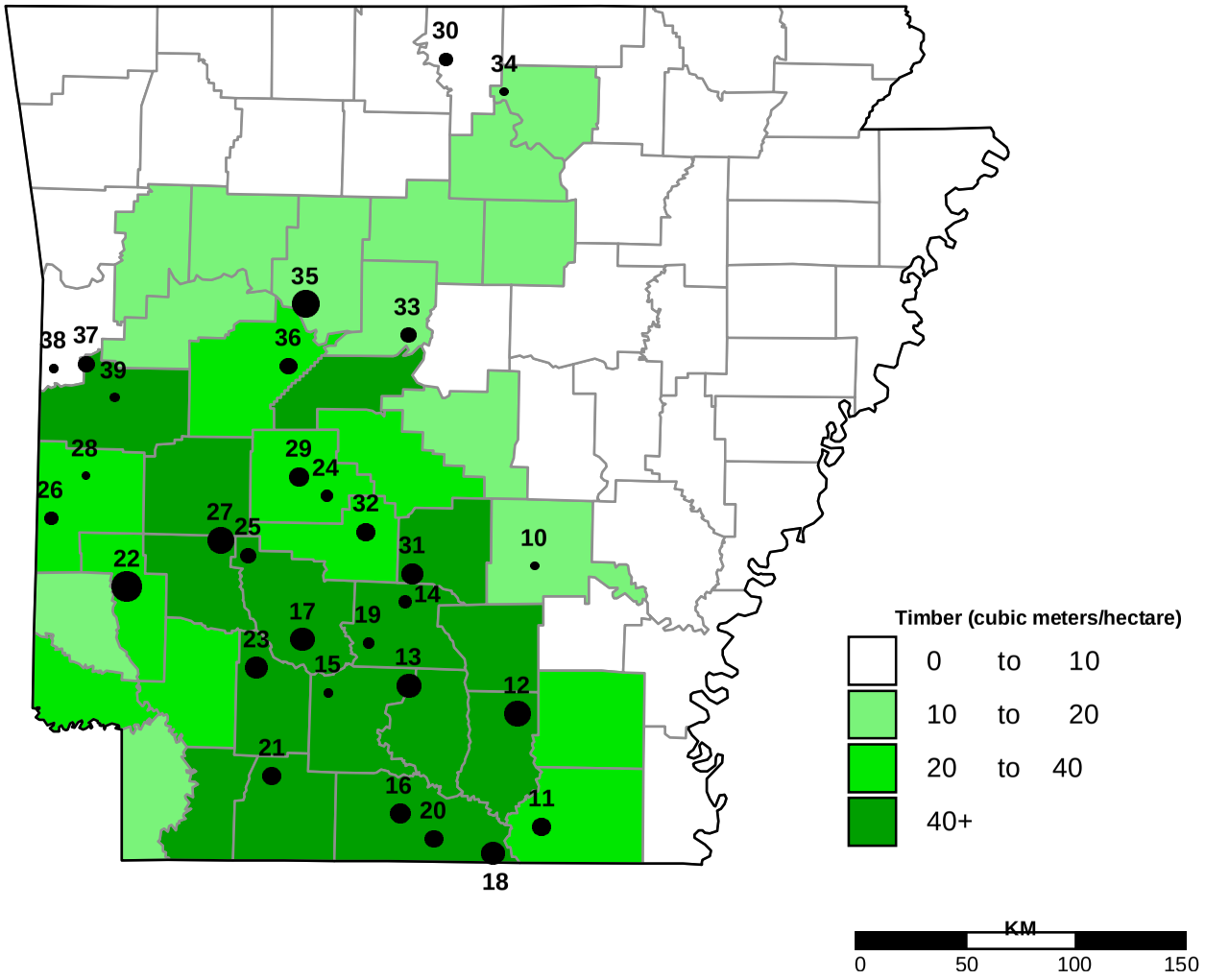
Mill I.D.	Name	Location	Capacity / Production (1,000 m³) 1995	1996	1997	1998	1999
10	Allied Forest Prod	Alamogordo,NM	61	66	66	66	66
6	Fort Apache Timber Co	Whiteriver, AZ	146	146	146	146	146
8	Idaho Timber Corp	Espanola, NM	118	118	118	118	118
1	Leavitt Lumber Co	Kamas, UT	44	44	44	44	44
2	Lucas Lumber	Ogden, UT	35	35	35	35	35
11	Mescalero Forest Prod	Mescalero, NM	83	83	83	83	83
9	Pacific Studs & Lumber Co	Cimarron, NM	21	26	41	41	41
7	Precision Pine	Winslow , AZ	83	83	83	83	83
5	Reidhead Bros Lumber Co	Nutrioso, AZ	18	18	18	18	18
4	Stone Forest Industries	Eagar, AZ	109	109	109	109	109
3	Utah Forest Products Inc	Escalante, UT	24	24	24	24	24

	Softwood lumber (1,000 m³)	1995	1996	1997	1998	1999
	Number of sawmills	11	11	11	11	11
	Estimated capacity	742	752	767	767	767
(a)	Reported output (U.S. Census)	604	583	616		
	Implied capacity utilization	0.81	0.78	0.80		
	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)	2493	2455	2380		
(f)	Approximate drain *(a+e)*	3097	3038	2996		

	Softwood timber (1,000 m³)	(1992 data)	1995	1996	1997	1998	1999
(g)	Growing stock	462149					
(h)	Net growth + mortality	11898					
	Drain estimate (all sources)	3035					
(h/g)	Growth to growing stock	0.026					
(f/g)	Drain to growing stock		0.007	0.007	0.006		
(f/h)	Drain to growth		0.26	0.26	0.25		
(h-f)/g	Relative surplus		0.019	0.019	0.019		
	Typical wood costs						
	Softwood sawtimber ($/m³)						
	Standing		19	12	20	na	
	Delivered		42	36	44	na	

Arkansas

Softwood Roundwood Inventory and Softwood Sawmill Capacity



Plant Capacity (Thous. Cub. Met.)

10

355

700

Arkansas

Mill I.D.	Name	Location	Capacity / Production (1,000 m³) 1995	1996	1997	1998	1999
20	Anthony Forest Prod	Urbana	106	106	149	149	149
32	Anthony Timberlands Inc	Malvern	165	165	158	165	165
13	Bearden Lumber Co	Bearden	283	295	309	307	307
35	Bibler Brothers Inc	Russellville	236	330	354	354	354
24	Buddy Bean Lumber Co	Hot Springs	52	52	52	52	52
38	C & M Lumber Co	Waldron	14	14	14	14	14
25	Curt Bean Lumber Co	Amity	94	99	94	94	94
27	Curt Bean Lumber Co	Glenwood	171	337	337	342	342
36	Deltic Timber Corp	Ola	130	130	130	130	130
21	Deltic Timber Corp	Waldo	170	170	177	177	177
34	Forty Four Lumber Co Inc	Calico Rock	4	4	4	4	4
11	Georgia-Pacific Corp	Crossett	165	156	156	165	165
16	Georgia-Pacific Corp	El Dorado	248	153	177	208	208
10	Hixson Lumber Sales	Pine Bluff	4	4	4	4	4
30	H. G. Toler & Son Lbr Co	Leola	71	71	71	71	71

Mill I.D.	Name	Location	Capacity / Production (1,000 m³) 1995	1996	1997	1998	1999
14	Idaho Timber Corp	Carthage	59	59	59	59	59
17	International Paper Corp	Gurdon	283	283	283	283	283
31	International Paper Corp	Leola	224	210	212	224	224
26	Lewis Lumber & Mfg Co	Cove	71	71	71	71	71
28	Mid-South Wood Prod	Mena	7	7	7	7	7
33	Pinecrest Lumber Co	Plumerville	106	106	106	106	106
18	Plum Creek Timber Co	Huttig	276	271	271	276	276
23	Potlatch Corp	Prescott	118	153	236	236	236
12	Potlatch Corp	Warren	192	293	309	333	333
19	Ray White Lumber Co	Sparkman	35	35	35	35	35
39	Scott County Lumber Prod	Waldron	23	23	23	23	23
37	Travis Lumber Co Inc	Mansfield	113	113	113	113	113
22	Weyerhaeuser Co	Dierks	354	425	448	453	453
29	Weyerhaeuser Co	Mountain Pine	236	182	182	182	182
15	Wood Lumber Co Inc	Chidester	15	15	15	15	15

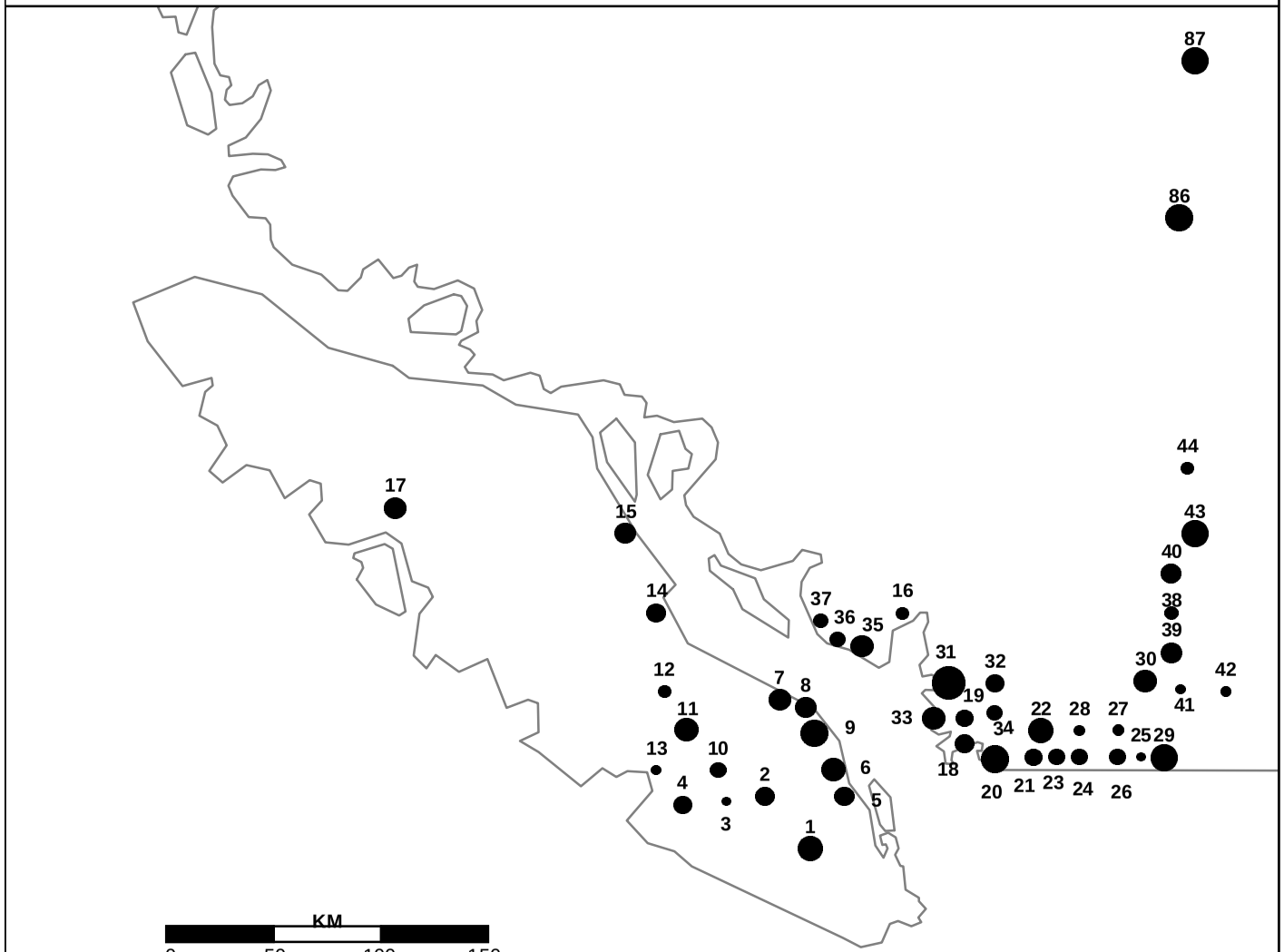
	Softwood lumber (1,000 m³)	1995	1996	1997	1998	1999
	Number of sawmills	30	30	30	30	30
	Estimated capacity	4028	4334	4558	4653	4653
(a)	Reported output (U.S. Census)	4158	4371	4663		
	Implied capacity utilization	1.03	1.01	1.02		
	Softwood plywood					
	Estimated capacity	1645	1645	1623	1623	1623
(b)	Reported output (A.P.A.-Eng.Wd.Assoc.)	1647	1674	1610		
	OSB					
(c)	Estimated capacity					
	Reported output (A.P.A.-Eng.Wd.Assoc.)					
(d)	Particleboard/MDF (Composite Panel Assoc)	216	216	584	584	
(e)	Softwd. pulpwood receipts(A.Pulpwd.A.)	5852	5527	5379		
(f)	Approximate drain *(a+b+c+d+e)*	11873	11787	12236		

	Softwood timber (1,000 m³)	(1995 data)	1995	1996	1997	1998	1999
(g)	Growing stock	264643					
(h)	Net growth + mortality	16748					
	Drain estimate (all sources)	12045					
(h/g)	Growth to growing stock	0.063					
(f/g)	Drain to growing stock		0.045	0.045	0.046		
(f/h)	Drain to growth		0.709	0.704	0.731		
(h-f)/g	Relative surplus		0.018	0.019	0.017		

Typical wood costs				
Pine sawtimber ($/m³)				
Standing	62	49	57	64
Delivered	74	65	81	90

British Columbia - Vancouver

Softwood Sawmill Capacity



Plant Capacity (Thous. Cub. Met.)

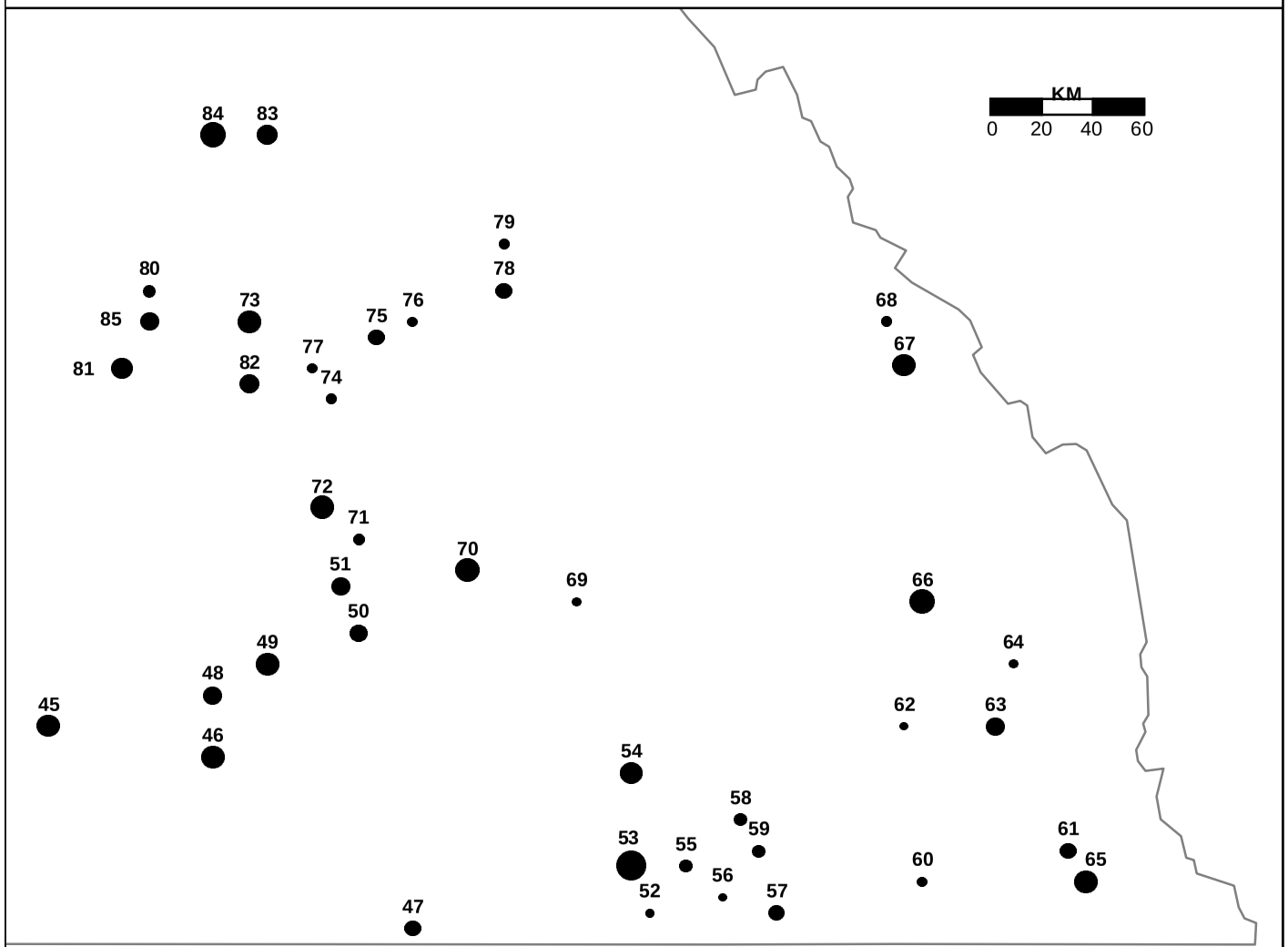
10

355

700

British Columbia - South East

Softwood Sawmill Capacity



Plant Capacity (Thous. Cub. Met.)

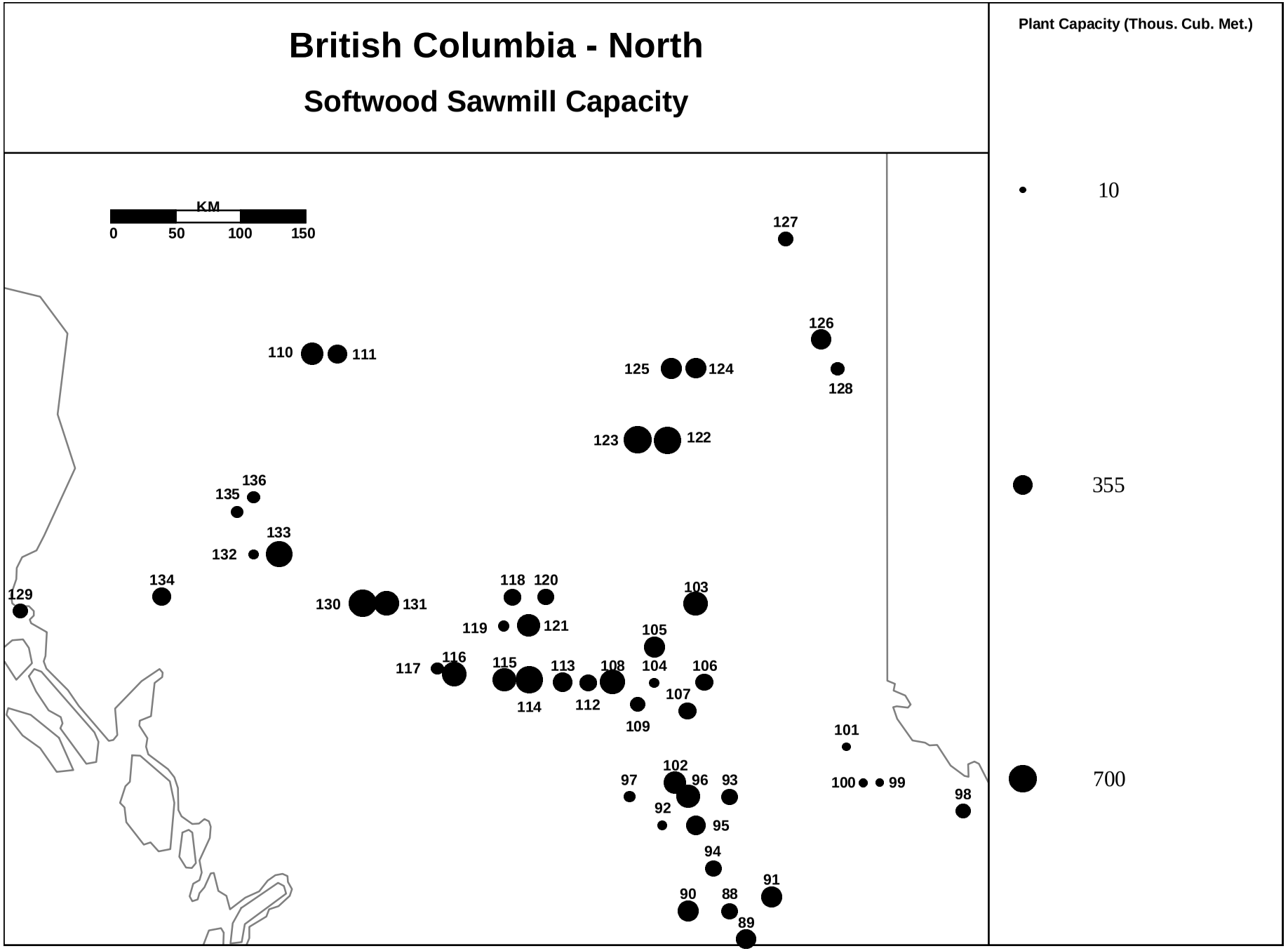
10

355

700

British Columbia - North

Softwood Sawmill Capacity



British Columbia

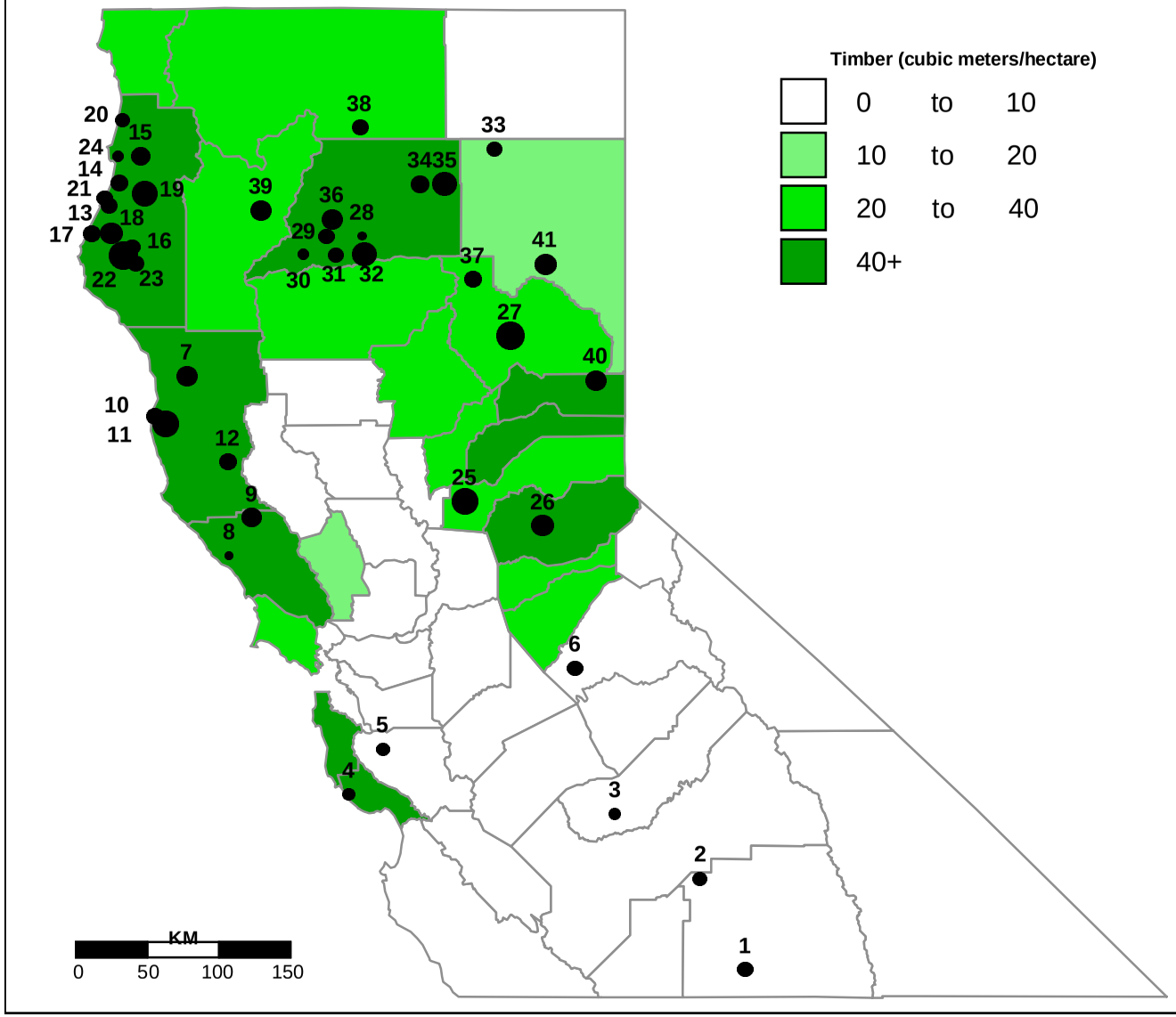
Mill I.D.	Name	Location	Capacity / Production (1,000 m³) 1995	1996	1997	1998	1999
	Evans Forest Prod	Donald	227				
	Inter For Prod	Pitt Meadows	221				
	C GED For Prod	Kitwanga	102	74			
	Campbell River	Campbell River	176	176			
	CIPA Lumber Co	Nanaimo	181	181			
	Howe Sound	Cheekye	28	28			
	Inter For Prod	Fort Langley	227	227			
	Inter For Prod	Port Moody	181	198			
	Jones Ties and Poles	Rossland	17	17			
	Skeena Cellulose	Carnaby	238	238			
	Skeena Cellulose	Terrace	295	142			
	Teeslee For Prod	Tache	51	102			
	TF Specialty	Courtenay	11	11			
	Tolko	N Vancouver	176	193			
	Abfam Enterp.	Port Clements	57	23	7		
	McMillan Bloedell	Powell River	79	108	74		
	Ainsworth	Lilooet	85	85	85		
	Ainsworth	100 Mile House	249	249	249		
	CanFor	Vancouver	238	261	289		
	Tembec	Cranbrook	238	221	221		
	Inter For Prod	Squamish	238	238	221		
	Northwood Pulp&Timbe	Prince George	385	385	385		
	Weyerhaeuser Can	Lumby	187	227	204		
	Weyerhaeuser Can	Merritt	210	210	227		
	Doman	Chemainus	113	96	113	113	
	CanFor	Prince George	255	396	402	402	
86	Ainsworth	Clinton	272	238	255	255	425
120	Apollo	Ft. St. James	238	249	249	249	249
38	Ardrew	Merritt	108	113	85	85	85
40	Aspen Planers	Merritt	170	227	227	227	227
52	Atco	Fruitvale	92	92	17	17	17
63	Atco	Park Siding	142	153	181	181	181
116	Babine Forest P	Burns Lake	527	549	555	555	555
117	Babine Timber	Burns Lake	125	125	136	136	136
16	Bayside	Port Mellon	79	79	79	79	79
69	Box lake Lumber	Nakusp		11	23	23	23
128	CanFor	Taylor	159	159	164	164	164
112	CanFor	Isle Pierre	272	261	266	266	266
107	CanFor	Prince George	374	272	283	283	283
111	CanFor	Bear Lake	323	374	329	329	329
126	CanFor	Fort St. John	362	374	385	385	385
124	CanFor	Chetwynd	385	362	385	385	385
121	CanFor	Ft. St. James	447	430	476	476	476
105	Carrier Lum Co	Prince George	396	396	396	396	396
99	Castle Creek FP (93)	McBride	28	28	34	34	34
125	Chetwynd For Ind	Chetwynd	396	425	396	396	396
37	Coast Mtn Hardwds	Delta	91	102	96	96	96
60	Cooper Creek Cedar	Meadow Creek	34	34	28	28	28
12	Coulson Manufact	Port Alberni	74	57	74	74	74
92	C&C Wood Prod	Quesnel	68	57	57	57	57
36	Delta Cedar	Delta	96	96	119	119	119
6	Doman	Ladysmith	317	300	312	312	312
1	Doman	Cowichan Bay	260	260	340	340	340
9	Doman	Duke Pt./Nanair	419	419	419	419	419
31	Doman	Vancouver	606	612	623	623	623
5	Doman-Western	Ladysmith	248	248	215	215	215
17	Doman-Western	Tahsis	238	334	266	266	266
7	Doman-Western	Nanaimo	215	238	266	266	266
78	Downie Timber	Revelstoke	125	125	125	125	125
102	Dunkley Lumber	Strathnaver	453	453	453	453	453
3	Errington Cedar	Errington	17	23	23	23	23
75	Evans Forest Prod	Malakwa	137	113	136	136	136
62	Fabco (89)	Kimberly	23	28	6	6	6
82	Federated Coop	Canoe	204	204	204	204	204
122	Finlay	Mackenzie	555	600	680	680	680
119	Fort St James	Ft. St. James	74	74	91	91	91
28	Fraser Pulp chips	Surrey	34	34	40	40	40
61	Galloway Lumber	Galloway	125	142	142	142	142
80	Gilbert Smith	Barriere	51	57	57	57	57
19	Goldwood Industries	Richmond	91	91	164	164	164
48	Gorman Bros.	Westbank	170	170	181	181	181
101	Hauer Bros.	Tete Janue	40	40	40	40	40
64	Hilmoe For Pr	Rock Creek	0	23	23	23	23
131	Houston For Prod	Houston	544	566	566	566	566
34	Howe Sound	Vancouver	91	102	113	113	113
26	Inter For Prod	Surrey	227	147	147	147	147
73	Inter For Prod	Adams Lake	346	255	295	295	295
30	Inter For Prod	Hammond/Mapl	312	317	306	306	306
22	Inter For Prod	Coquitlam	351	351	351	351	351
20	Inter For Prod	New Westminst	362	362	430	430	430
59	J H Huscroft	Erickson	62	68	68	68	68
43	J.S. Jones	Boston Bar	340	368	396	396	396
55	Kalesnikoff	Thrums	74	74	79	79	79
136	Kispiox For Prod	New Hazelton	170	113	142	142	142
135	Kitwanga Lumber	Kitwanga	113	113	113	113	113
79	Kozek	Revelstoke	34	34	34	34	34
106	Lakeland Mills Ltd	Prince George	283	283	283	283	283
76	Lakeside Timber	Tappen	34	28	28	28	28
91	Lignum Ltd.	Williams Lake	442	442	396	396	396
27	Lindal Cedar Homes	Surrey	57	51	51	51	51
44	Lytton Lumber	Lytton	91	79	79	79	79
113	L&M Lumber	Vanderhoof	362	278	346	346	346
10	McMillan Bloedell	Port Alberni	119	181	130	130	130
21	McMillan Bloedell	New Westminst	153	159	159	159	159
4	McMillan Bloedell	Chemainus	231	231	181	181	181
8	McMillan Bloedell	Nanaimo	227	249	261	261	261
33	McMillan Bloedell	Vancouver	295	295	295	295	295
11	McMillan Bloedell	Port Alberni	300	300	317	317	317
57	Meadow Creek Cedar	Cooper Creek	113	113	113	113	113
71	Milestone Wood Prod	Armstrong	45	45	45	45	45
24	Mill&Timber Prod	Surrey	147	159	147	147	147
13	Nagaard Sawmills	Port Alberni	23	23	28	28	28
56	North Star Planing	Athalmer	17	17	7	7	7
103	Northwood Pulp&Timbe	Upper Fraser	538	538	538	538	538
130	Northwood Pulp&Timbe	Houston	731	804	850	850	850
74	Paragon Ventures	Grindrod	34	34	34	34	34
47	Pope&Talbot	Grand Forks	227	255	139	139	139
70	Pope&Talbot	Midway	323	323	323	323	323
53	Pope&Talbot	Castlegar	510	487	504	504	504
77	Poplar Creek	Salmon Arm	0	34	28	28	28
14	Primex	Courtenay	159	164	198	198	198
35	Primex	Delta	249	249	283	283	283
89	RFP Timber	Williams Lake	396	396	362	362	362
50	Riverside	Lavington	159	159	164	164	164
49	Riverside	Kelowna	283	295	295	295	295
72	Riverside	Armstrong	249	342	319	319	319
90	Riverside	Williams Lake	244	368	402	402	402
109	Rustad Bros	Prince George	204	193	204	204	204
108	Rustad Bros	Prince George	566	578	566	566	566
68	Seele For Prod	Edgewater	34	34	34	34	34
41	Silvermere For Prod	Ruskin	28	28	28	28	28
132	Skeena Cellulose	Smithers	74	74	74	74	74
98	Slocan	Valemount	215	215	204	204	204
54	Slocan	Slocan	244	283	272	272	272
67	Slocan	Radium Hot Spr	269	269	283	283	283
84	Slocan	Vavenby	346	351	357	357	357
114	Slocan	Engen	680	668	680	680	680
123	Donohue	Mackenzie	821	0	793	793	793
95	Slocan - A	Quesnel	340	351	351	351	351
97	Slocan - B	Quesnel	40	51	108	108	108
23	Stag	Surrey	142	142	153	153	153
118	Stuart lake	Ft. St. James	221	249	272	272	272
29	S&R Sawmills	Surrey/Pt Kells	408	408	408	408	408
127	Tackama For Prod	Fort Nelson	170	181	215	215	215
65	Tembec	Elko	340	278	295	295	295
66	Tembec	Canal Flats	368	323	334	334	334
32	Terminal For Prod	Vancouver	187	181	181	181	181
18	Terminal For Prod	Richmond	238	210	210	210	210
110	The Pas Lumber Co	Bear Lake	464	464	464	464	464
2	TimberWest Forest	Youbou	170	187	215	215	215
15	TimberWest Forest	Campbell River	204	249	249	249	249
51	Tolko	Lavington	181	181	181	181	181
85	Tolko	Louis Creek/Barriere		187	187	187	187
39	Tolko	Merritt	187	204	227	227	236
94	Tolko	Quesnel	238	346	348	350	353
42	Twin River Cedar	Ruskin	40	40	34	34	34
93	Weldwood	Quesnel	170	136	236	236	236
87	Weldwood	100 Mile House	368	368	408	408	408
129	West Fraser Mills	Prince Rupert	153	147	204	204	204
88	West Fraser Mills	Williams lake	249	227	244	244	244
134	West Fraser Mills	Terrace	340	340	323	323	323
115	West Fraser Mills	LeJac	510	510	510	510	510
96	West Fraser Mills	Quesnel	510	510	510	510	510
133	West Fraser Mills	Smithers	379	385	646	646	646
83	Weyerhaeuser Can	Vavenby	198	227	227	227	227
81	Weyerhaeuser Can	Kamloops/Miss	249	260	260	260	260
45	Weyerhaeuser Can	Princeton	283	283	283	283	283
46	Weyerhaeuser Can	Okanogan Falls	261	295	307	307	307
104	Woodland Lumber	Prince George	51	51	68	68	68
58	Wynndel Box & Lum	Wynndel	68	85	68	68	68
25	Yang Mei	Surrey	28	28	23	23	23
100	Zeidler	McBride	57	68	51	51	51

Softwood lumber (1,000 m³)	1995	1996	1997	1998	1999
Number of sawmills	158	160	148	138	136
Estimated capacity	35476	35029	35216	33257	32923
Reported output (Stat. Can.)	32609	32671	31562	29731	
Implied capacity utilization	0.92	0.93	0.90	0.89	
(a) Annual private & provincial allowable cut	68568	68568	68568		
(b) Softwood Roundwood Removals	72331	70041			

Softwood timber (1,000 m³)	1995	1996	1997	1998	1999
(c) Mature growing stock 7500000					
(a/c) Allowable cut to growing stock	0.009	0.009			
(b/c) Drain to growing stock	0.010	0.009			
Typical sawtimber costs (US$/m³)					
Delivered (interior)	57	57	56	48	
Delivered (coast)	96	91	90	77	

Northern California

Softwood Roundwood Inventory and Softwood Sawmill Capacity



Plant Capacity (Thous. Cub. Met.)

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California

Mill I.D.	Name	Location	Capacity / Production (1,000 m³) 1995	1996	1997	1998	1999
	Sierra Pacific Industries	Hayfork	189				
	Hi-Ridge Lumber Co	Yreka	130	179	179	165	
	P&M Cedar Prod Inc	Pioneer	118	118	118	24	
20	Arcata Redwood Co	Orick	94	94	94	94	94
5	Beaver Lumber Co	Santa Clara	90	89	89	89	89
8	Berry's Sawmill Inc	Cazadero	14	17	17	17	17
4	Big Creek Lumber Co	Davenport	52	71	71	71	71
33	Big Valley Lumber Co	Bieber	189	111	111	111	111
34	Big Valley Lumber Co	Burney	227	189	189	189	189
14	Blue Lake Forest Prod	Arcata	113	137	177	177	177
28	Butler Forest Prod	Redding	21	21	21	21	21
37	Collins Pine Co	Chester	177	177	177	177	177
18	Eel River Sawmills Inc	Fortuna	283	302	283	283	283
23	Eel River Sawmills Inc	Redcrest	177	153	153	71	71
11	Georgia-Pacific Corp	Fort Bragg	472	439	401	401	401
7	Harwood Prod	Branscomb	189	212	236	236	236
21	Louisiana-Pacific Corp	Samoa	153	142	142	142	142
24	Louisiana-Pacific Corp	Trinidad	47	47	47	47	47
12	Louisiana-Pacific Corp	Ukiah		83	165	165	165
10	Louisiana Pacific Corp	Fort Bragg	165	165	165	165	165
3	Norby Lumber Co Inc	Madera	57	57	57	57	57
16	Pacific Lumber Co	Carlotta	142	142	142	142	142
22	Pacific Lumber Co	Scotia	472	472	472	472	472
17	Pacific Lumber Co	Fortuna	142	236	165	165	165
38	P&M Cedar Prod Inc	McCloud	149	149	149	149	149
31	P&M Cedar Prod Inc	Anderson	118	118	118	118	118
9	Redwood Empire	Cloverdale	212	212	224	224	224
13	Schmidbauer Lumber Co	Eureka	127	142	146	146	146
2	Sequoia Forest Industries	Dinuba	92	92	94	94	94
36	Sierra Pacific Industries	Shasta Lake	222	222	236	236	236
35	Sierra Pacific Industries	Burney	304	304	328	328	328
40	Sierra Pacific Industries	Loyalton	208	208	241	241	241
1	Sierra Pacific Industries	Terra Bella	132	132	132	132	132
32	Sierra Pacific Industries	Anderson	330	330	330	330	330
25	Sierra Pacific Industries	Lincoln	312	312	399	401	401
15	Sierra Pacific Industries	Arcata	205	205	205	205	205
6	Sierra Pacific Industries	Chinese Camp	113	113	142	142	142
41	Sierra Pacific Industries	Susanville	257	257	264	264	264
26	Sierra Pacific Industries	Camino	160	276	283	283	283
27	Sierra Pacific Industries	Quincy	352	352	463	448	448
19	Simpson Timber Co	Korbel	512	472	385	385	385
30	Sound Stud	Anderson	47	52	52	52	52
39	Trinity River Lumber Co	Weaverville	201	271	236	236	236
29	Wisconsin-California FP Inc	Redding	118	142	142	142	142

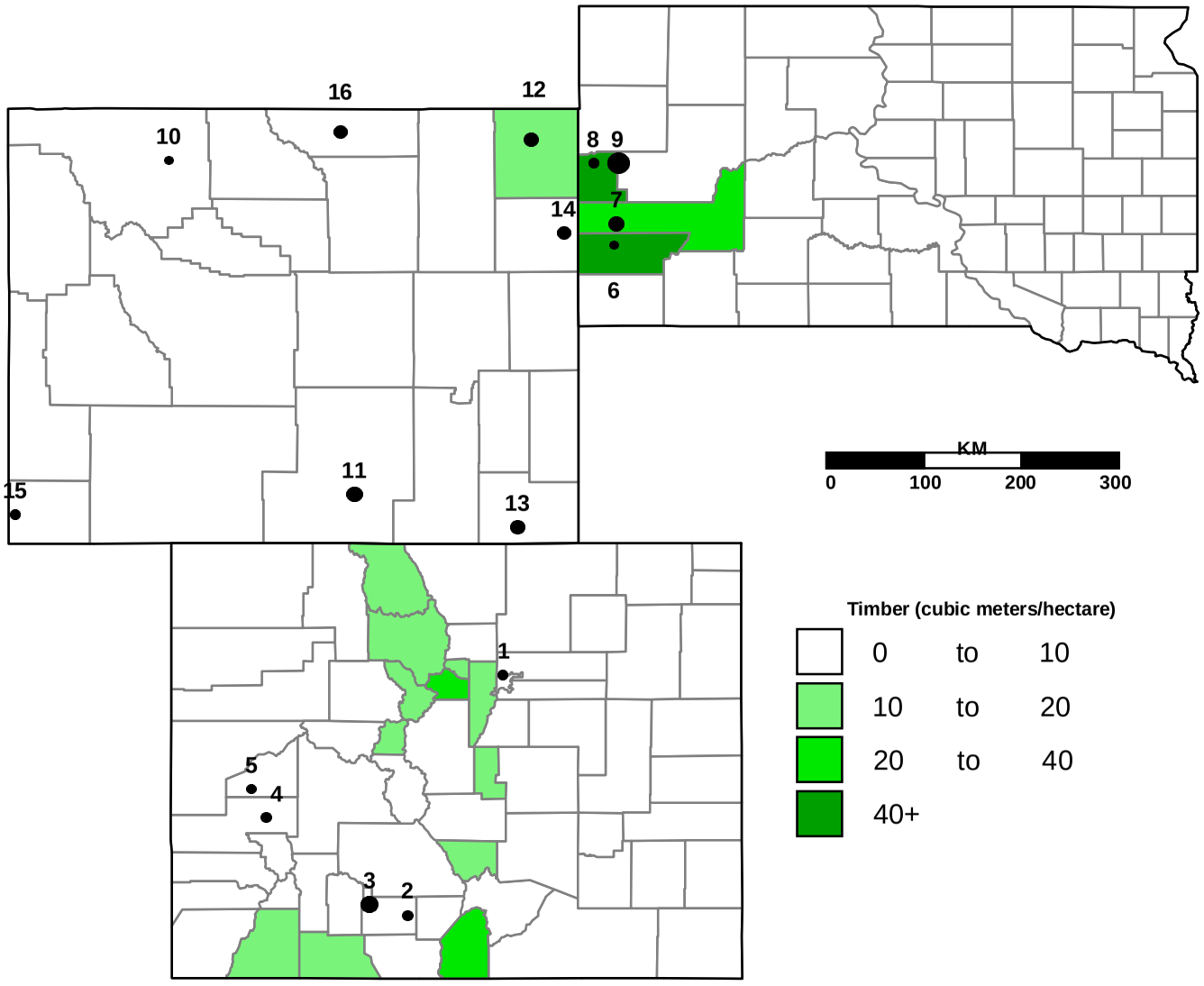
	Softwood lumber (1,000 m³)	1995	1996	1997	1998	1999
	Number of sawmills	43	43	43	43	41
	Estimated capacity	7885	8013	8240	8037	7848
(a)	Reported output (U.S. Census)	7748	7797	8328		
	Implied capacity utilization	0.98	0.97	1.01		
	Softwood plywood					
(b)	Estimated capacity	175	175	175	175	
	Reported output (A.P.A.-Eng.Wd.Assoc.)	na	na	na		
	OSB					
(c)	Estimated capacity					
	Reported output (A.P.A.-Eng.Wd.Assoc.)					
(d)	Particleboard/MDF (Composite Panel Assoc)	800	800	797	823	
(e)	Softwd. pulpwood receipts(A.Pulpwd.A.)	1688	1307	997		
(f)	Approximate drain *(2a+b+d+e)*	18159	17877	18626		

	Softwood timber (1,000 m³)	(1992 data)	1995	1996	1997	1998	1999
(g)	Growing stock (ex federal)	529251					
(h)	Net growth + mortality (ex fed)	15523					
	Drain estimate (all sources)	25108					
(h/g)	Growth to growing stock	0.029					
(f/g)	Drain to growing stock		0.034	0.034	0.035		
(f/h)	Drain to growth		1.17	1.15	1.20		
(h-f)/g	Relative surplus		-0.005	-0.004	-0.006		

Typical wood costs					
Softwood sawtimber ($/m³)					
Standing (State owned)	81	87	85	na	
Delivered	106	112	110	na	

Colorado, South Dakota, and Wyoming

Softwood Roundwood Inventory and Softwood Sawmill Capacity



Plant Capacity (Thous. Cub. Met.)

0

350

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Colorado/S. Dakota/Wyoming

Mill I.D.	Name	Location	Capacity / Production (1,000 m³) 1995	1996	1997	1998	1999
10	Cody Lumber Co	Cody, WY	24	24	24	24	24
7	Continental Lumber Co	Hill City, SD	106	106	106	106	106
5	Delta Timber Co	Lazear, CO	18	18	18	18	18
4	Intermountain For Prod	Montrose, CO	35	35	35	35	35
11	Louisiana-Pacific	Saratoga, WY	118	118	118	118	118
8	McLaughlin Sawmill Co	Spearfish, SD	24	24	24	24	24
12	Neimann Sawmill Inc	Hulett, WY	85	85	85	85	85
13	Neimann Sawmill Inc	Cheyenne, WY	94	94	94	94	94

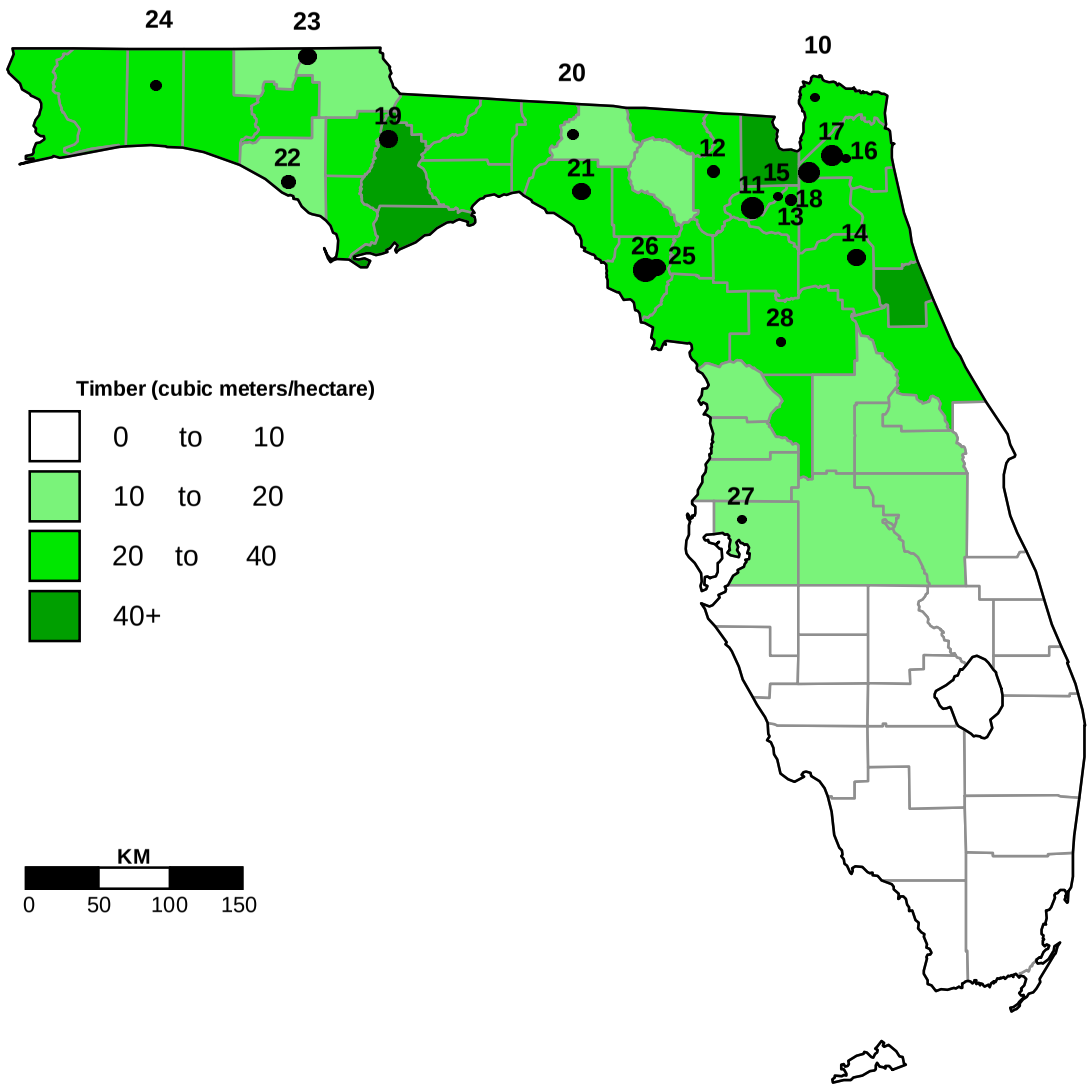
	Softwood lumber (1,000 m³)	1995	1996	1997	1998	1999
	Number of sawmills	16	16	16	16	16
	Estimated capacity	1152	1148	1157	1157	1157
(a)	Reported output (U.S. Census)	1138	1133	1133		
	Implied capacity utilization	0.99	0.99	0.98		
	Softwood plywood					
	Estimated capacity					
(b)	Reported output (A.P.A.-Eng.Wd.Assoc.)					
	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		
(f)	Approximate drain *(a+.4c+e)*	2889	2884	2884		

Mill I.D.	Name	Location	Capacity / Production (1,000 m³) 1995	1996	1997	1998	1999
2	Pleasant Logging & Milling	Monte Vista, CO	30	30	30	30	30
14	Pope & Talbot	Newcastle, WY	71	71	76	76	76
9	Pope & Talbot	Spearfish, SD	266	260	260	260	260
1	Reed Mill & Lumber Co	Denver, CO	26	26	26	26	26
6	R.E. Linde Sawmills Inc	Custer, SD	12	12	12	12	12
15	South & Jones	Evanston, WY	24	24	24	24	24
3	U.S Forest Industries Inc	South Fork, CO	148	149	153	153	153
16	Wyoming Sawmills Inc	Sheridan, WY	74	74	74	74	74

	Softwood timber (1,000 m³)	(1992 data)	1995	1996	1997	1998	1999
(g)	Growing stock	694158					
(h)	Net growth + mortality	14799					
	Drain estimate (all sources)	2831					
(h/g)	Growth to growing stock	0.021					
(f/g)	Drain to growing stock		0.004	0.004	0.004		
(f/h)	Drain to growth		0.195	0.195	0.195		
(h-f)/g	Relative surplus		0.017	0.017	0.017		
	Typical wood costs						
	Softwood sawtimber ($/m³)						
	Standing		35	21	27	na	
	Delivered		58	44	50	na	

Florida

Softwood Roundwood Inventory and Softwood Sawmill Capacity



Plant Capacity (Thous. Cub. Met.)

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Florida

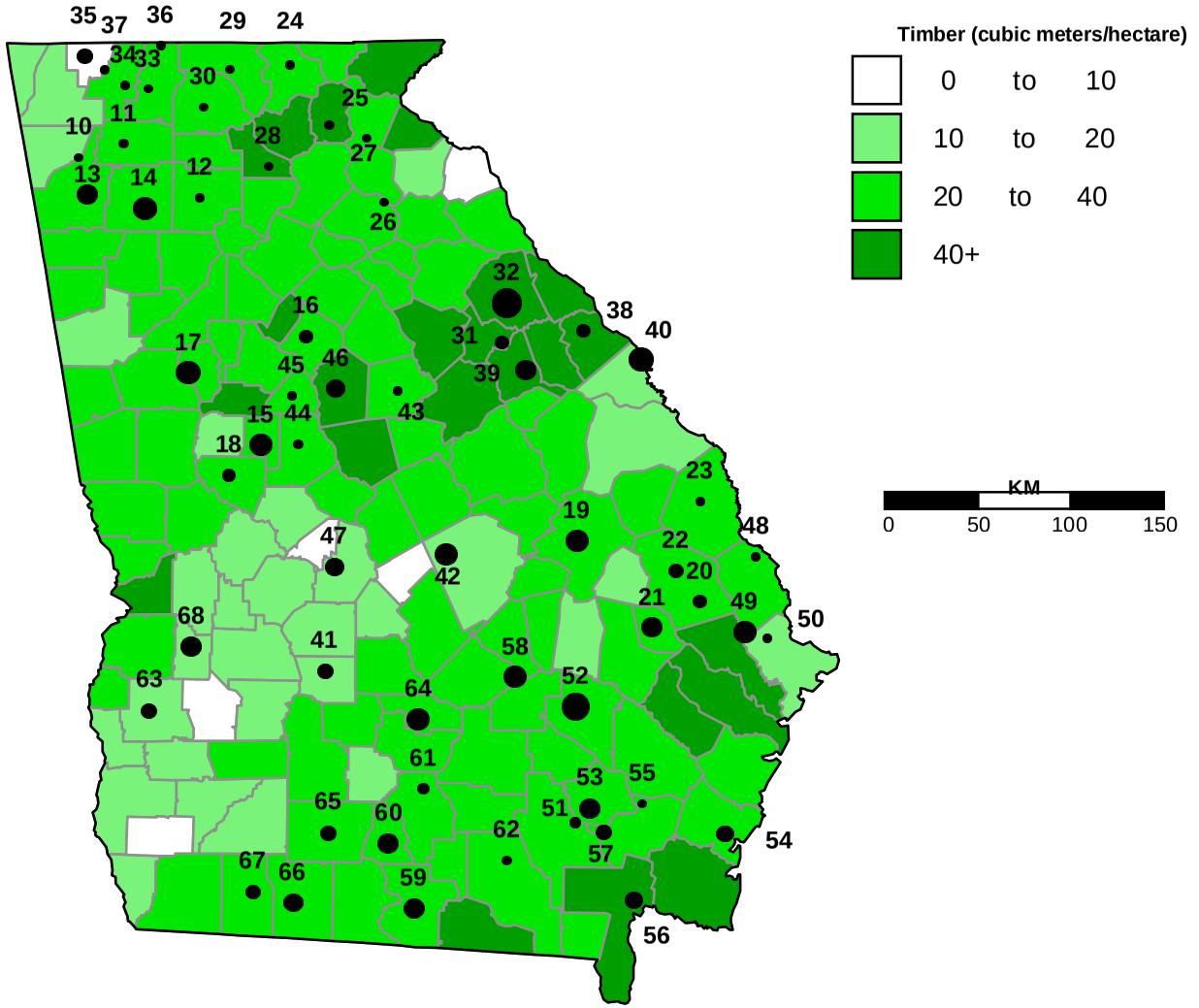
Mill I.D.	Name	Location	Capacity / Production (1,000 m³) 1995	1996	1997	1998	1999
17	Champion International Corp	Whitehouse	189	196	203	210	210
12	Daniels Lumber Inc	Lake City	47	47	47	47	47
24	Fleming Lumber Co	Crestview	27	27	27	27	27
10	Franklin Lumber Co	Hilliard	6	6	6	6	6
26	Georgia-Pacific Corp	Cross City	127	184	201	271	271
14	Georgia-Pacific Corp	Palatka	106	118	118	123	123
11	Gilman Building Products Co	Lake Butler	224	222	222	224	224
18	Gilman Building Products Co	Maxville	208	212	210	208	208
21	Gilman Building Products Co	Perry	130	130	130	130	130
22	Louisiana-Pacific Corp	Westbay	74	71	83	83	83
16	Mo-Wood Products Inc	Jacksonville	9	9	9	9	9
19	North Florida Lumber Co	Bristol	135	135	146	146	146
28	Ocala Lumber Sales Co	Ocala	17	17	17	17	17
15	Pride of Florida	Raiford	8	8	8	8	8
27	Robbins Manufacturing Co	Tampa	8	8	8	8	8
20	Sherrod Lumber Co Inc	Greenville	30	30	30	30	30
23	Stone Forest Industries	Graceville	142	142	142	142	142
25	Suwannee Lumber Mfg Co	Cross City	83	130	130	130	130
13	Tatum Bros Lumber Co	Lawtey	33	33	33	33	33

	Softwood lumber (1,000 m³)	1995	1996	1997	1998	1999
	Number of sawmills	19	19	19	19	19
	Estimated capacity	1603	1725	1770	1852	1852
(a)	Reported output (U.S. Census)	1671	1796	1874		
	Implied capacity utilization	1.04	1.04	1.06		
	Softwood plywood					
	Estimated capacity	456	503	503	503	503
(b)	Reported output (A.P.A.-Eng.Wd.Assoc.)	483	489	508		
	OSB					
(c)	Estimated capacity					
	Reported output (A.P.A.-Eng.Wd.Assoc.)					
(d)	Particleboard/MDF (Composite Panel Assoc)	30	30	30	30	
(e)	Softwd. pulpwood receipts(A.Pulpwd.A.)	11388	11264	10834		
(f)	Approximate drain *(a+b+c+d+e)*	13572	13579	13246		

	Softwood timber (1,000 m³)	(1995 data)	1995	1996	1997	1998	1999
(g)	Growing stock	266980					
(h)	Net growth + mortality	16567					
	Drain estimate (all sources)	13368					
(h/g)	Growth to growing stock	0.062					
(f/g)	Drain to growing stock		0.051	0.051	0.050		
(f/h)	Drain to growth		0.819	0.820	0.800		
(h-f)/g	Relative surplus		0.011	0.011	0.012		
	Typical wood costs						
	Pine sawtimber ($/m³)						
	Standing		60	51	65	66	
	Delivered		93	82	85	84	

Georgia

Softwood Roundwood Inventory and Softwood Sawmill Capacity



Georgia

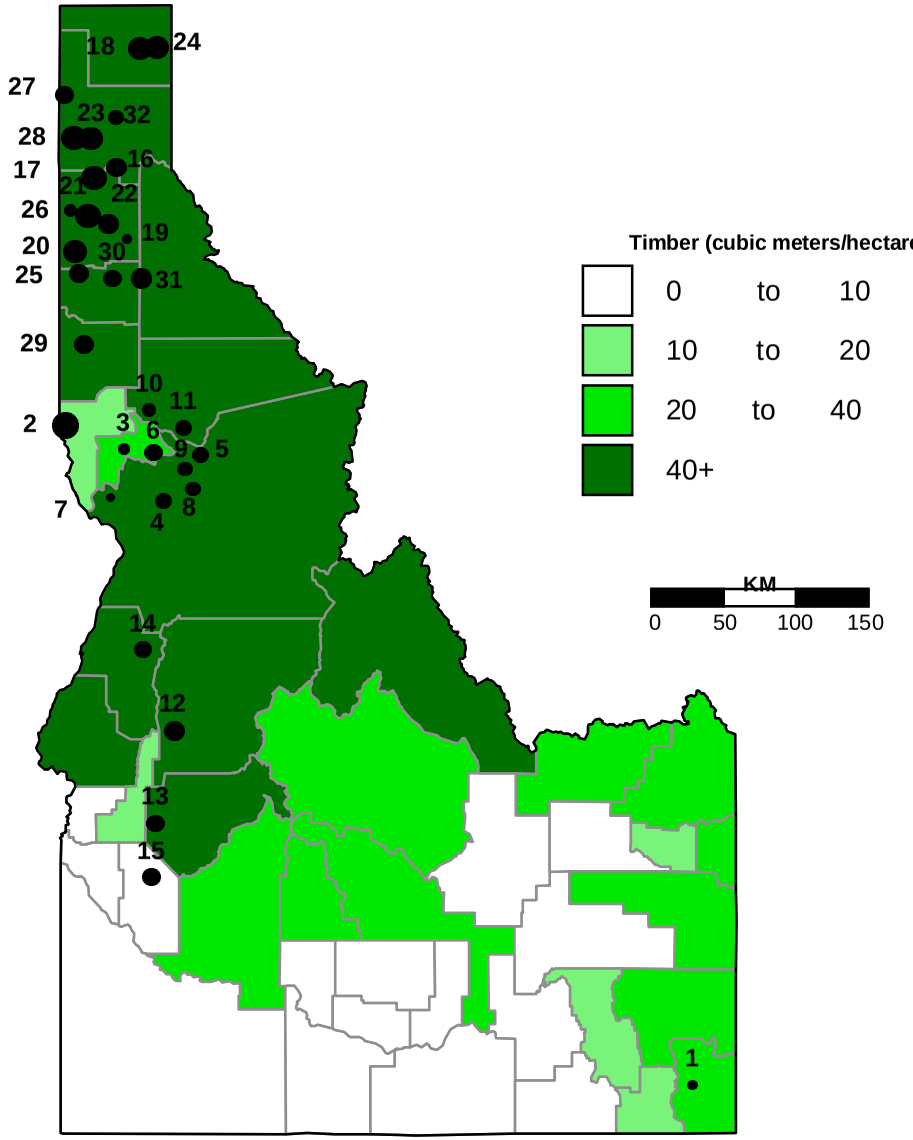
Mill I.D.	Name	Location	Capacity / Production (1,000 m³) 1995	1996	1997	1998	1999
	Louisiana-Pacific Corp	Statesboro	59	59	59	59	
	Louisiana-Pacific Corp	Eatonton	148	142	142	148	
38	Babb Lumber Co Inc	Ringgold	104	94	106	104	104
36	Baldridge Bros Inc	Dalton	5	5	5	5	5
73	Balfour Lbr Co Inc	Thomasville	83	83	83	83	83
71	Beadles Lumber Co	Moultrie	97	97	97	97	97
69	Burgin Lumber Co Ltd	Cuthbert	76	76	76	90	90
34	Burt Lumber Co	Washington	54	59	66	66	66
57	Champion International Corp	Waycross	24	26	33	33	33
23	Claude Howard Lumber Co	Statesboro	85	90	90	85	85
75	Columbus Lbr Co Inc	Columbus	15	15	15	15	15
31	Cowart Brothers Lumber	Dawsonville	7	7	7	7	7
66	Del-Cook Lumber Co	Adel	201	201	201	201	201
61	Edgy Planing Mill Inc	Brunswick	9	9	9	9	9
32	Ellijay Lbr & Wood Preserving	Ellijay	7	7	8	7	7
24	Evans Lbr Co, Inc	Sylvania	12	12	12	12	12
51	Frank G. Lake Lbr Co	Monticello	17	17	17	17	17
60	Georgia-Pacific Corp	Sterling	170	142	142	137	137
52	Georgia-Pacific Corp	Monticello	177	165	175	177	177
22	Georgia-Pacific Corp	Claxton	146	142	142	201	201
44	Georgia-Pacific Corp	Warrenton	177	177	189	201	201
17	Georgia Lumber Co	Covington	73	73	73	73	73
29	Georgia Mountain Timber Inc	Cornelia	6	6	6	6	6
59	Gilman Building Prod Co	Blackshear	201	194	203	201	201
70	Gilman Building Prod Co	Fitzgerald	241	245	241	241	241
48	Gilman Building Prod Co	Dudley	243	245	243	243	243
46	Griffin-Porter Lumber Co	Cochran	37	37	37	37	37
47	Griffin Lumber Co	Cordele	94	94	94	94	94
40	Guess Brothers Lbr Co	Tunnel Hill	13	13	13	13	13
49	Hallman Wood Prod Inc	Eatonton	16	16	16	16	16
27	Hogan Lumber Co	Cleveland	16	16	16	16	16
11	Hogan & Storey Wood Prod	Armuchee	18	18	18	18	18
67	Hubert Moore Lumber Co Inc	Alapaha	42	42	42	42	42
14	Inland Container	Rome	201	201	201	201	201
45	International Paper Corp	Augusta	307	309	307	307	307
35	International Paper Corp	Washington	413	413	439	439	439
30	Irvin Lumber Co	Cornelia	7	7	7	7	7
13	J. P. Haynes Lumber Co Inc	Canton	14	14	14	14	14
54	J. W. Exley Lumber Co	Clyo	12	12	12	12	12
19	Keadle Lbr Enterprises Inc	Thomaston	61	61	61	61	61
65	Langdale Forest Prod Co	Valdosta	260	271	260	260	260
68	Little Suwannee Lbr Co Inc	Homerville	20	20	20	20	20
18	Mead Southern Wood Prod	Greenville	71	255	281	281	281
72	Metcalf Lbr Co Inc	Thomasville	177	236	236	177	177
26	Mize Lumber Co Inc	Clarkesville	41	35	35	35	35
28	Mount Yonah Lumber Co	Cleveland	19	19	19	19	19
41	Pollard Lumber Co	Appling	81	81	81	81	81
43	Rabun Lumber Co	Thomson	7	7	7	7	7
64	Rayonier	Lumber City	236	248	260	260	260
20	Rayonier	Swainsboro	184	194	260	260	260
58	Rayonier	Baxley	342	342	342	378	378
56	Shearouse Lumber Co	Pooler	17	17	17	17	17
33	Sparks Lumber Co	Ellijay	11	11	11	11	11
39	Sutton Lumber Co	Tennga	14	14	14	14	14
12	S. I. Storey Lumber Co Inc	Armuchee	30	30	30	30	30
10	S. L. Miller & Sons Lumber	Armuchee	11	11	11	11	11
15	Temple-Inland Forest Prod	Rome	172	271	271	271	271
42	The Timbermen Inc	Camak	6	6	6	6	6
53	Tolleson Lumber Co Inc	Perry	106	125	165	165	165
74	Tolleson Lumber Co Inc	Preston	195	195	194	195	195
62	Union Camp Corp	Folkston	132	163	153	153	153
55	Union Camp Corp	Meldrim	248	253	253	248	248
63	Varn Wood Prod	Hoboken	94	94	94	94	94
50	Vaughn Lumber Co	Forsyth	21	21	21	21	21
25	VLC Inc	Clarkesville	18	18	18	18	18
16	Weyerhaeuser Co	Barnesville	212	224	253	248	248
37	W. D. Cline & Sons Lumber Co	Dalton	12	12	12	12	12
21	W. M. Sheppard Lumber Co	Brooklet	64	64	64	64	64

	Softwood lumber (1,000 m³)	1995	1996	1997	1998	1999
	Number of sawmills	68	68	68	68	66
	Estimated capacity	6485	6874	7098	7144	6938
(a)	Reported output (U.S. Census)	5933	6212	6584		
	Implied capacity utilization	0.91	0.90	0.93		
	Softwood plywood					
	Estimated capacity	1039	1058	1058	1058	1058
(b)	Reported output (A.P.A.-Eng.Wd.Assoc.)	1039	879	888		
	OSB					
	Estimated capacity	1001	979	1009	1022	1035
(c)	Reported output (A.P.A.-Eng.Wd.Assoc.)	883	973	937		
(d)	Particleboard/MDF (Composite Panel Assoc)	581	651	732	729	
(e)	Softwd. pulpwood receipts(A.Pulpwd.A.)	17153	16907	18116		
(f)	Approximate drain *(a+b+c+d+e)*	25589	25621	27257		

	Softwood timber (1,000 m³)	(1992 data)	1995	1996	1997	1998	1999
(g)	Growing stock	441901					
(h)	Net growth + mortality	27381					
	Drain estimate (all sources)	27368					
(h/g)	Growth to growing stock	0.062					
(f/g)	Drain to growing stock		0.058	0.058	0.062		
(f/h)	Drain to growth		0.935	0.936	0.995		
(h-f)/g	Relative surplus		0.004	0.004	0.000		
	Typical wood costs						
	Pine sawtimber ($/m³)						
	Standing		70	63	72	77	
	Delivered		87	84	91	97	

Idaho

Softwood Roundwood Inventory and Sawmill Capacity



Plant Capacity (Thous. Cub. Met.)

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700

Idaho

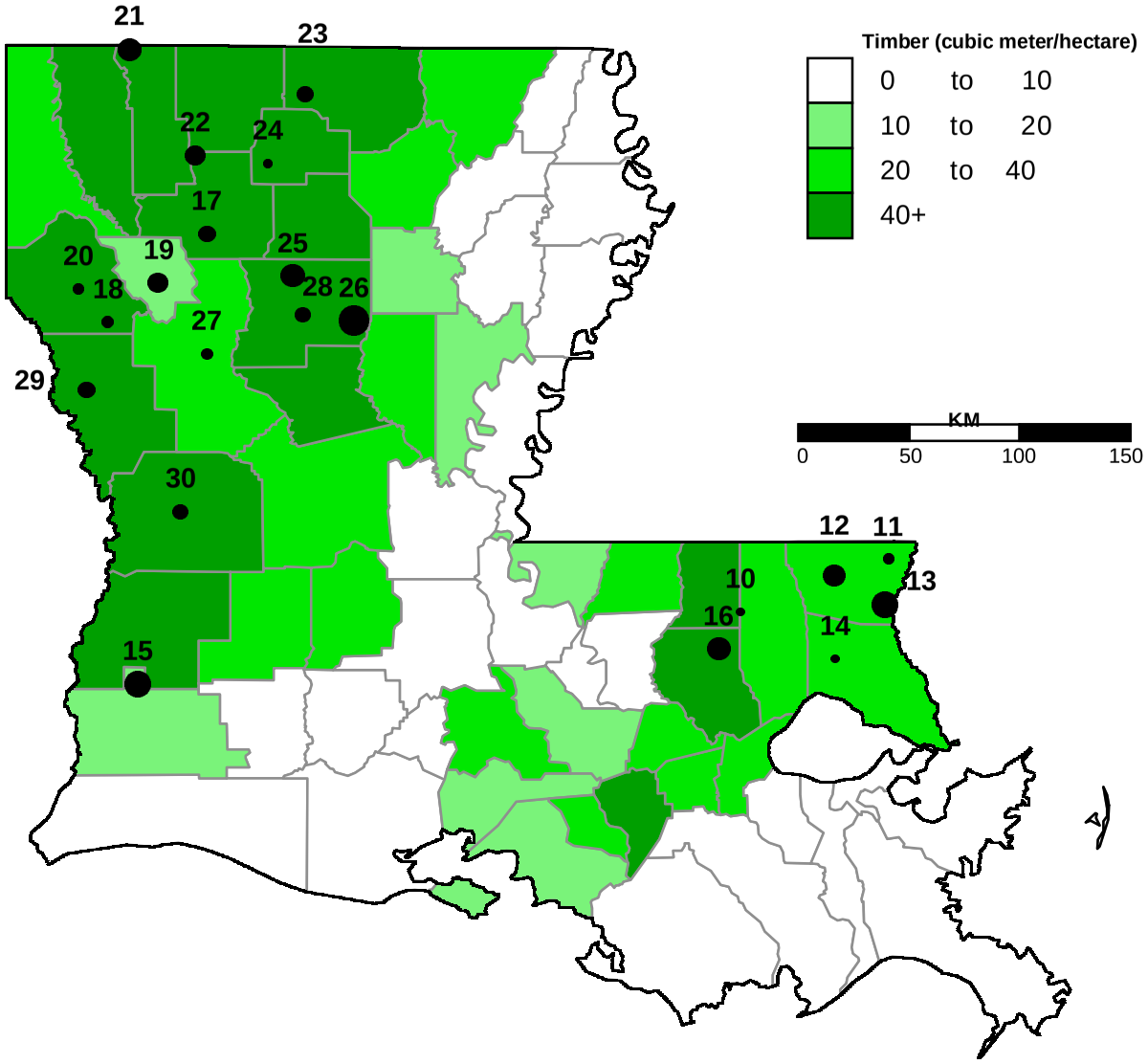
Mill I.D.	Name	Location	Capacity / Production (1,000 m³) 1995	1996	1997	1998	1999
	Channel Lumber Co	Craigmont	28	28			
	Crown Pacific	Old Town	94	175			
	Crown Pacific	Sandpoint	71	71	35		
	Gem State Lumber Co	Julietta	42	24	24		
	Producers Lumber Co	Boise	38	38	19		
	Rayonier	Plummer	165	165	165		
29	Bennett Lumber Prod Inc	Princeton	83	170	170	170	170
13	Boise Cascade Corp	Horseshoe Be	120	132	142	142	142
12	Boise Cascade Corp	Cascade	158	198	189	189	189
3	Camas Prairie Lumber	Craigmont	28	28	35	35	35
32	Ceda-Pine Veneer Inc	Samuels	87	85	85	85	85
8	Clearwater Forest Ind Inc	Kooskia	71	71	71	71	71
15	Croman Corp	Boise	165	142	153	153	153
18	Crown Pacific	Bonners Ferry	170	153	163	236	236
20	Crown Pacific	Coeur d'Alene	201	201	236	236	236
5	Empire Lumber Co	Kamiah	106	94	94	94	94
14	Evergreen Forest Prod Inc	New Meadow	123	123	123	123	123
22	Idaho Forest Industries Inc	Coeur d'Alene	142	182	182	182	182
21	Idaho Forest Industries Inc	Coeur d'Alene	283	283	304	304	304
28	Idaho Forest Industries Inc	Priest River	227	227	283	283	283
26	Idaho Veneer Co	Post Falls	35	35	47	47	47
1	Jensen Lumber Co Inc	Ovid	17	19	19	19	19
27	J.D. Lumber, Inc	Priest River	47	118	153	153	153
10	Konkolville Lumber Co Inc	Orofino	47	45	57	57	57
24	Louisiana-Pacific Corp	Moyie Springs	245	245	245	245	245
17	Louisiana-Pacific Corp	Chilco (Athol)	170	177	281	281	281
16	Merritt Bros. Lumber Co	Athol	177	177	177	177	177
25	Plummer Wood Prod	Plummer	177	177	177	177	177
31	Potlatch Corp	Saint Maries	198	201	203	203	203
2	Potlatch Corp	Lewiston	248	323	333	333	333
7	Poxleitner Sawmill	Keuterville	9	9	9	9	9
30	Regulus Stud Mill Inc	Saint Maries	130	130	130	130	130
23	Riley Creek Lumber Co	Laclede	243	255	255	248	248
9	Shearer Lumber Prod	Kooskia	78	78	78	78	78
4	Shearer Lumber Prod	Grangeville	78	78	94	94	94
6	Three Rivers Timber Inc	Kamiah	130	130	130	130	130
11	Timberline Inc	Weippe	71	71	101	94	94
19	Whiteman Lumber Co Inc	Cataldo	14	14	14	14	14

	Softwood lumber (1,000 m³)	1995	1996	1997	1998	1999
	Number of sawmills	38	38	36	32	32
	Estimated capacity	4518	4871	4977	4793	4793
(a)	Reported output (U.S. Census)	3995	4326	4857		
	Implied capacity utilization	0.88	0.89	0.98		
	Softwood plywood					
	Estimated capacity	450	436	436	436	436
(b)	Reported output (A.P.A.-Eng.Wd.Assoc.)	426	415	380		
	OSB					
(c)	Estimated capacity	133	133			
	Reported output (A.P.A.-Eng.Wd.Assoc.)	na	na			
(d)	Particleboard/MDF (Composite Panel Assoc)	129	129	129	129	
(e)	Softwd. pulpwood receipts(FPL estimate)	2230	2387	2137		
(f)	Approximate drain *(a+b+c+d+e)*	6913	7390	7503		

	Softwood timber (1,000 m³)	(1992 data)	1995	1996	1997	1998	1999
(g)	Growing stock (ex FS)	251873					
(h)	Net growth + mortality (ex FS)	8929					
	Drain estimate (all sources)	9346					
(h/g)	Growth to growing stock	0.035					
(f/g)	Drain to growing stock		0.027	0.029	0.030		
(f/h)	Drain to growth		0.77	0.83	0.84		
(h-f)/g	Relative surplus		0.008	0.006	0.006		
	Typical wood costs						
	Pine sawtimber (State owned, $/m³)						
	Standing		54	36	71	64	
	Delivered		78	61	96	89	

Louisiana

Softwood Roundwood Inventory and Softwood Sawmill Capacity



Plant Capacity (Thous. Cub. Met.)

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Louisiana

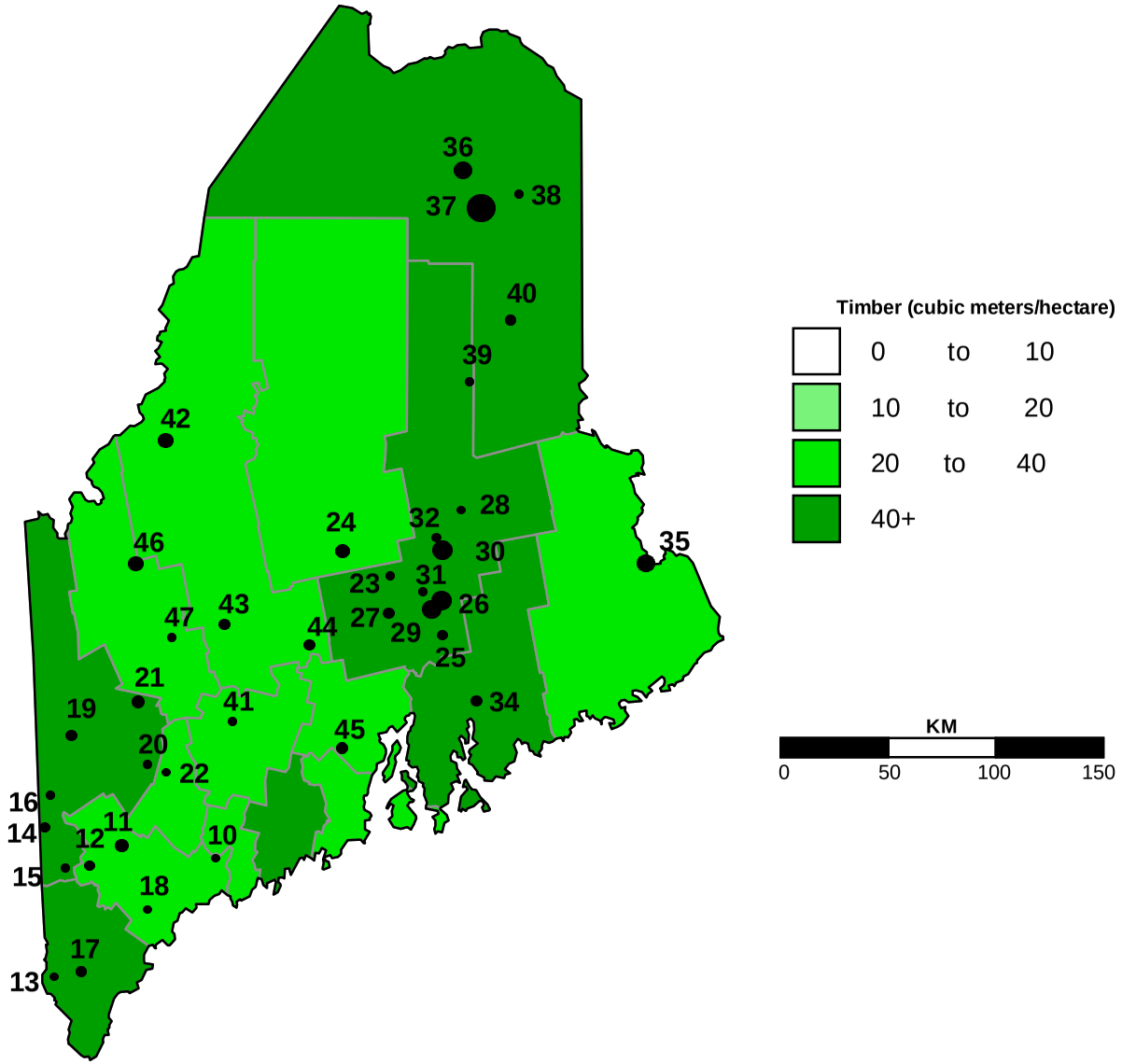
Mill I.D.	Name	Location	Capacity / Production (1,000 m³) 1995	1996	1997	1998	1999
	Boise Cascade Corp	Fisher	189	203	203	212	
18	Almond Bros Lumber Co	Coushatta	54	50	52	54	54
11	Angie Lumber Co Inc	Angie	35	35	35	35	35
10	Conway Guiteau Lumber Co	Amite	8	8	8	8	8
19	Hood Industries Inc	Coushatta	201	186	186	201	201
17	Hunt Lumber Co Inc	Castor	130	130	130	130	130
21	International Paper Corp	Springhill	260	262	271	271	271
13	Joe N. Miles & Sons Inc	Bogalusa	354	354	354	354	354
30	Leesville Lumber Co Inc	Leesville	90	87	85	90	90
23	Louisiana-Pacific Corp	Bernice	118	118	118	118	118
28	L. L. Brewton Lumber Co Inc	Winnfield	106	106	106	106	106
24	Mid-States Wood Preservers	Simsboro	17	17	17	17	17
20	Mims Lumber Co Inc	Mansfield	35	35	35	35	35
27	PBS Lumber Mfg Inc	Winnfield	42	42	42	42	42
26	Plum Creek Timber Co	Joyce	236	253	260	448	448
14	Ryan Forest Prod	Covington	5	5	5	5	5
15	Temple-Inland	Dequincy	323	328	330	342	342
12	Weyerhaeuser Co	Bogalusa	212	236	236	236	236
16	Weyerhaeuser Co	Holden	255	276	286	286	286
29	Willamette Industries Inc	Zwolle	118	127	120	130	130
22	Willamette Industries Inc	Taylor				28	212
25	Willamette Industries Inc	Dodson	146	151	175	281	281

	Softwood lumber (1,000 m³)	1995	1996	1997	1998	1999
	Number of sawmills	21	21	21	22	21
	Estimated capacity	2935	3011	3056	3431	3403
(a)	Reported output (U.S. Census)	2374	2414	2523		
	Implied capacity utilization	0.81	0.80	0.83		
	Softwood plywood					
	Estimated capacity	2446	2583	2681	2495	2371
(b)	Reported output (A.P.A.-Eng.Wd.Assoc.)	2300	2473	2177		
	OSB					
	Estimated capacity	350	527	584	544	566
(c)	Reported output (A.P.A.-Eng.Wd.Assoc.)	344	481	587		
(d)	Particleboard/MDF (Composite Panel Assoc)	477	477	516	504	
(e)	Softwd. pulpwood receipts(A.Pulpwd.A.)	13489	13296	14113		
(f)	Approximate drain *(a+b+.3c+d+e)*	18754	18818	19523		

	Softwood timber (1,000 m³)	(1992 data)	1995	1996	1997	1998	1999
(g)	Growing stock	282863					
(h)	Net growth + mortality	17196					
	Drain estimate (all sources)	16621					
(h/g)	Growth to growing stock	0.061					
(f/g)	Drain to growing stock		0.066	0.067	0.069		
(f/h)	Drain to growth		1.091	1.094	1.135		
(h-f)/g	Relative surplus		-0.01	-0.01	-0.01		
	Typical wood costs						
	Pine sawtimber ($/m³)						
	Standing		64	54	72	69	
	Delivered		78	67	84	94	

Maine

Softwood Roundwood Inventory and Softwood Sawmill Capacity



Plant Capacity (Thous. Cub. Met.)

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355

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Maine

Mill I.D.	Name	Location	Capacity / Production (1,000 m³) 1995	1996	1997	1998	1999
14	Bailey Manufacturing Co	Fryeburg	24	24	24	24	24
38	Beaulieu Bros. Lumber Inc	Chapman	17	17	17	17	17
26	Champion International Corp	Costigan	177	201	191	194	194
30	Champion International Corp	Passadumkeag	201	203	198	201	201
32	Cold Stream Lumber Co	West Enfield	21	21	21	21	21
47	Cousineau Inc	Strong	12	12	12	12	12
34	Crobb Box Co	Ellsworth	38	38	38	38	38
35	Georgia-Pacific	Woodland	149	132	156	156	156
13	Great Brook Lumber Co	Lebanon	9	8	9	9	9
40	Guy Friel & Sons Inc	Smyrna Mills	35	35	35	35	35
41	Hammond Lumber Co	Belgrade	19	12	12	12	12
11	Hancock Lumber Co Inc	Casco	73	73	73	73	73
44	Hancock Lumber Co Inc	Pittsfield	42	38	38	38	38
28	Haskel Lumber Inc	Lincoln	9	9	9	9	9
18	Hillside Lumber	Westbrook	5	5	5	5	5
29	James River Timber Corp	Old Town	210	189	189	189	189
36	J. D. Irving	Ashland	142	156	153	153	153
21	J. D. Irving	Dixfield	47	61	118	201	201
37	J. Paul Levesque & Sons, Inc	Ashland	330	330	378	378	378

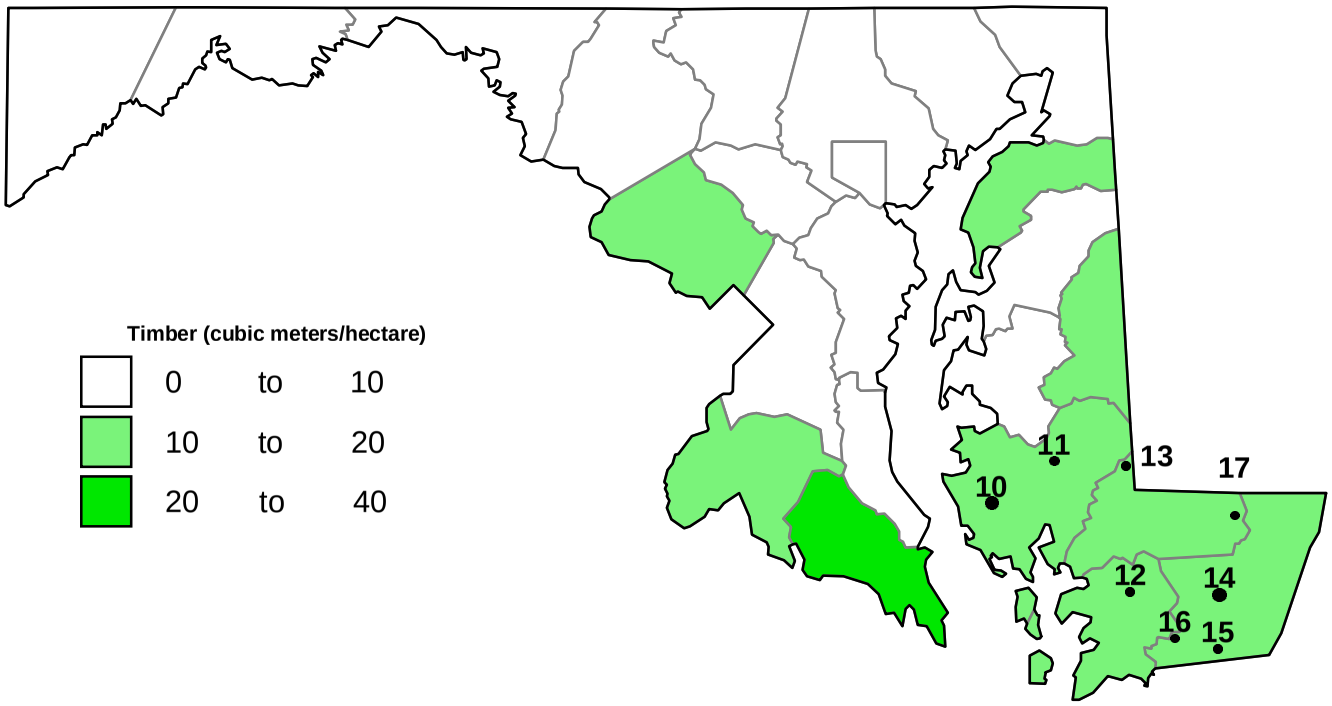
Mill I.D.	Name	Location	Capacity / Production (1,000 m³) 1995	1996	1997	1998	1999
17	Lavalley Lumber	Sanford	31	33	35	35	35
12	Limington Lumber Co	East Baldwin	21	24	24	24	24
16	Lovell Lumber Co Inc	Lovell	12	15	15	15	15
10	Marriner Lumber Co	Brunswick	9	9	9	9	9
22	Moose Creek Lumber Co	Turner	21	9	9	9	9
42	Moose River Lumber Co Inc	Moose River	94	94	94	94	94
27	Old Town Lumber Co	Old Town	35	40	40	40	40
23	Parker Lumber Co Inc	Bradford	12	12	12	12	12
24	Pleasant River Lumber Co	Dover-Foxcroft	83	83	83	83	83
19	P.H. Chadbourne & Co	Bethel	54	45	45	45	45
33	Richardson Forest Prod Inc	Ellsworth	14	18	18	18	18
45	Robbins Lumber Inc	Searsmount	57	53	53	53	53
25	R. Leon Williams Lumber Co	Clifton	17	24	24	24	24
20	R.E. Lowell Lumber Inc	Duckfield	12	12	12	12	12
39	Sherman Lumber Co	Shermon Static	21	17	17	17	17
43	Sonoco Company	North Anson	42	42	42	42	42
31	Stillwater Lumber	Stillwater	12	12	12	12	12
46	Stratton Lumber Co Inc	Stratton	101	106	106	106	106
15	Thomas Hammond & Son	East Hiram	14	14	14	14	14

	Softwood lumber (1,000 m³)	1995	1996	1997	1998	1999
	Number of sawmills	38	38	38	38	38
	Estimated capacity	2224	2225	2339	2427	2427
(a)	Reported output (U.S. Census)	2110	2216	2197		
	Implied capacity utilization	0.95	1.00	0.94		
	Softwood plywood					
	Estimated capacity					
(b)	Reported output (A.P.A.-Eng.Wd.Assoc.)					
	OSB					
	Estimated capacity	571	584	584	513	673
(c)	Reported output (A.P.A.-Eng.Wd.Assoc.)	572	611	499		
(d)	Particleboard/MDF (Composite Panel Assoc)					
(e)	Softwd. pulpwood receipts(A.Pulpwd.A.)	4337	4226	4107		
(f)	Approximate drain *(a+.45c+e)*	6704	6717	6528		

	Softwood timber (1,000 m³)	(1995 data)	1995	1996	1997	1998	1999
(g)	Growing stock	330932					
(h)	Net growth + mortality	9807					
	Drain estimate (all sources)	10167					
(h/g)	Growth to growing stock	0.030					
(f/g)	Drain to growing stock		0.020	0.020	0.020		
(f/h)	Drain to growth		0.684	0.685	0.666		
(h-f)/g	Relative surplus		0.009	0.009	0.010		
	Typical wood costs						
	Pine (Red & White) sawtimber ($/m³)						
	Standing		25	24	27	na	
	Delivered		46	47	49	na	

Maryland

Softwood Roundwood Inventory and Softwood Sawmill Capacity



Plant Capacity (Thous. Cub. Met.)

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355

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Maryland

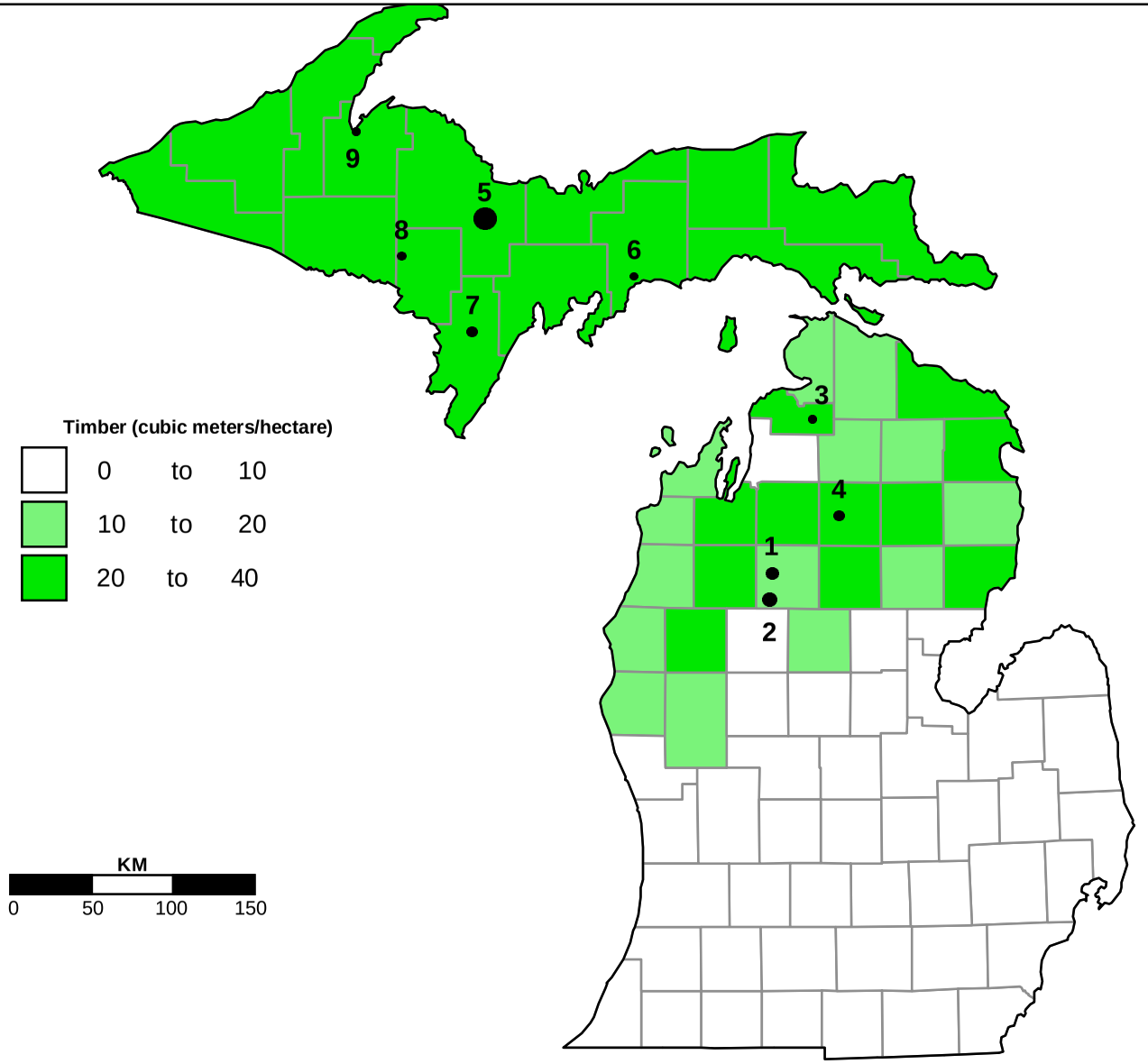
Mill I.D.	Name	Location	Capacity / Production (1,000 m³) 1995	1996	1997	1998	1999
12	Chesapeake Bldg Prod	Princess Anne	59	59	59	59	59
17	Cropper Brothers Lumber Co	Willards	20	20	20	20	20
11	Dorchester Lumber Co	Linkwood	17	17	17	17	17
15	J. Milton Laws Inc	Snow Hill	16	16	16	16	16
13	J. V. Wells Lumber Co	Sharptown	68	68	68	68	68
16	Millville Lumber Co	Snow Hill	16	20	21	16	16
14	Paul M. Jones Lumber Co	Snow Hill	10	10	10	10	10
10	Spicer Inc	Church Creek	11	11	11	11	11

	Softwood lumber (1,000 m³)	1995	1996	1997	1998	1999
	Number of sawmills	8	8	8	8	8
	Estimated capacity	217	221	222	217	217
(a)	Reported output (U.S. Census)	196	194	205		
	Implied capacity utilization	0.90	0.88	0.93		
	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 estimat	211	216	222		
(f)	Approximate drain (c+j) *(a+e)*	407	409	427		

	Softwood timber (1,000 m³)	(1992 data)	1995	1996	1997	1998	1999
(g)	Growing stock	23626					
(h)	Net growth + mortality	1026					
	Drain estimate (all sources)	322					
(h/g)	Growth to growing stock	0.043					
(f/g)	Drain to growing stock		0.017	0.017	0.018		
(f/h)	Drain to growth		0.40	0.40	0.42		
(h-f)/g	Relative surplus		0.026	0.026	0.025		
	Typical wood costs						
	Pine sawtimber ($/m³)						
	Standing		na	na	na	na	
	Delivered		na	na	na	na	

Michigan

Softwood Roundwood Inventory and Softwood Sawmill Capacity



Plant Capacity (Thous. Cub. Met.)

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355

700

Michigan

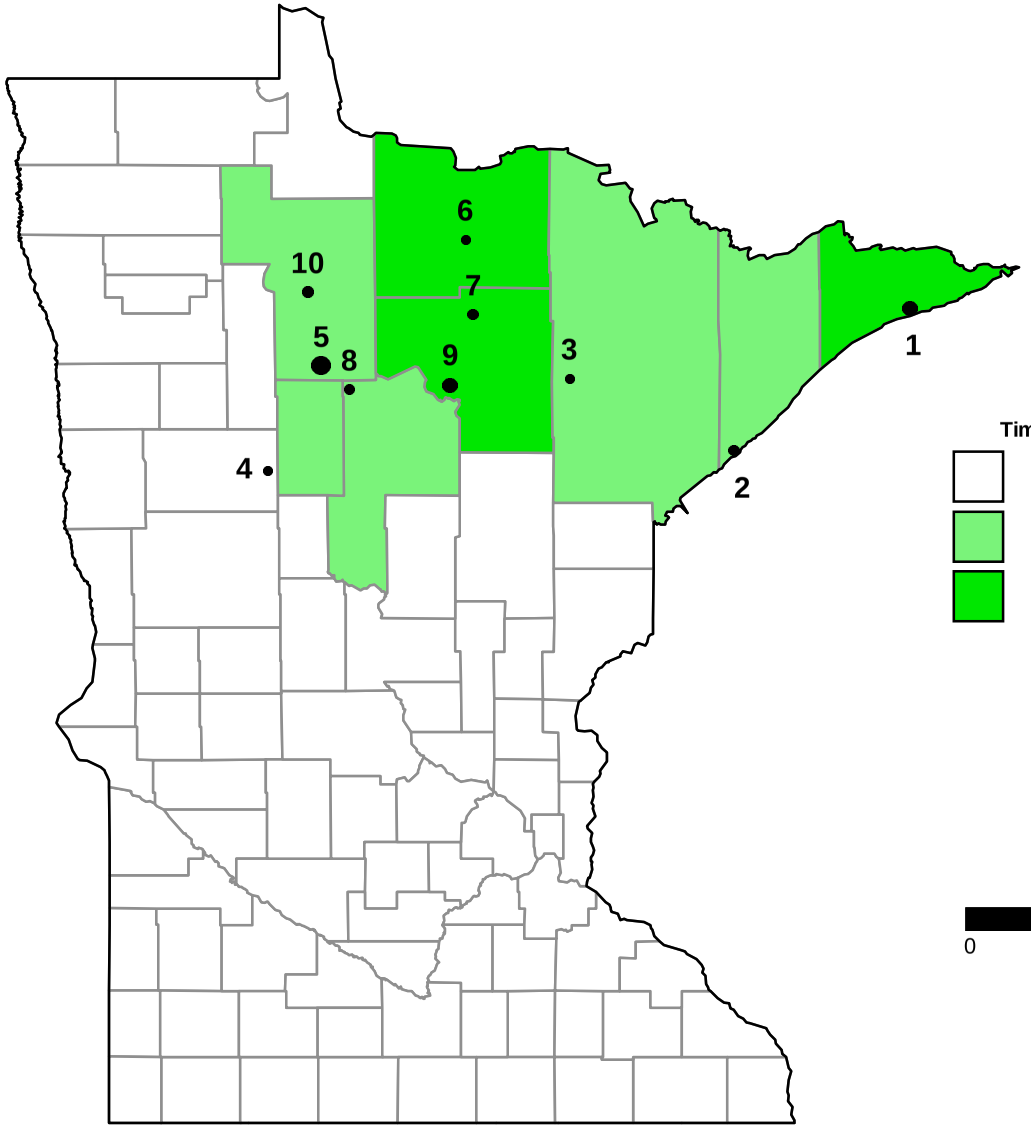
Mill I.D.	Name	Location	Capacity / Production (1,000 m³) 1995	1996	1997	1998	1999
4	AJD Forest Products	Grayling	52	52	52	52	52
8	Aspen Lumber Co	Sagola	21	21	21	21	21
7	Cedar River Lumber Co	Powers	42	44	44	44	44
9	Erickson Lumber Inc	L'Anse	15	15	15	15	15
2	John A. Biewer Lumber Co	McBain	97	97	97	97	97
6	Manistique Saw & Planing Mill	Manistique	5	7	7	7	7
3	Matelski Lumber Co	Boyne Falls	14	14	14	14	14
1	Pine Tech Inc	Lake City	66	66	66	66	66
5	Sawyer Lumber Co	Gwinn			35	300	300

	Softwood lumber (1,000 m³)	1995	1996	1997	1998	1999
	Number of sawmills	8	8	9	9	9
	Estimated capacity	313	317	352	617	617
(a)	Reported output (U.S. Census)	326	330	347		
	Implied capacity utilization	1.04	1.04	0.98		
	Softwood plywood					
	Estimated capacity					
(b)	Reported output (A.P.A.-Eng.Wd.Assoc.)					
	OSB					
	Estimated capacity	752	757	757	757	757
(c)	Reported output (A.P.A.-Eng.Wd.Assoc.)	746	762	783		
(d)	Particleboard/MDF (Composite Panel Assoc)	425	435	487	487	
(e)	Softwd. pulpwood receipts(A.Pulpwd.A.)	661	710	672		
(f)	Approximate drain *(a+b+c+d+e)*	2158	2238	2289		

	Softwood timber (1,000 m³)	(1993 data)	1995	1996	1997	1998	1999
(g)	Growing stock	214629					
(h)	Net growth + mortality	8241					
	Drain estimate (all sources)	2156					
(h/g)	Growth to growing stock	0.038					
(f/g)	Drain to growing stock		0.010	0.010	0.011		
(f/h)	Drain to growth		0.262	0.272	0.278		
(h-f)/g	Relative surplus		0.028	0.028	0.028		
	Typical wood costs						
	Pine (Jack, Red & White) sawtimber ($/m³)						
	Standing		37	36	33	43	
	Delivered		56	55	53	63	

Minnesota

Softwood Roundwood Inventory and Softwood Sawmill Capacity



Timber (cubic meters/hectare)

	0	to	10
	10	to	20
	20	to	40

KM

0 50 100 150

Plant Capacity (Thous. Cub. Met.)

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355

700

Minnesota

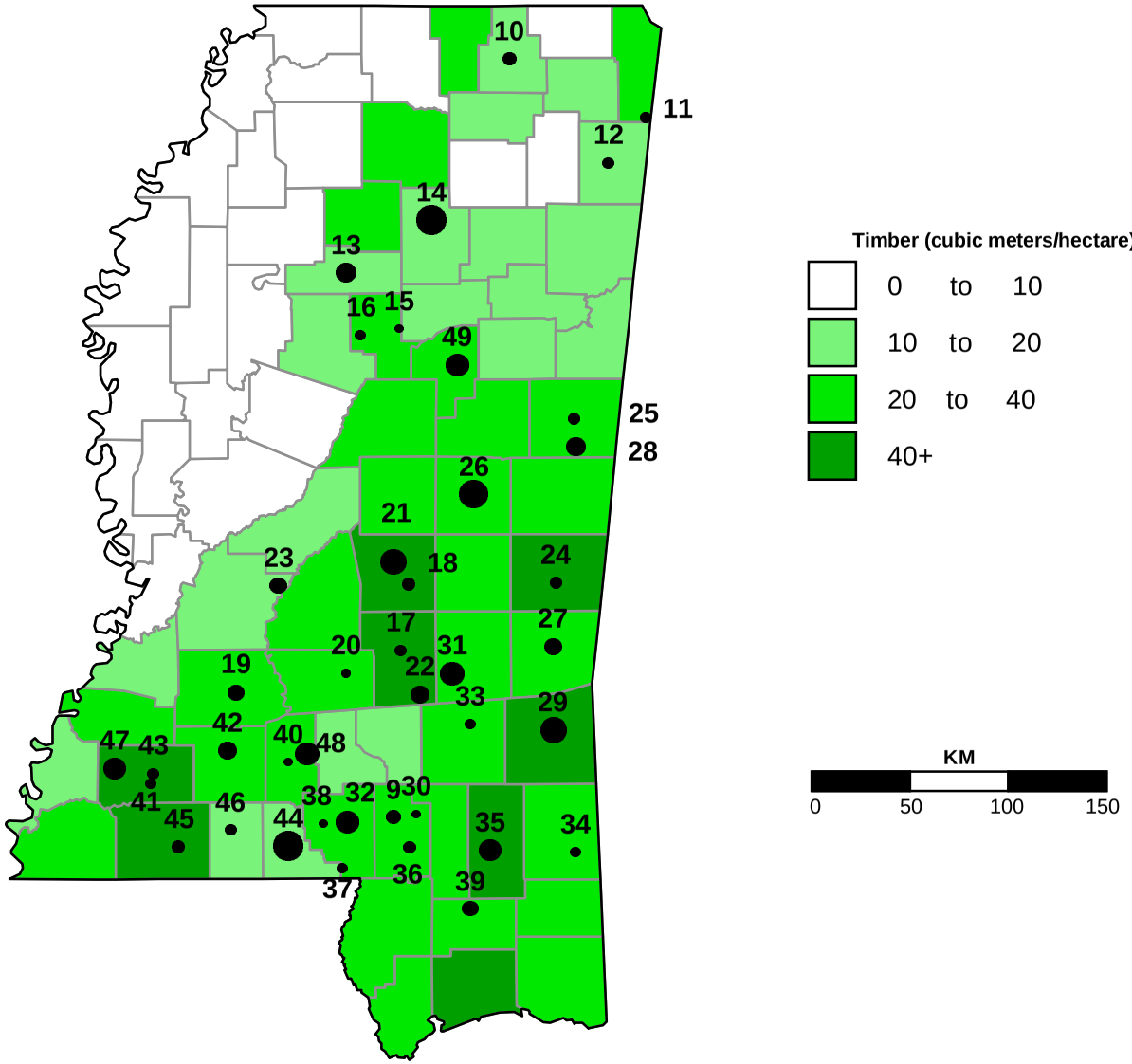
Mill I.D.	Name	Location	Capacity / Production (1,000 m³) 1995	1996	1997	1998	1999
8	Cass Forest Products Inc	Cass Lake	24	24	24	24	24
1	Hedstrom Lumber Co Inc	Grand Marais	59	59	83	83	83
3	Iron Range Lumber Inc	Hibbing	12	12	12	12	12
2	Midwest Timber Inc	Two Harbors	24	28	28	28	28
6	Page & Hill Forest Products	Big Falls	14	14	14	14	14
5	Potlatch	Bemidji	177	177	177	177	177
7	Rajala Timber Co	Bigfork	21	24	24	24	24
9	Rajala Timber Co	Deer River	71	83	83	83	83
10	Red Lake For Prod	Redby	35	35	35	35	35
4	Wadena Sawmills	Osage	14	14	14	14	14

	Softwood lumber (1,000 m³)	1995	1996	1997	1998	1999
	Number of sawmills	10	10	10	10	10
	Estimated capacity	451	470	493	493	493
(a)	Reported output (U.S. Census)	387	380	401		
	Implied capacity utilization	0.86	0.81	0.81		
	Softwood plywood					
	Estimated capacity					
(b)	Reported output (A.P.A.-Eng.Wd.Assoc.)					
	OSB					
	Estimated capacity	1343	1371	1404	1412	1596
(c)	Reported output (A.P.A.-Eng.Wd.Assoc.)	1353	1320	1290		
(d)	Particleboard/MDF (Composite Panel Assoc)					
(e)	Softwd. pulpwood receipts(A.Pulpwd.A.)	1195	990	913		
(f)	Approximate drain *(a+.15c+d+e)*	1785	1568	1508		

	Softwood timber (1,000 m³)	(1992 data)	1995	1996	1997	1998	1999
(g)	Growing stock	131773					
(h)	Net growth + mortality	5102					
	Drain estimate (all sources)	1962					
(h/g)	Growth to growing stock	0.039					
(f/g)	Drain to growing stock		0.014	0.012	0.011		
(f/h)	Drain to growth		0.350	0.307	0.296		
(h-f)/g	Relative surplus		0.025	0.027	0.027		
	Typical wood costs						
	Pine (Jack, Red & White) sawtimber ($/m³)						
	Standing		33	29	31	33	
	Delivered		52	48	51	53	

Mississippi

Softwood Roundwood Inventory and Softwood Sawmill Capacity



Plant Capacity (Thous. Cub. Met.)

10

355

700

Mississippi

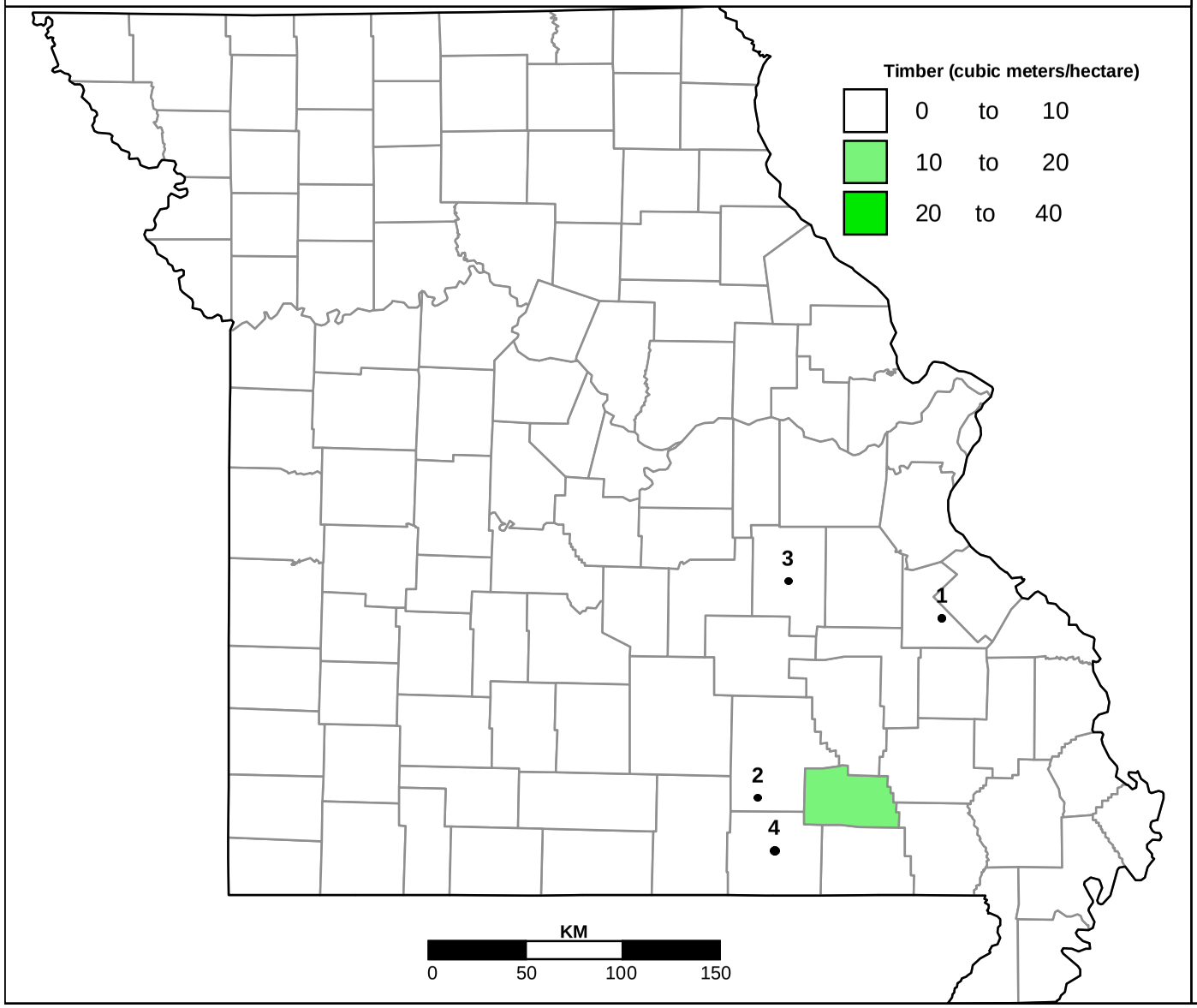
Mill I.D.	Name	Location	Capacity / Production (1,000 m³) 1995	1996	1997	1998	1999
	Louisiana-Pacific Corp	Philadelphia	89	78	83	89	
25	Barge Forest Prod Inc	Macon	50	50	50	50	50
20	Broadhead Lumber & Mfg Co	Mendenhall	12	12	12	12	12
34	Clark Forest Prod	Leakesville	24	24	24	24	24
42	Columbus Lbr Co	Brookhaven	142	160	160	165	165
15	Fisackerly Lumber Co	Winona	8	8	8	8	8
37	Forbes Lumber Co.	Sandy Hook	28	28	28	28	28
38	Foxworth & Thompson Inc	Foxworth	9	9	9	9	9
43	Franklin Timber Co	Bude	42	42	42	42	42
31	Georgia-Pacific Corp	Bay Springs	283	293	293	293	293
32	Georgia-Pacific Corp	Columbia	248	271	260	260	260
35	Georgia-Pacific Corp	New Augusta	257	257	257	257	257
47	Georgia-Pacific Corp	Roxie	245	293	248	248	248
22	Georgia-Pacific Corp	Taylorsville	177	146	158	177	177
10	Hankins Inc	Ripley	71	71	71	71	71
13	Hankins Lumber Co Inc	Grenada	163	212	212	212	212
27	Hankins Lumber Co Inc	Quitman	153	153	153	153	153
16	Hankins Lumber Co Inc	Winona	24	24	24	24	24
19	Hazlehurst Lumber Co	Hazlehurst	113	118	118	113	113
12	Homan Forest Prod	Fulton	42	42	42	42	42
29	Hood Industries, Inc	Waynesboro	340	330	326	340	340
9	Hudson Lumber Co	Hattiesburg	94	78	83	83	83
21	International Paper Corp	Morton	319	323	330	330	330
18	Jack Batte & Sons Inc	Forest	35	47	61	61	61
48	Joe N. Miles & Sons Inc	Silver Creek	217	283	283	283	283
17	King Lumber Co Inc	Forest	40	59	47	40	40
33	Laurel Lumber Co	Laurel	28	28	28	28	28
40	Lincoln Lumber Co	Brookhaven	10	10	10	10	10
45	Mabry Lumber Co	Liberty	57	57	57	57	57
24	Mid South Lumber Co	Meridian	52	52	52	52	52
41	Phillips Brothers Lumber Co	Brookhaven	24	24	24	24	24
36	Purvis Forest Prod Inc	Purvis	47	47	47	47	47
30	Salt Dome Timber Co	Hattiesburg	5	5	5	5	5
28	Shuqualak Lumber Co Inc	Shuqualak	201	189	177	189	189
23	Southern Lumber Co	Jackson	142	142	142	142	142
49	Tenneco Packaging	Ackerman	266	266	266	266	266
46	Three S Enterprises Inc	McComb	44	44	44	44	44
11	T. F. Evans Lumber Co	Fulton	33	33	33	33	33
14	Weyerhaeuser Co	Bruce	354	437	448	467	467
44	Weyerhaeuser Co	Fernwood(Mc	458	455	460	460	460
26	Weyerhaeuser Co	Philadelphia	295	354	413	413	413
39	Wiggins Lumber Co	Wiggins	106	106	106	106	106

	Softwood lumber (1,000 m³)	1995	1996	1997	1998	1999
	Number of sawmills	42	42	42	42	41
	Estimated capacity	5347	5662	5695	5757	5669
(a)	Reported output (U.S. Census)	5237	5430	5397		
	Implied capacity utilization	0.98	0.96	0.95		
	Softwood plywood					
	Estimated capacity	1318	1322	1296	1207	1207
(b)	Reported output (A.P.A.-Eng.Wd.Assoc.)	1294	1283	1245		
	OSB					
	Estimated capacity	354	646	650	650	650
(c)	Reported output (A.P.A.-Eng.Wd.Assoc.)	345	553	582		
(d)	Particleboard/MDF (Composite Panel Ass.)	851	858	862	867	
(e)	Softwd. pulpwood receipts(A.Pulpwd.A.)	8347	9559	9007		
(f)	Approximate drain *(a+b+c+d+e)*	16074	17683	17094		

	Softwood timber (1,000 m³) (1994 data)		1995	1996	1997	1998	1999
(g)	Growing stock	260861					
(h)	Net growth + mortality	20221					
	Drain estimate (all sources)	20159					
(h/g)	Growth to growing stock	0.078					
(f/g)	Drain to growing stock		0.062	0.068	0.066		
(f/h)	Drain to growth		0.795	0.875	0.845		
(h-f)/g	Relative surplus		0.016	0.010	0.012		
	Typical wood costs						
	Pine sawtimber ($/m³)						
	Standing		70	58	74	76	
	Delivered		82	69	86	88	

Missouri

Softwood Roundwood Inventory and Sawmill Capacity



Plant Capacity (Thous. Cub. Met.)

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355

700

Missouri

Mill I.D.	Name	Location	Capacity / Production (1,000 m³) 1995	1996	1997	1998	1999
3	Arneson Timber Co	Steelville	9	9	9	9	9
1	Botkin Lumber Co Inc	Farmington	15	14	14	15	15

	Softwood lumber (1,000 m³)	1995	1996	1997	1998	1999
	Number of sawmills	4	4	4	4	4
	Estimated capacity	60	59	59	60	60
(a)	Reported output (U.S. Census)	66	64	64		
	Implied capacity utilization	1.11	1.08	1.08		
	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	260		
(f)	Approximate drain *(a+e)*	326	324	324		

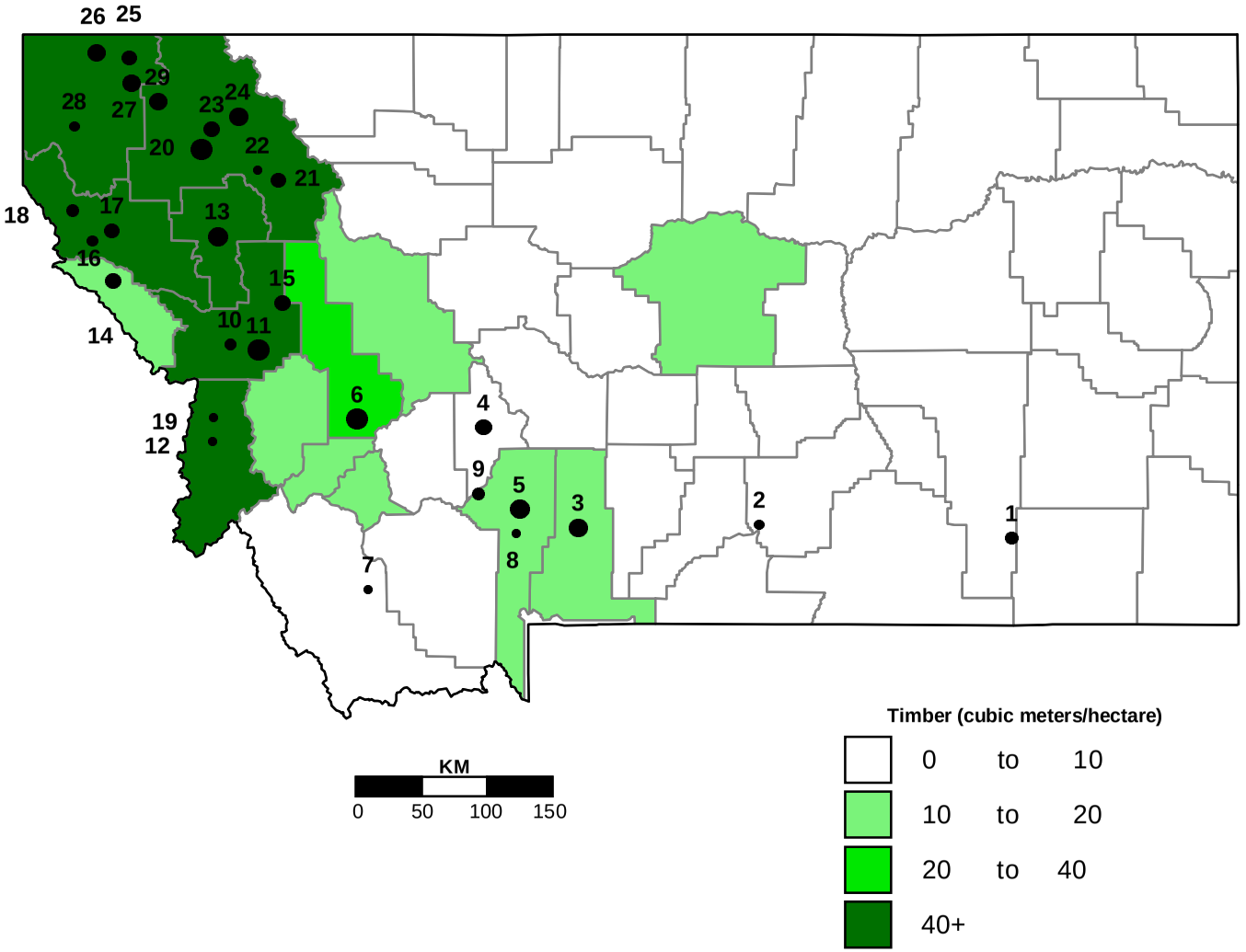
Mill I.D.	Name	Location	Capacity / Production (1,000 m³) 1995	1996	1997	1998	1999
2	Frost Sawmill	Birch Tree	6	6	6	6	6
4	Ledgerwood Lumber Co Inc	Alton	30	30	30	30	30

	Softwood timber (1,000 m³)	(1992 data)	1995	1996	1997	1998	1999
(g)	Growing stock	24390					
(h)	Net growth + mortality	1036					
	Drain estimate (all sources)	328					
(h/g)	Growth to growing stock	0.042					
(f/g)	Drain to growing stock		0.013	0.013	0.013		
(f/h)	Drain to growth		0.315	0.313	0.313		
(h-f)/g	Relative surplus		0.029	0.029	0.029		

Typical wood costs					
Pine sawtimber ($/m³)					
Standing	33	26	32	30	
Delivered	39	37	48	53	

Montana

Softwood Roundwood Inventory and Sawmill Capacity



Plant Capacity (Thous. Cub. Met.)

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355

700

Montana

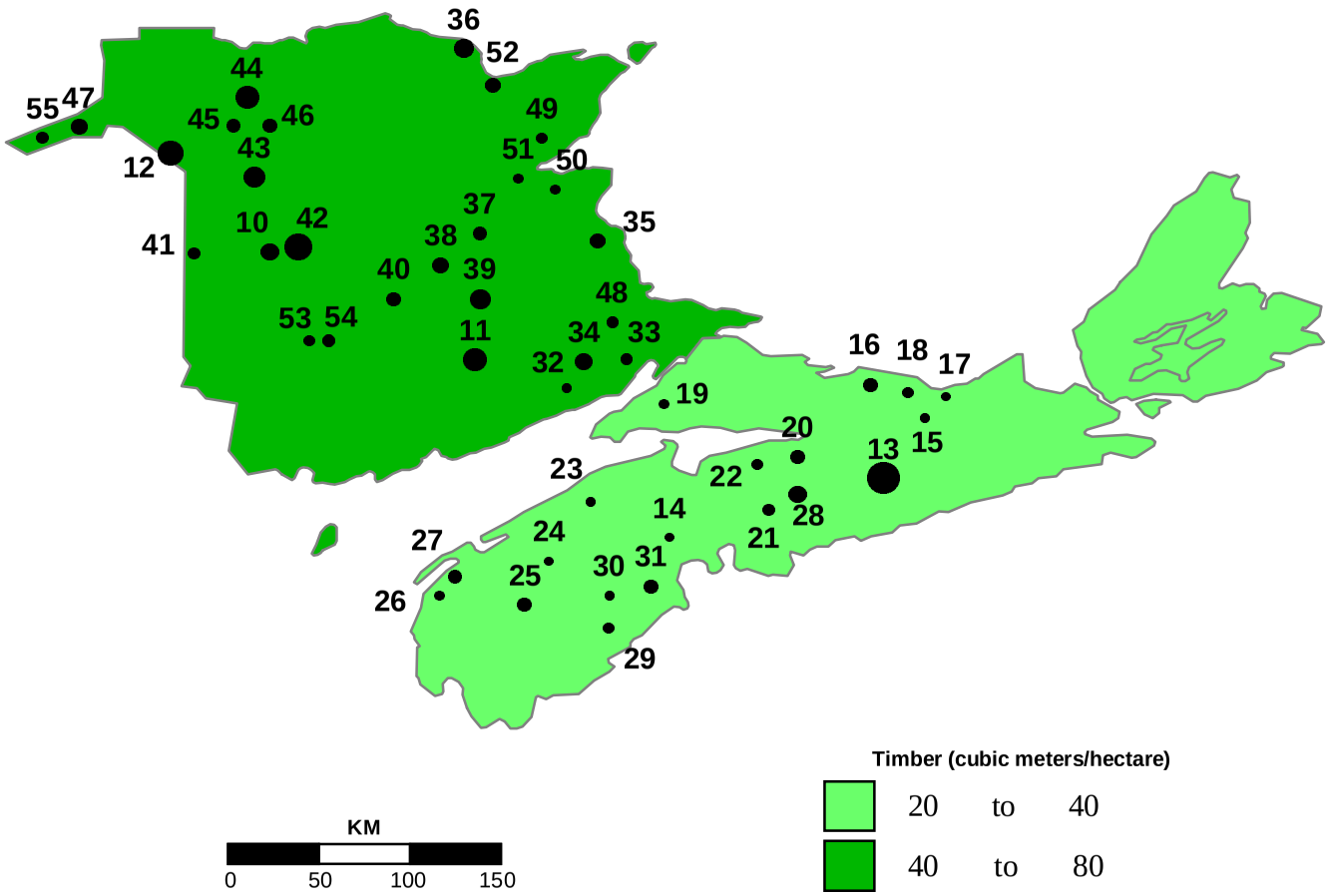
Mill I.D.	Name	Location	Capacity / Production (1,000 m³) 1995	1996	1997	1998	1999
	J.D. Lumber Inc	Judith Gap	56	52			
	Border Lumber Co	Rexford	65	65			
	Tri River Lumber Sales	Thompson Falls	5	5	5		
	Darby Lumber Co	Darby	83	83	71		
29	American Stud Co	Olney	175	201	227	227	227
19	Blackfoot River Lumber Co	Victor	17	17	17	17	17
2	Cascade Timber Inc	Laurel	30	30	30	30	30
9	D & G Lumber Co	Three Forks	59	59	59	59	59
10	Eagle Stud Mill	Missoula	54	50	54	54	54
23	F.H. Stoltze Land & Lumber Co	Columbia Falls	106	111	113	113	113
22	Klinger Lumber Co Inc	Kalispell	14	14	14	14	14
25	Lone Pine Timber Industries	Eureka	90	90	90	90	90
5	Louisiana-Pacific Corp	Belgrade	212	212	212	212	212
6	Louisiana-Pacific Corp	Deer Lodge	189	236	236	236	236
8	Lumber Enterprises Inc	Gallatin Gatewa	14	14	14	14	14
7	Lumber Prod Inc	Dillon	12	12	12	12	12
1	Northern Cheyenne Pine Co	Ashland	71	71	71	71	71
26	Owens and Hurst Lumber Co	Eureka	189	168	177	177	177
27	Plum Creek Timber Co	Fortline	165	165	165	165	165
24	Plum Creek Timber Co	Columbia Falls	177	189	208	189	189
13	Plum Creek Timber Co	Pablo	189	189	219	219	219
20	Plum Creek Timber Co	Kalispell	224	186	236	236	236
15	Pyramid Mountain Lumber	Seely Lake	118	113	118	118	118
17	Riley Creek Lumber Co	Thompson Falls	94	94	94	94	94
12	Rocky Mountain Log Homes	Hamilton	12	12	12	12	12
4	R.Y. Timber	Townsend	142	142	142	142	142
3	R.Y. Timber	Livingston	189	189	189	189	189
21	Stillwater Forest Prod	Kalispell	94	94	94	94	94
28	Stimson Lumber Co	Libby	24	24	24	24	24
11	Stimson Lumber Co	Bonner	118	260	260	260	260
16	Thompson River Lumber Inc	Thompson Falls	38	38	38	38	38
14	Tricon Timber Inc	Saint Regis	118	118	118	118	118
18	Vinson Timber Prod	Trout Creek	57	57	57	57	57

	Softwood lumber (1,000 m³)	1995	1996	1997	1998	1999
	Number of sawmills	33	33	31	29	29
	Estimated capacity	3198	3357	3374	3280	3280
(a)	Reported output (U.S. Census)	3030	3044	3186		
	Implied capacity utilization	0.95	0.91	0.94		
	Softwood plywood					
	Estimated capacity	570	570	570	570	570
(b)	Reported output (A.P.A.-Eng.Wd.Assoc.)	547	527	527		
	OSB					
(c)	Estimated capacity					
	Reported output (A.P.A.-Eng.Wd.Assoc.)					
(d)	Particleboard/MDF (Composite Panel Assoc)	483	483	495	500	
(e)	Softwd. pulpwood receipts(FPL estimate)	1688	1705	1472		
(f)	Approximate drain *(a+b+d+e)*	5748	5760	5680		

	Softwood timber (1,000 m³)	(1992 data)	1995	1996	1997	1998	1999
(g)	Growing stock (ex NF)	257963					
(h)	Net growth + mortality (ex NF)	8021					
	Drain estimate (all sources)	7317					
(h/g)	Growth to growing stock	0.031					
(f/g)	Drain to growing stock		0.022	0.022	0.022		
(f/h)	Drain to growth		0.72	0.72	0.71		
(h-f)/g	Relative surplus		0.009	0.009	0.009		
	Typical wood costs						
	Pine sawtimber ($/m³)						
	Standing (State owned)		56	51	43	45	
	Delivered(Average of D Fir & P pine)		81	82	84	78	

New Brunswick and Nova Scotia

Softwood Roundwood Inventory and Softwood Sawmill Capacity



Plant Capacity (Thous. Cub. Met.)

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355

700

New Brunswick/Nova Scotia

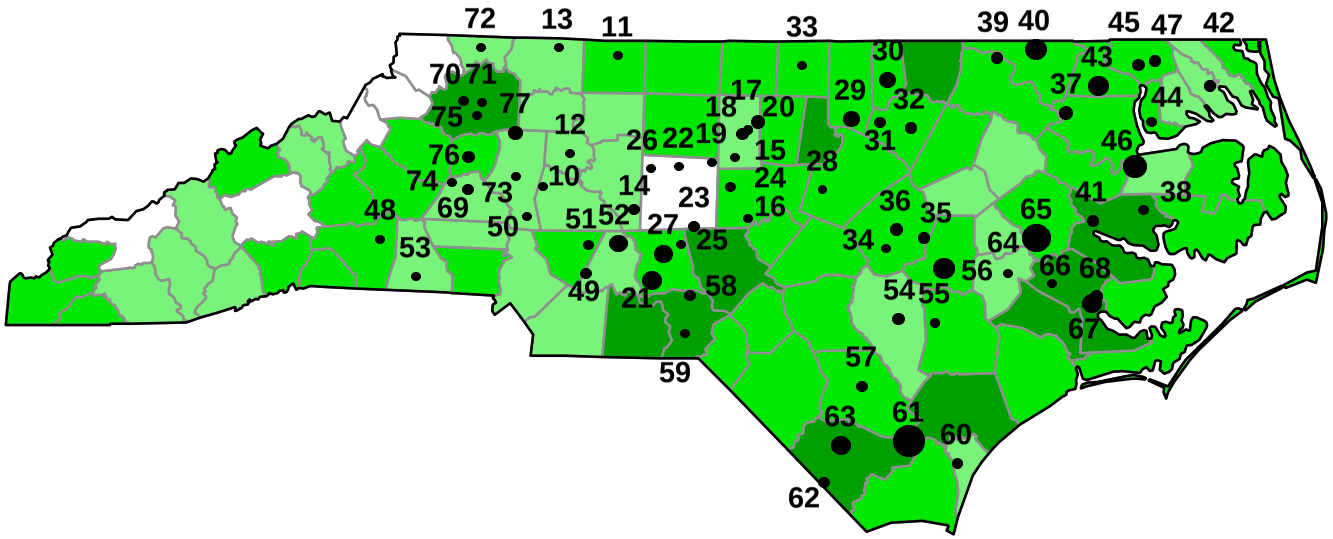
Mill I.D.	Name	Location	Capacity / Production (1,000 m³) 1995	1996	1997	1998	1999
52	Abitibi Consolidated	Bathurst, NB	85	85	84	84	84
40	Ashley Colter	Boiestown, NB	77	77	77	77	77
30	Barrett Lumber Co	Sachville, NS	12	12	12	12	12
37	Blackville Lumber	Blackville, NB	59	59	59	59	59
31	Bowater Lumber Co Inc	Bridgewater, NS	85	76	78	78	78
36	Chaleur Sawmill Associates	Belledune, NB	59	118	165	165	165
26	Comeau Lumber	Meteghan, NC	19	19	19	19	19
18	C.F.Dickson For Prod	Westville, NS	28	28	28	28	28
35	Delco Forest Prod	Rexton, NB	89	89	89	89	89
16	Deniso Lebel Inc	Scotsburn, NS	71	71	71	71	71
44	Deniso Lebel Inc	Kedgwick, NB	189	189	189	236	236
53	Devon Lumber Co Ltd	Fredericton, NB	30	30	31	31	31
21	Elmsdale Lum Co	Elmsdale, NS	42	42	42	42	42
32	Eric Goguen & Sons	Cocagne, NB	15	15	15	15	15
43	Fraser Inc	Gordon, NB	212	212	212	212	212
55	Gilles Begin Lumber Ltd	Clair, NB	38	38	38	38	38
45	Groupe Savoie Inc (2 mills)	St. Quentin, NB	59	59	59	59	59
34	H A Fawcett & Son Ltd	Petitcodiac, NB	94	94	118	118	118
41	H J Crabbe & Sons Ltd	Bristol, NB	38	38	38	38	38
25	Harry Freeman & Son	Greenfield, NS	71	71	71	71	71
29	Hefler For Prod Ltd	Lower Sackvill NS	24	24	24	24	24
19	Hoeg Bros Lumber	S. Hampton, NS	18	18	18	18	18
24	Holdwright Lumber Prod	Queens Co., NS	9	9	9	9	9
17	Hugh Park & Son	Thorburn, NS	9	9	9	9	9
38	J D Irving Ltd	Doaktown, NB		94	94	94	94
10	J D Irving Ltd	Deersd/Juniper,NB	135	135	135	135	135
39	J D Irving Ltd	Chipman, NB	189	189	189	189	189
11	J D Irving Ltd	Sussex, NB	260	260	260	260	260
12	J D Irving Ltd	St. Leonard, NB	291	295	295	295	295
20	Julimar Lumber	Brookfield, NS	57	57	64	71	71
42	Juniper Lumber Co Ltd	Juniper, NB	177	177	330	330	330
23	Kingston Lum & Bldg Supply	Kingston, NS	12	12	12	12	12
48	Lakeburn Lumber Co	Moncton, NB	35	35	35	35	35
28	Ledwidge Lumber Co	Enfield, NS	35	73	120	120	120
27	Lewis Sawmill	Weymouth, NS	59	59	59	59	59
54	M L Wilkins & Son Ltd	Fredericton, NB	47	52	59	64	71
13	McTara Ltd	U.Musquodob, NS	118	118	236	413	472
50	Miramichi Pulp & Paper Inc	Miramichi, NB	19	19	19	19	19
14	Murray Reeves	New Ross, NS	11	11	11	11	11
49	Newcastle Lumber Co	Newcastle, NB	24	24	24	24	24
46	N. American For Prod	St. Quentin, NB	78	78	78	78	78
47	Produits Forestiers Alliance Inc	Baker Brook , NB	106	106	142	118	130
51	Repap	Newcastle, NB	21	21	21	21	21
22	Russel White Lumber	Kennetcook, NS	30	30	30	30	30
33	T.P. Downey & Sons	Hillsborough, NB	35	35	35	35	35
15	Williams Bros Ltd	Barney's River, NS	15	15	15	15	15

	Softwood lumber (1,000 m³)	1995	1996	1997	1998	1999
	Number of sawmills	45	46	46	46	46
	Estimated capacity	3185	3376	3817	4030	4108
	Reported output (Stat. Can.)	3221	3022	3844		
	Implied capacity utilization	1.01	0.90	1.01		
	Softwood Roundwood Removals					
(a)	Logs and Bolts	7043	8204			
(b)	Pulpwood	5546	5290			
(c)	Miscellaneous	19	24			

	Softwood timber (1,000 m³)	(1991 data)	1995	1996	1997	1998	1999
(d)	Mature growing stock	260000					
(e)	Annual private & provincial allowable cut		10735	10735	10735		
(f)	Total removals	*(a+b+c)*	12608	13518			
	Allowable cut to growing stock	*(e/d)*	0.041	0.041	0.041		
	Drain to growing stock	*(f/d)*	0.048	0.052			
	Typical sawtimber costs (US$/m³)						
	Delivered		35	37	40	37	

North Carolina

Softwood Roundwood Inventory and Softwood Sawmill Capacity



Timber (cubic meters/hectare)

0	to	10	
10	to	20	
20	to	40	
40+			

KM

0 50 100 150

Plant Capacity (Thous. Cub. Met.)

10

355

700

North Carolina

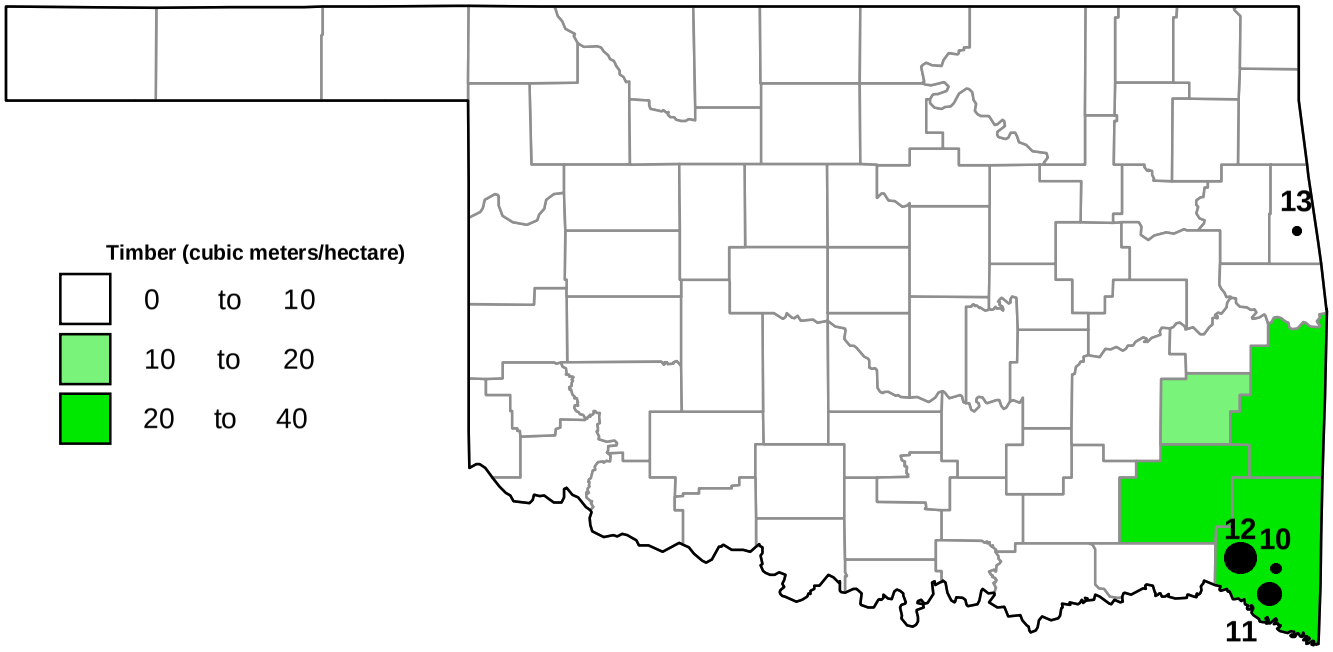
Mill I.D.	Name	Location	Capacity / Production (Thousand m³) 1995	1996	1997	1998	1999
44	Albemarle Forest Prod Inc	Edenton	21	21	21	21	21
59	Allen Bros Timber Co	Rockingham	10	10	10	10	10
28	Apex Lumber Co Inc	Apex	11	11	11	11	11
45	Ashton Lewis Lumber Co	Gatesville	42	42	42	42	42
11	Bill Hanks Lumber Co	Danbury	11	11	11	11	11
14	Bingham Lbr Co Inc	Denton	24	24	24	24	24
17	Braxton Sawmill Inc	Graham	15	15	14	15	15
73	Brittain Lumber Co	Statesville	9	9	9	9	9
15	Cheek Lumber Co Inc	Goldston	5	5	5	5	5
68	Coastal Lumber Co	New Bern	50	50	50	50	50
50	Curtis Lumber Co Inc	Mooresville	6	1	6	6	6
69	C. G. Fox Lumber Co Inc	Conover	24	24	24	24	24
53	Ellis Lumber Co	Shelby	6	6	6	6	6
37	Evans Lumber Co	Lewiston	59	59	59	59	59
60	E. W. Godwin's Sons Inc	Wilmington	30	30	30	30	30
74	Fortner Lumber Co Inc	Taylorsville	6	6	6	6	6
19	F. F. Pugh & Son Sawmill In	Liberty	5	5	5	5	5
55	F. L. Turlington Lbr Co Inc	Clinton	13	13	13	13	13
76	F. S. Childers & Sons Lbr Co	Taylorsville	44	44	44	44	44
77	G & G Lumber Co	Union Grove	22	76	76	76	76
71	George Sale Lumber Co	N. Wilkesboro	5	5	5	5	5
43	Georgia-Pacific Corp	Ahoskie	137	94	184	184	184
29	Georgia-Pacific Corp	Creedmoor	104	85	85	106	106
56	Georgia-Pacific Corp	Dudley	118	170	201	196	196
63	Georgia-Pacific Corp	Whiteville	165	142	160	170	170
16	Goldston Lumber Inc	Goldston	8	8	8	8	8
26	Hillsville Lumber Co	Trinity	8	8	8	8	8
47	Hofler & Sons Lumber Co	Sunbury	34	34	34	34	34
52	H. W. Culp Lumber Co	New London	142	142	142	142	142
61	International Paper Corp	Riegelwood	425	413	472	472	472
34	Jerry G. Williams & Sons Inc	Smithfield	8	8	8	8	8
21	Jordan Lumber & Supply Co	Mount Gilead	177	177	177	177	177
18	J. L. Sizemore & Sons	Graham	41	41	41	41	41
42	J. W. Jones Lumber Co	Elizabeth City	35	35	35	35	35
54	Keener Lumber Co Inc	Clinton	40	40	40	40	40
35	Keener Lumber Co Inc	Smithfield	33	33	33	33	33
23	King Lumber Co	Seagrove	24	24	24	24	24
36	Lampe & Malphrus Lumber (	Smithfield	47	47	47	47	47
49	Locust Lumber Co	Locust	28	19	24	28	28
30	Louisiana-Pacific Corp	Henderson	65	83	94	94	94
72	L. F. Delp Lumber Co	Sparta	4	4	4	4	4
41	Mason Lumber Co	Washington	34	28	33	34	34
25	McIntosh Lumber Co	Star	12	12	12	12	12
20	Mebane Lumber Co Inc	Mebane	57	59	59	57	57
13	Noonkester Lbr Inc	Mount Airy	5	5	5	5	5
51	Piedmont Hardwood Lbr Co	Mount Pleasan	21	21	21	21	21
31	Pruitt Lumber Co	Louisburg	28	28	28	28	28
22	Randleman Lumber Co	Randleman	9	9	9	9	9
70	Randy Miller Lumber Co	Millers Creek	19	19	19	19	19
39	Roanoke Lumber Co	Roanoke Rapi	34	34	34	34	34
64	Roger Carter Corp	Kinston	5	5	5	5	5
12	Seaford Lumber Co	Mocksville	11	11	11	11	11
10	Shaver Wood Prod	Cleveland	8	8	8	8	8
75	Sipe Lumber Co Inc	Taylorsville	12	12	12	12	12
33	Talbert & Talbert Lumber Co	Roxboro	6	6	6	6	6
32	Toney Lumber Co	Louisburg	34	35	33	34	34
27	Troy Lumber Co	Troy	106	106	153	153	153
58	Troy Lumber Sales Corp	Norman	25	25	25	25	25
40	Union Camp Corp	Seaboard	236	212	212	212	212
62	Waccamaw Lumber Co	Tabor City	21	24	24	24	24
57	Ward Lumber Co	Elizabethtown	24	24	24	24	24
66	Warmack Lumber Co Inc	Cove City	11	11	11	11	11
48	Waters Lumber Co	Bostic	8	8	8	8	8
65	Weyerhaeuser Co	Ayden	354	373	378	378	378
67	Weyerhaeuser Co	New Bern	118	179	179	201	201
46	Weyerhaeuser Co	Plymouth	177	234	250	271	271
24	Wrenn Bros Inc	Siler City	23	23	23	23	23
38	Younce & Ralph Lumber Co	Pantego	19	11	19	19	19

	Softwood lumber (1,000 m³)	1995	1996	1997	1998	1999
	Number of sawmills	68	68	68	68	68
	Estimated capacity	3477	3594	3892	3966	3966
(a)	Reported output (U.S. Census)	3866	3889	4147		
	Implied capacity utilization	1.11	1.08	1.07		
	Softwood plywood					
	Estimated capacity	804	818	773	575	575
(b)	Reported output (A.P.A.-Eng.Wd.Assoc.)	772	760	725		
	OSB					
	Estimated capacity	354	717	766	770	770
(c)	Reported output (A.P.A.-Eng.Wd.Assoc.)	415	633	831		
(d)	Particleboard/MDF (Composite Panel Asso	482	553	607	628	
(e)	Softwd. pulpwood receipts(A.Pulpwd.A.)	6373	5764	6274		
(f)	Approximate drain *(a+b+c+d+e)*	11907	11599	12583		

	Softwood timber (1,000 m³)	(1992 data)	1995	1996	1997	1998	1999
(g)	Growing stock	354966					
(h)	Net growth + mortality	20011					
	Drain estimate (all sources)	15048					
(h/g)	Growth to growing stock	0.056					
(f/g)	Drain to growing stock		0.034	0.033	0.035		
(f/h)	Drain to growth		0.60	0.58	0.63		
(h-f)/g	Relative surplus		0.023	0.024	0.021		
	Typical wood costs						
	Pine sawtimber ($/m³)						
	Standing		36	38	44	50	
	Delivered		56	59	65	70	

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) 1995	1996	1997	1998	1999
10	Wood Lumber Co	Idabel	24	24	24	24	24
11	Georgia-Pacific Corp	Idabel	201	201	201	276	276

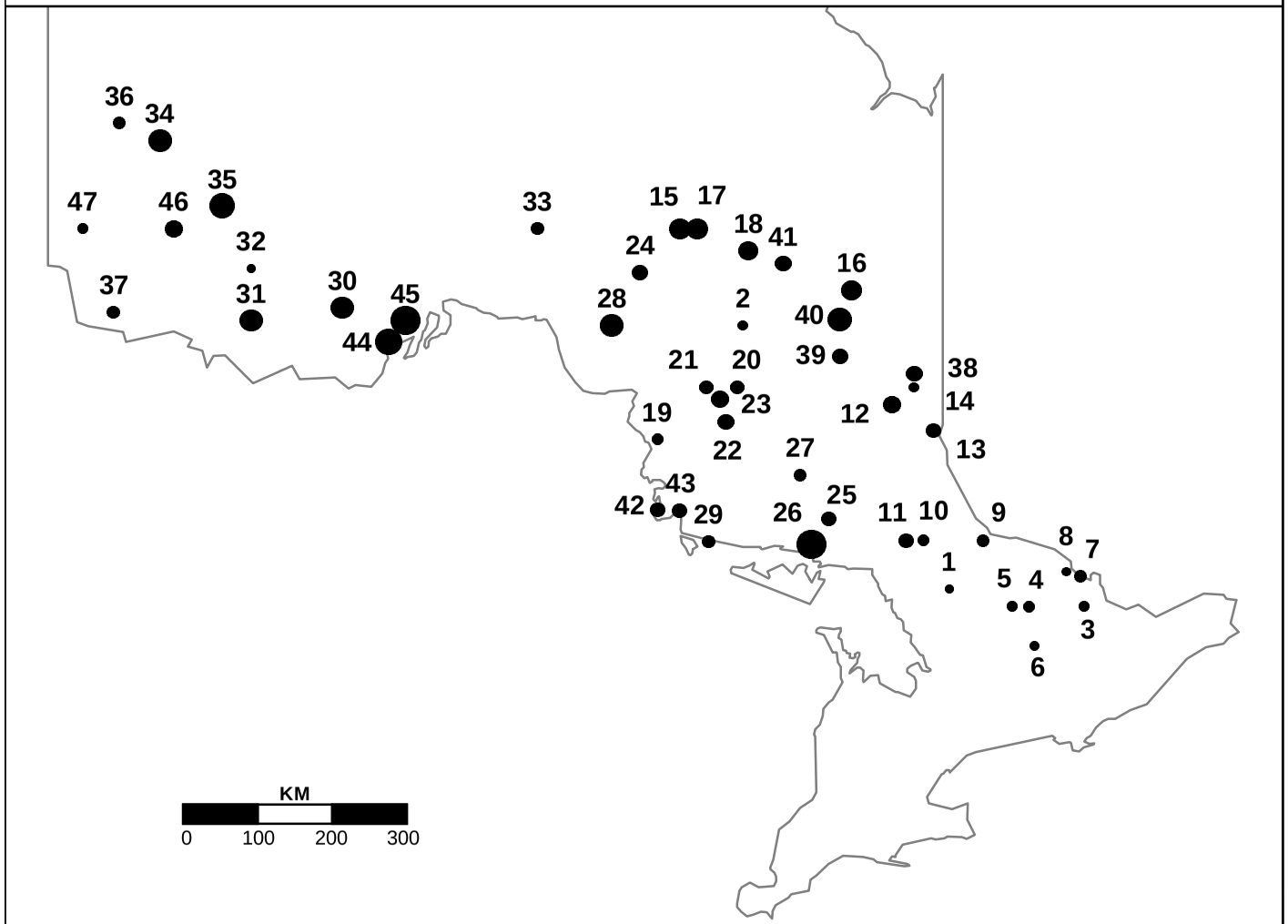
	Softwood lumber (1,000 m³)	1995	1996	1997	1998	1999
	Number of sawmills	4	4	4	4	4
(a)	Estimated capacity	652	700	716	799	799
	Reported output (U.S. Census)	na	na	na	na	na
	Implied capacity utilization					
	Softwood plywood					
(b)	Estimated capacity	146	146	146	146	146
	Reported output (A.P.A.-Eng.Wd.Assoc.)	na	na	na		
	OSB					
	Estimated capacity					
(c)	Reported output (A.P.A.-Eng.Wd.Assoc.)					
(d)	Particleboard/MDF (Composite Panel Assoc)		65	110	110	
(e)	Softwd. pulpwood receipts(A.Pulpwd.A.)	601	591	581		
(f)	Approximate drain *(a+b+d+e)*	1399	1502	1554		

Mill I.D.	Name	Location	Capacity / Production (1,000 m³) 1995	1996	1997	1998	1999
12	Weyerhaeuser Co	Wright City	413	460	477	484	484
13	Conner Industries Inc	Stilwell	15	15	15	15	15

	Softwood timber (1,000 m³)	(1993 data)	1995	1996	1997	1998	1999
(g)	Growing stock	39513					
(h)	Net growth + mortality	3343					
	Drain estimate (all sources)	1620					
(h/g)	Growth to growing stock	0.085					
(f/g)	Drain to growing stock		0.035	0.038	0.039		
(f/h)	Drain to growth		0.42	0.45	0.46		
(h-f)/g	Relative surplus		0.049	0.047	0.045		
	Typical wood costs						
	Pine sawtimber ($/m³)						
	Standing		na	na	na	na	
	Delivered		na	na	na	na	

Ontario

Softwood Sawmill Capacity



Plant Capacity (Thous. Cub. Met.)

10

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700

Ontario

Mill I.D.	Name	Location	Capacity / Production (1,000 m³) 1995	1996	1997	1998	1999
20	A & L LaFreniere Lumber Ltc	Chapleau	83	83	83	83	83
31	Atikokan Forest Products Ltc	Atikokan	283	283	283	283	283
46	Avenor Inc	Dryden	127	127	130	165	165
34	Avenor Inc	Ear Falls	106	106	283	307	307
2	C A Spencer Inc	Lochiel	24	24	24	24	24
14	Cheminis Lumber Inc	Larder lake	26	26	26	26	26
23	Domtar	Chapleau	170	170	170	170	170
12	Domtar	Elk Lake	165	165	165	165	165
26	Domtar	Nairn	472	472	472	472	472
43	Domtar	Sault St Marie	94	94	94	94	94
39	Domtar	Timmins	116	116	116	116	116
28	Domtar	White River	295	295	295	295	295
30	Dubreuil For Prod Ltd	Dubreuilville	283	283	283	283	283
18	Excel Forest Prod	Opasatika	156	177	177	177	177
6	Freymond Lumber Ltd	Bancroft	17	17	28	28	28
25	Gogama For Prod Ltd	Levack	97	97	97	97	97
11	Goulard Lumber (1971) Ltd	Sturgeon Falls	106	106	106	106	106
45	Great West Timber Ltd	Thunder bay	307	307	472	472	472
8	Herb Shaw & Son	Petawawa	21	21	21	21	21
27	H&R Chartrand	Noelville	59	59	59	59	59
32	Ignace Saw	Ignace	7	7	15	15	15
10	Isidore Roy Ltd	Sturgeon Falls	25	25	54	54	54
22	J E Martel & Sons Ltd	Chapleau	130	130	130	130	130
10	Isidore Roy Ltd	Sturgeon Falls	25	25	54	54	54
22	J E Martel & Sons Ltd	Chapleau	130	130	130	130	130

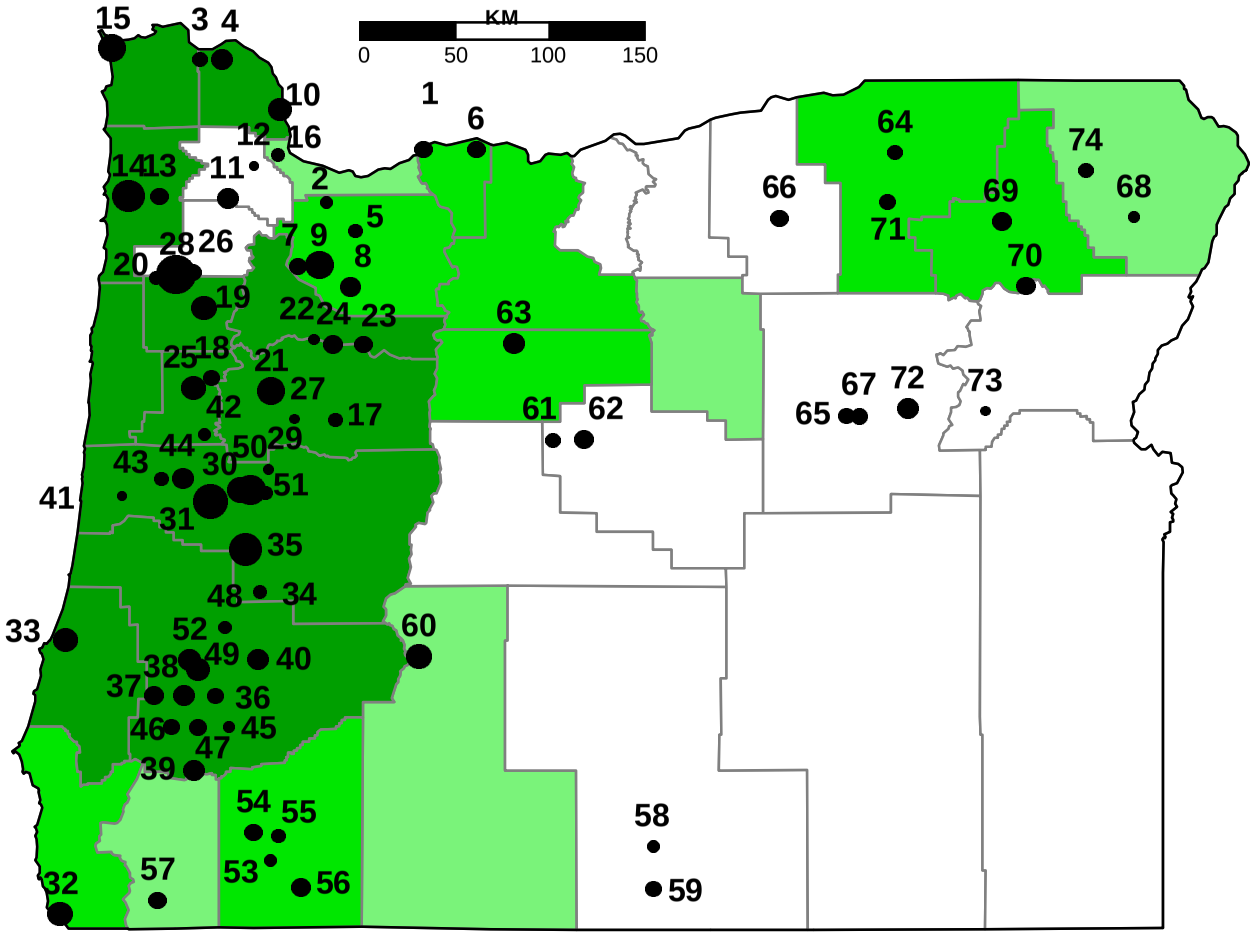
Mill I.D.	Name	Location	Capacity / Production (1,000 m³) 1995	1996	1997	1998	1999
47	Kenora Forest Products	Kenora	35	35	35	35	35
7	La Compagnie Commonwealt	Pembroke	59	59	59	59	59
42	LaJambe Forest Products Inc	Sault St marie	94	94	94	104	104
1	LaJambe Forest Products Inc	Sundridge	12	12	12	12	12
3	LaVerne Heidemann & Sons	Eganville			19	38	38
15	Lecours Lumber Co Ltd	Calstock	236	236	236	236	236
13	Liskeard Lumber Ltd	New Liskeard	100	100	100	100	100
36	LKGH Contracting Ltd	Red Lake	59	59	59	59	59
33	Long Lake For Prod	Longlac	71	71	71	71	71
37	Manitou Lumber Co	Emo	64	64	64	64	64
35	McKenzie For prod Inc	Hudson	354	354	354	354	354
5	McRae Mills Ltd	Whitney	31	33	33	33	33
29	Midway Lumber Mills	Thessalon	40	40	74	74	74
4	Murray Brothers Lumber Co	Madawaska	52	52	52	52	52
44	Northern Sawmills	Thunder bay	378	378	378	378	378
24	Olav Haavaldsrud Timber Co	Hornepayne	113	113	113	113	113
21	Pineal Lake Lumber	Chapleau	83	83	83	83	83
41	Spruce Falls Inc	Kapuskasing	142	142	142	142	142
19	Tembec	Alban	28	26	53	53	53
16	Tembec	Cochrane	224	224	224	224	224
17	Tembec	Hearst	236	236	236	236	236
38	Tembec	Kirkland Lake	125	125	125	125	125
9	Tembec	Mattawa	89	59	59	59	59
40	Tembec	Timmins	319	319	319	319	319

	Softwood lumber (1,000 m³)	1995	1996	1997	1998	1999
	Number of sawmills	46	46	47	47	47
	Estimated capacity	6111	6103	6576	6663	6663
	Reported output (Stat. Can.)	5709	5600	6015		
	Implied capacity utilization	0.93	0.92	0.91		
	Softwood Roundwood Removals					
(a)	Logs and Bolts	13455	13661			
(b)	Pulpwood	5827	4574			
(c)	Miscellaneous	229	448			

	Softwood timber (1,000 m³)	(1991 data)	1995	1996	1997	1998	1999
(d)	Mature growing stock	1660000					
(e)	Annual private & provincial allowable cut		na	na			
(f)	Total removals	*(a+b+c)*	19511	18683			
	Allowable cut to growing stock	*(e/d)*	na	na			
	Drain to growing stock	*(f/d)*	0.012	0.011			
	Typical sawtimber costs (US$/m³)						
	Delivered		34	35	40	37	

Oregon

Softwood Roundwood Inventory and Softwood Sawmill Capacity



Timber (cubic meters/hectare)

0	to	10	20	to	40
10	to	20	40+		

Plant Capacity (Thous. Cub. Met.)

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700

Oregon

Mill I.D.	Name	Location	Capacity / Production (1,000 m³) 1995	1996	1997	1998	1999
	Boise Cascade	Elgin	208	208	118		
	Vanport Manufact	Boring	142	142	142	142	
16	Alder Creek Lum Co	Portland	47	47	58	58	58
12	Allen For Products	North Plains	12	12	12	12	12
2	Arrowhead Timber Co	Carver	53	53	53	53	53
64	Blue Mtn	Pendleton	57	57	83	83	83
53	Boise Cascade	Medford	47	47	47	47	47
55	Boise Cascade	White City	80	80	80	80	80
69	Boise Cascade	LaGRande	163	163	175	175	175
73	Burnt River Lum Co	Unity	35	35	19	19	19
46	C and D Lumber Co	Riddle	101	101	106	106	106
1	Cascade Wood Comp	Cascade Locks	130	130	130	130	130
29	Cascadian	Eugene	24	24	24	24	24
58	Collins Pine	Lakeview	54	54	54	54	54
56	Croman	Ashland	177	177	177	177	177
62	Crown Pacific	Prineville	132	130	142	170	170
60	Crown Pacific	Gilchrist	217	212	267	293	293
41	Davidson Industr.	Mapleton	13	13	13	13	13
52	Douglas Co For Prod	Winchester	283	283	283	283	283
47	DR Johnson Lumber Co	Riddle	118	118	118	118	118
67	DR Johnson Lumber Co	John Day	118	118	118	118	118
37	DR Johnson Lumber Co	Dillard	142	170	170	170	170
72	DR Johnson Lumber Co	Prairie City	189	260	212	212	212
54	Encore Group	Central Pt.	111	111	113	127	127
7	Floragon	Molalla	90	90	116	116	116
24	Frank Lumber Co	Mill City	165	177	177	177	177
59	Fremont	Lakeview	106	106	106	106	106
22	Freres Lumber Co	Lyons	24	24	24	24	24
10	Friesen Lumber Co	St. Helens	241	241	238	248	248
25	Georgia Pacific	Philomath	224	224	264	264	264
33	Georgia Pacific	Coos Bay	203	203	271	271	271
20	Hampton Affiliates	Grand Ronde	61	61	59	59	59
14	Hampton Affiliates	Tillamook	415	415	474	472	472
28	Hampton Affiliates	Willamina	545	545	776	776	776
45	Herbert Lumber Co	Riddle	35	35	35	35	35
42	Hull-Oakes	Monroe	54	54	54	54	54
68	Joseph Timber Co	Joseph	33	33	33	33	33
48	Keller Lumber Co	Roseburg	52	52	52	52	52

	Softwood lumber (1,000 m³)	1995	1996	1997	1998	1999
	Number of sawmills	76	76	76	75	74
	Estimated capacity	11570	11759	12579	12674	12542
(a)	Reported output (U.S. Census)	11394	12284	13565		
	Implied capacity utilization	0.98	1.04	1.08		
	Softwood plywood					
	Estimated capacity	4201	4148	3935	3475	3320
(b)	Reported output (A.P.A.-Eng.Wd.Assoc.)	3384	3339	3072		
(c)	Particleboard/MDF (Composite Panel Assoc)	2713	2668	2814	2835	
(d)	Log exports (U.S. Census)	868	823	462		
(e)	Chip exports (U.S. Census)	2659	2462	2454		
(f)	Softwd. pulpwood receipts(A.Pulpwd.A.)	5928	5785	6456		
(g)	Approximate drain *(a+b+d+e+f)*	26947	27360	28822		

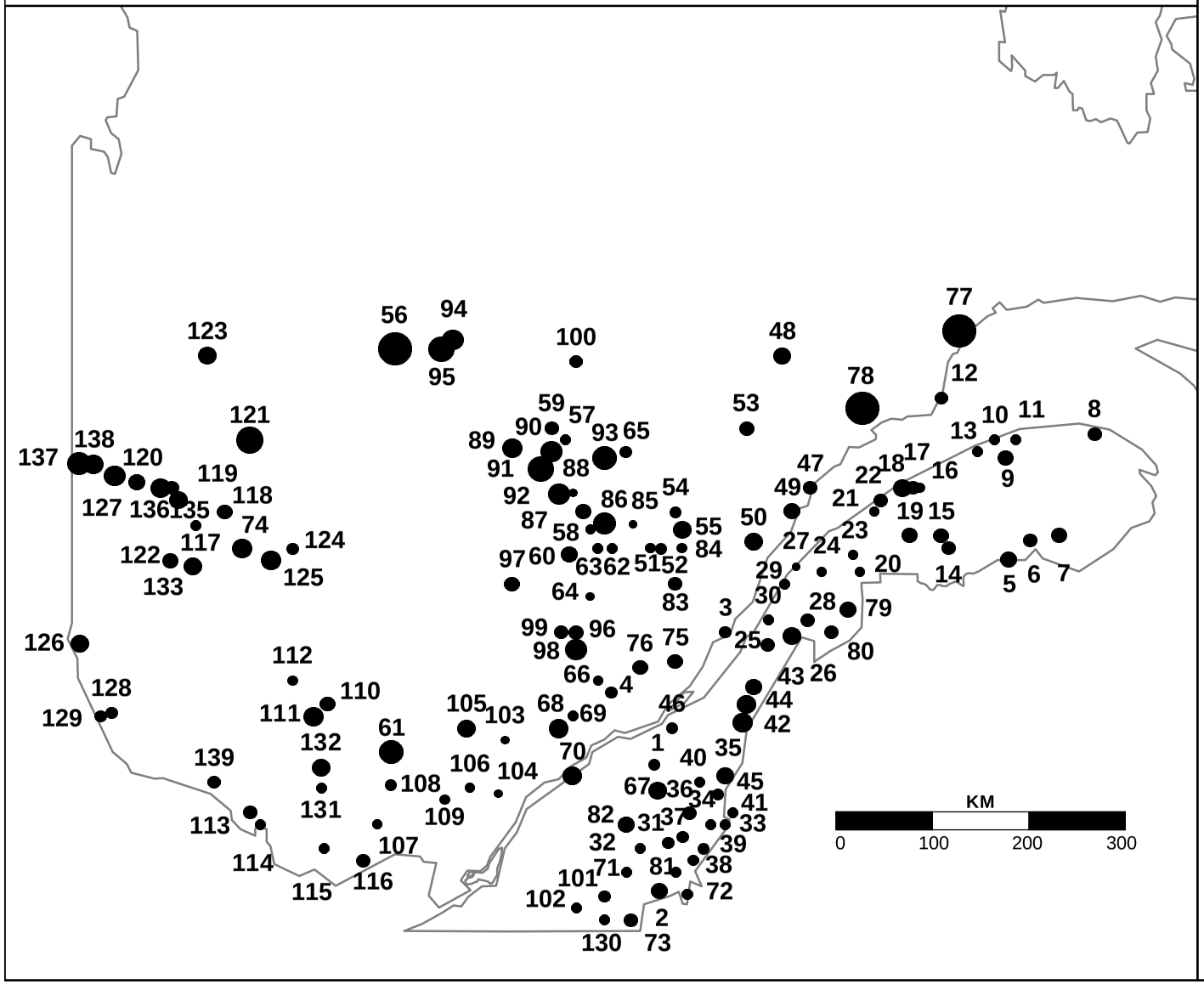
Mill I.D.	Name	Location	Capacity / Production (1,000 m³) 1995	1996	1997	1998	1999
71	Kinzua	Pilot Rock	94	94	94	94	94
65	Kinzua	Heppner	133	133	133	133	133
18	Mary's River Lum	Corvallis	106	106	106	106	106
8	Molalla For Prod	Molalla	177	177	189	189	189
6	Morgan Co	Hood River	130	130	130	130	130
61	Ochoco Lumber Co	Prineville	92	92	83	83	83
66	Ochoco Lumber Co	John Day	80	80	80	100	100
27	Rainier Wood prod	Sweet Home	22	22	22	22	22
50	Rosboro	Springfield	413	413	413	413	413
36	Roseburg	Dillard stud	99	99	99	99	99
38	Roseburg	Dillard #1	208	208	208	208	208
57	Rough&Ready	Cave Junction	149	149	149	149	149
5	RSG For Prod	Estacada	71	71	71	71	71
4	RSG For Prod	Mist	212	179	212	212	212
9	RSG For Prod	Molalla	330	330	366	354	354
31	Seneca sawmill	Eugene	522	557	557	557	557
32	South Coast Lumber o	Brookings	236	236	283	283	283
34	Starfire Lumber	Cottage Grove	59	59	59	59	59
3	Stimson	Clatskanie	85	85	85	85	85
11	Stimson	Forest Grove	215	215	215	215	215
49	Sun Studs	Roseburg	236	236	236	236	236
51	Sundance	Springfield	59	59	71	71	71
39	Superior Lumber Co	Glendale	165	165	198	212	212
44	Swanson-Superior	Noti	170	170	194	194	194
43	Swanson Bros	Noti	47	47	47	71	71
26	Taylor Lum & Treat Co	Beaverton	201	201	201	201	201
13	TreeSource	Tillamook	120	120	120	120	120
70	TreeSource	North Powder	137	137	146	146	146
40	TreeSource	Glide	217	203	212	212	212
17	Triple T Studs	Cascadia	71	71	71	71	71
74	Wallowa Forest Prod	Wallowa	89	89	89	89	89
63	Warm Springs F P	Warm Springs	142	142	135	196	196
35	Weyerhaeuser	Cottage Grove	496	496	496	496	496
19	Willamette	Dallas	208	212	281	281	283
30	Willamette	Eugene/coburg	253	260	307	321	321
21	Willamette	Lebanon	278	267	330	347	354
15	Willamette	Warrenton	208	304	359	359	359
23	Young&Morgan	Mill City	139	139	139	139	139

	Softwood timber (1,000 m³)	(1992 data)	1995	1996	1997	1998	1999
(h)	Growing stock (excl. FS & BLM	576544					
(i)	Net growth + mortality (ex fed)	25367					
	Drain estimate (all sources)	37369					
(i/h)	Growth to growing stock	0.044					
(f/h)	Drain to growing stock		0.047	0.047	0.050		
(f/i)	Drain to growth		1.06	1.08	1.14		
(h-f)/g	Relative surplus		-0.003	-0.003	-0.006		

Typical wood costs					
Sawtimber ($/m³)					
State owned	108	97	91		
Delivered, #2 sawmill, douglas & hem-fir	132	124	126	110	

Quebec

Softwood Sawmill Capacity



Plant Capacity (Thous. Cub. Met.)

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700

Quebec

Mill I.D.	Name	Location	Capacity / Production (1,000 m³) 1995	1996	1997	1998	1999
98	Abitibi Consolidated	La Tuque		118	236	295	295
86	Abitibi Consolidated	Roberval	224	224	224	323	323
55	Abitibi Consolidated	Saint Fulgence	189	189	189	194	194
31	AD Bernier Inc	Lambton	71	71	71	71	71
46	Alexandre Cote Inc	Scott-Junction	59	59	59	59	59
7	Assoc. Coop Forest de St Elzear	St. Elzear	83	153	153	153	153
56	Barette Chapais Lte	Chapais	420	420	519	673	708
130	Beaubois Coaticook Inc	Coaticook	47	47	47	47	47
71	Blanchette & Blanchette Inc.	Saint Gerard	47	47	47	47	47
83	Bois Blanchette Inc	Berniers	99	99	99	99	99
42	Bois Daaqam Inc	St Just de Bretenieres	248	248	248	248	248
107	Bois Omega Lte	Lac Superieur	38	38	38	35	35
54	Bois Valin Inc	Saint Fulgence	59	59	59	59	59
50	Boisaco Inc	Sabre-Coeur	142	142	153	201	201
39	Carrier & Begin	Saint Honore	47	47	59	59	59
37	Clermond Hamel Inc	St. Ephrem de Beauce	59	59	59	66	66
52	Cooperative Forestiere LaTerriere	Laterriere	57	57	57	57	57
69	Cooperatives des Travailleurs	Saint Tite	52	52	52	52	52
76	Daishowa Inc	Saint Emile	87	87	106	127	127
13	Deniso Lebel Inc	Cap Chat	59	59	59	47	47
30	Deniso Lebel Inc	St. Josef de Kamouraska	59	59	59	47	47
111	Domtar	Grand Remous	212	212	212	236	236
121	Domtar	Lebel sur Quevillon	342	425	448	448	448
122	Domtar	Malartic	153	153	153	153	153
123	Domtar	Matagami	201	201	201	201	201
75	Domtar	Saint Aurelie	142	142	142	142	142
82	Domtar	Sainte Marie	118	118	118	165	165
133	Domtar	Val D'Or	207	207	236	271	271
78	Donohue	Baie Comeau/Pt Outarde	312	472	623	708	802
118	Donohue	Champneuf	207	207	166	120	120
2	Donohue	Chateau Richer	172	172	177	177	177
94	Donohue	Chibougamou	189	283	283	283	283
90	Donohue	Girardville	307	307	307	307	307
91	Donohue	La Dore	241	255	283	366	425
53	Donohue	Petit Saguenay	50	50	59	118	118
3	Donohue	Saint Hilarion	66	66	66	71	71
87	Donohue	Saint Prime	78	78	144	153	153
89	Donohue	Saint Thomas Didyme	231	231	231	241	241
125	Donohue	Senneterre	172	172	201	236	236
64	E. Tremblay & Fils	Saint Bruno	14	14	14	14	14
21	Felix Huard Inc	Luceville	35	35	35	35	35
24	Fernand Bois Lte	Lac de Aigles	38	38	38	38	38
105	Forex	St Michel de Saints	149	149	177	212	212
35	Francois Giguere Inc	Sainte Aurelie	189	189	189	236	260
109	G M Dufour Inc	St. Faustin	40	40	40	40	40
8	GDS Bois Granval Inc	Grand Vallee	104	104	104	104	104
9	GDS Bois Marsoui Inc	Marsoui	153	153	153	153	153
66	Gerard Crete & Fils	Notre-Dame-de-Montaub	35	35	35	35	35
67	Gerard Crete & Fils	Saint Severin	201	201	201	201	201
68	Gerard Crete & Fils	St.-Roch-de-Mekinac	153	153	177	236	236
96	Gerard Crete & Fils Inc	La Tuque			83	117	118
97	Gerard Crete & Fils Inc	Riviere Windigo	142	142	142	142	142
4	Gestofor Inc	Saint Raymond	71	71	71	76	76
14	Groupe Cedrico Inc	Causapscal	106	106	106	106	106
11	Groupe Cedrico Inc	La Martre	54	54	54	54	54
15	Groupe Cedrico Inc	Lac du Saumon	130	130	130	130	130
16	Groupe Cedrico Inc	Price	47	47	47	42	42
19	Groupe Cedrico Inc	Sainte Florence	94	94	94	153	153
112	Henri Rademacher et Fils	Saiten-Veronique	47	47	47	45	45
80	Industries G D S Inc	Degelis	94	94	94	94	94
43	Industries Maibec Inc	Saint-Pamphile	165	165	165	165	165
34	Industries Paquet	St. Theophile	52	52	52	52	52
40	Irenee Grondin & Fils	St. Zacharie	47	47	47	47	47
73	J A Fontaine & Fils Inc	St. Augustine de Woburn	104	104	104	104	104
25	J D Irving	Pohenegamook	74	74	74	94	94
41	J G Allen Industries inc	St. Zacharie	52	52	52	52	52
106	Jean Riopel Inc	St.-Theodore-de-Chertsy	35	35	35	35	35
47	Kruger	Forestville	101	101	101	177	177
70	Kruger	Trois Rivieres	212	212	224	224	224

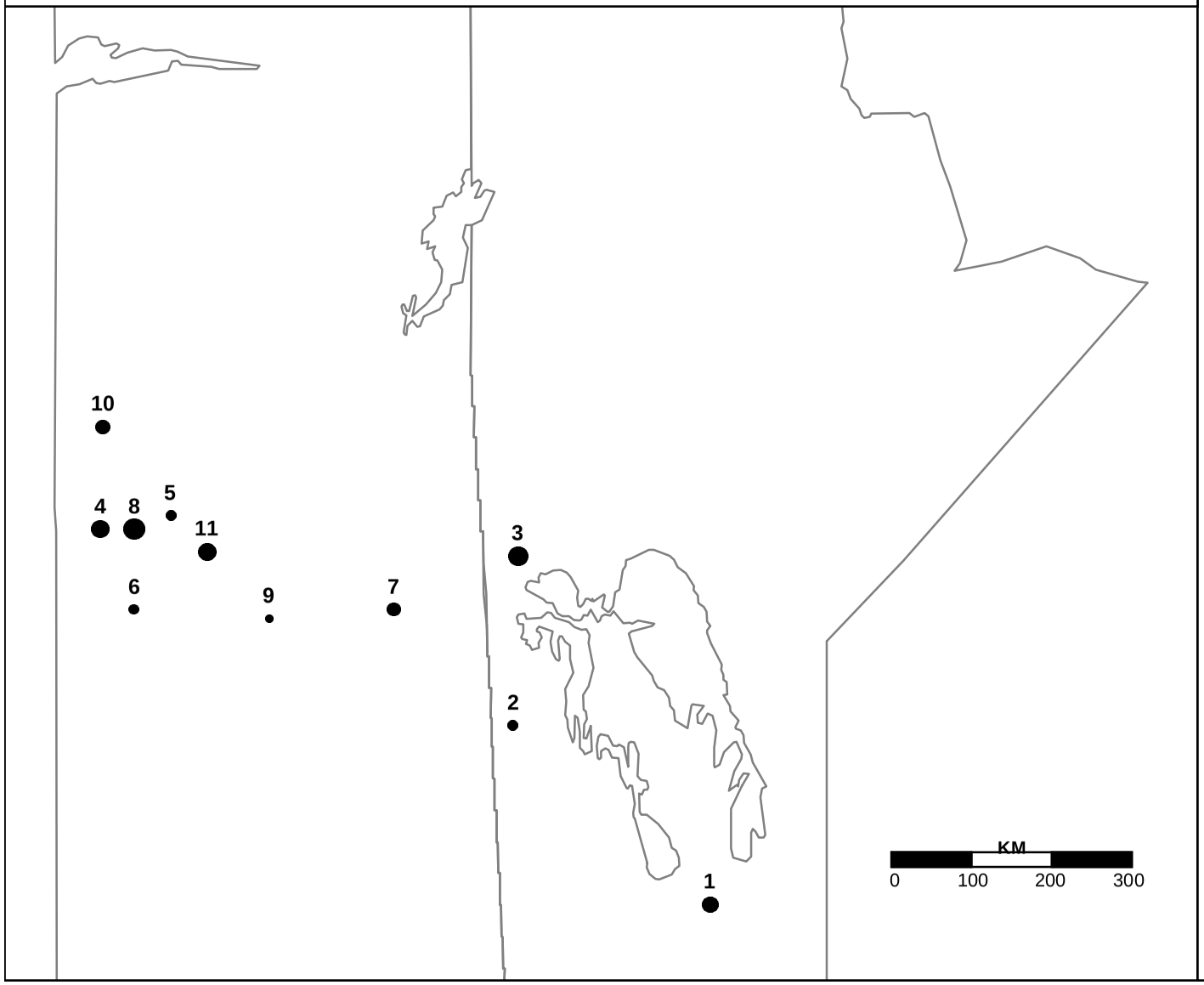
Mill I.D.	Name	Location	Capacity / Production (1,000 m³) 1995	1996	1997	1998	1999
138	La Compagnie Commonwealth Plywo	Rapides des Joachims	83	83	83	83	83
128	La Compagnie Commonwealth Plywo	Riviere-Kipawa	71	71	71	71	71
26	La Scierie Aime Gaudreau	Pohenegamook	201	201	201	201	201
49	La Scierie Jacques Bealieu Lte	St. Paul du Nord	177	177	177	177	177
85	La Scierie Martel Lte	Alma	17	17	17	17	17
62	La Scieries du Lac St. Jean	Metabechouan	35	40	35	50	50
95	Les Chantiers de Chibogamou Lte	Chibougamau	354	354	389	425	425
115	Les Enterprises Atlas (1985) Inc	Low	47	47	47	47	47
63	Les Industries Piekougame Inc	Mashteuiatsh	47	47	47	47	47
135	Les Materiaux Blanchet Inc	Amos	236	236	236	236	236
44	Les Materiaux Blanchet Inc	Saint-Pamphile	224	224	224	224	224
108	Les Produits Forestiers B&B Inc	La Minerve	59	59	59	59	59
27	Les Produits Forestiers Dube Inc	L'Isle-Verte	12	12	12	12	12
22	Lulumco	Luceville	90	90	90	90	90
132	Manifor Inc	Maniwaki	212	212	212	212	212
101	Marcel Lauzon Inc	East Hereford	73	73	78	80	80
110	Max Meilleur & Fils	Ferme Neuve	142	142	142	142	142
81	Megabois (1989) Inc	Lac Megantic	47	47	47	47	47
20	Multi Cedres	Esprit-Saint	35	35	35	35	35
72	Multibois	St. Augustine de Woburn	52	52	52	52	52
137	Norbord	La Sarre	189	189	189	236	236
74	Norbord	Senneterre	189	189	189	236	236
117	Optibois	Barraute	47	47	47	47	47
29	Pabaced GDS Inc	St. Eusebe	47	47	47	47	47
60	Panneaux Chambord Inc	Lac Bouchette	165	165	165	165	165
102	Paul Vallee Inc	Clifton Partie est	47	47	47	47	47
1	Preparbois	Lac Frontiere	57	57	57	57	57
6	Produit Forestier St. Alphonse	St. Romuald	106	106	106	106	106
48	Produit Forestiers Labrieville	Lac au Brochet	165	177	177	189	189
114	Produits Forestiere Coulonge Inc	Fort Coulonge	52	52	52	52	52
79	Produits Forestiers Alliance Inc	Degelis	177	177	177	177	177
23	Produits Forestiers Alliance Inc	Lac des Aigles	35	35	35	35	35
93	Produits Forestiers Alliance Inc	Mistassini	177	236	295	368	368
18	Produits Forestiers Alliance Inc	Price	118	118	142	201	201
28	Produits Forestiers Alliance Inc	Riviere-Bleu	94	94	94	94	94
92	Produits Forestiers Alliance Inc	St Felicien	189	307	307	307	307
99	Produits Forestiers La Tuque Inc	La Tuque	97	97	97	97	97
10	Produits Forestiers LMC Inc	La Martre	54	54	54	54	54
100	Produits Forestiers Petit Paris Inc	St.-Ludger-de-Milot	89	89	89	89	89
116	Produits Forestiers Turpin Inc	Thurso	94	94	94	94	94
32	Real Grondin Inc	St. Come de Kennebec	47	47	47	47	47
45	Rene Bernard Inc	Beauceville-Ouest	59	59	59	59	59
88	Roland Castonguay & Fils Lte	Saint Felicien	21	21	21	21	21
134	Scierie Amos Lte	Amos	106	106	106	106	106
12	Scierie Baie Trinite	Baie Trinite	83	83	83	83	83
59	Scierie C F G Inc	Girardville	42	42	87	106	106
131	Scierie Cedco Inc	Montcerf	50	50	50	50	50
113	Scierie Davidson	Mansfield et Pontefract	106	106	106	106	106
120	Scierie Gallichan Inc	Launay	153	153	153	159	159
36	Scierie Jules LaFlamme	St. Benoit Labre	94	94	94	94	94
119	Scierie Landrienne Inc	Landrienne	148	148	148	194	194
51	Scierie Laterriere Limitee	Laterriere	35	35	35	35	35
57	Scierie Mailloux Inc	DeLisle	50	50	50	50	50
17	Scierie Mitis Inc	Price	103	103	103	103	103
58	Scierie P H LeMay & Fils	St. Francois	35	35	35	35	35
84	Scierie Saguenay Lte	La Baie	40	40	40	40	40
124	Scierie Senco Lte	Senneterre	71	71	71	71	71
104	Scierie St Jean Matha	St. Jean de Matha	18	18	18	18	18
103	Scierie Tessier & LeChance	Sainte Elizabeth	19	19	19	19	19
65	Scierie Thomas Louis Tremblay Inc	Saint Monique	59	59	64	71	71
126	Tembec	Bearn	146	146	156	212	212
136	Tembec	La Sarre	189	189	219	330	330
5	Tembec	Nouvelle	177	177	177	177	177
127	Tembec	Tascherau	184	184	177	283	283
129	Tembec	Temiscaming	59	59	59	59	59
61	Uniforet Scierie Pate Inc (Peribonka)	L'Ascension	283	236	366	366	366
77	Uniforet Scierie Pate Inc (Port Cartier	Port Cartier				354	708
38	Usine Sartigan Inc	Saint Honore	52	52	52	54	54
33	Wilfrid Paquet & Fils	St. Theophile	47	47	52	52	52

	Softwood lumber (1,000 m³)	1995	1996	1997	1998	1999
	Number of sawmills	135	136	137	138	138
	Estimated capacity	15164	15850	16893	18931	19498
	Reported output (Stat. Can.)	13786	14920	15517		
	Implied capacity utilization	0.91	0.94	0.92		
	Softwood Roundwood Removals					
(a)	Logs and Bolts	28526	27363			
(b)	Pulpwood	3008	2062			
(c)	Miscellaneous	143	93			

	Softwood timber (1,000 m³)	(1991 data)	1995	1996	1997	1998	1999
(d)	Mature growing stock	1700000					
(e)	Annual private & provincial allowable cut		37518	37518	37518	37518	37518
(f)	Total removals	*(a+b+c)*	31677	29518			
	Allowable cut to growing stock	*(e/d)*	0.022	0.022			
	Drain to growing stock	*(f/d)*	0.019	0.017			
	Typical sawtimber costs (US$/m³)						
	Delivered		35	36	41	37	

Saskatchewan and Manitoba

Softwood Sawmill Capacity



Plant Capacity (Thous. Cub. Met.)

10

355

700

Saskatchewan/Manitoba

Mill I.D.	Name	Location	Capacity / Production (1,000 m³) 1995	1996	1997	1998	1999
4	Clearwater Forest Products	Meadow Lake, SK	142	194	194	203	203
5	Green Lake Metis	Green lake, SK	47	47	47	47	47
6	L&M Products	Glaslyn , SK	42	42	42	42	42
7	McMillan Bloedell	Carrot River, SK	106	106	106	106	106
8	Norsask For Prod	Meadow Lake, SK	271	283	295	295	295
9	Provincial For Products	Prince Albert, SK	14	14	14	14	14

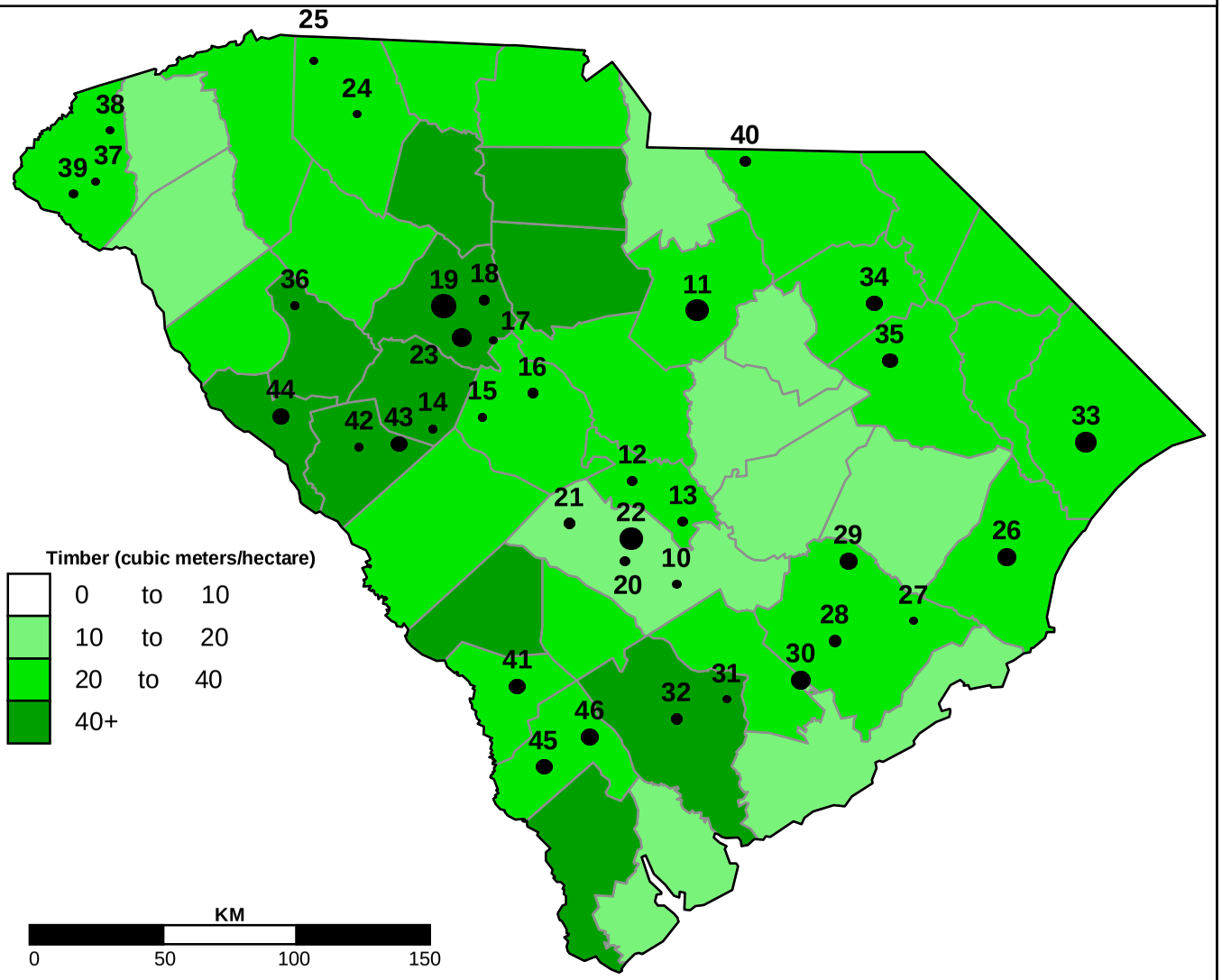
	Softwood lumber (1,000 m³)	1995	1996	1997	1998	1999
	Number of sawmills	10	10	10	10	11
	Estimated capacity	1166	1241	1267	1300	1418
	Reported output (Stat. Can.)	886	906	883		
	Implied capacity utilization	0.76	0.73	0.70		
	Softwood Roundwood Removals					
(a)	Logs and Bolts	2677	2646			
(b)	Pulpwood	1505	1283			
(c)	Miscellaneous	237	184			

Mill I.D.	Name	Location	Capacity / Production (1,000 m³) 1995	1996	1997	1998	1999
1	Sawyer Wood Products	Winnipeg, MA	94	94	94	94	94
2	Spruce Products Ltd	Swan River, MA	47	47	47	47	47
3	Tolko	The Pas, MA	189	201	212	236	236
10	Weyerhaeuser	Buckland, SK					118
11	Weyerhaeuser	Big River, SK	212	212	215	215	215

	Softwood timber (1,000 m³)	(1991 data)	1995	1996	1997	1998	1999
(d)	Mature growing stock	464000					
(e)	Annual private & provincial allowable cut		9619	9619	9619		
(f)	Total removals	*(a+b+c)*	4419	4113			
	Allowable cut to growing stock	*(e/d)*	0.021	0.021	0.021		
	Drain to growing stock	*(f/d)*	0.010	0.009			
	Typical sawtimber costs (US$/m³)						
	Delivered		32	39	40	38	

South Carolina

Softwood Roundwood Inventory and Softwood Sawmill Capacity



Plant Capacity (Thous. Cub. Met.)

10

355

700

South Carolina

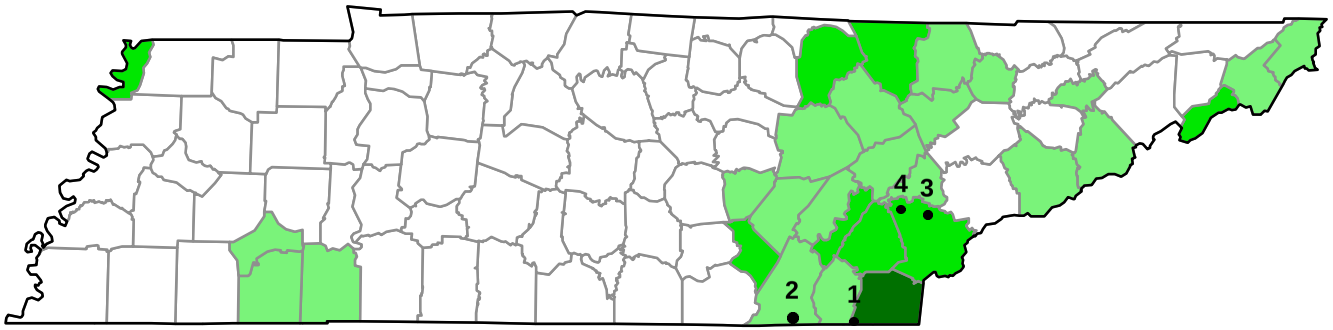
Mill I.D.	Name	Location	Capacity / Production (1,000 m³) 1995	1996	1997	1998	1999
36	A & M Lumber Inc	Hodges	12	12	12	12	12
25	Arnold Emery Lumber Co	Campobello	6	6	6	6	6
42	B. L. Mims & Son Lumber Co	Edgefield	12	12	12	12	12
13	Cameron Lumber Co	Cameron	28	28	28	28	28
35	Charles Ingram Lumber Co	Effingham	99	103	101	99	99
27	Charleston Heartpine Co	Jamestown	6	6	5	6	6
34	Chesterfield Lumber Co Inc	Darlington	61	83	83	123	123
24	Clement Lumber Co Inc	Spartanburg	6	7	7	6	6
32	Coastal Lumber Co	Walterboro	35	35	35	47	47
41	Collums Lumber Mill	Allendale	142	142	142	142	142
12	Collums Lumber Mill	Cameron	28	26	28	28	28
40	C. M. Tucker Lumber Co	Pageland	42	42	42	42	42
17	Derrick Lumber Co	Little Mountain	5	5	5	5	5
18	Dickert Lumber Co	Newberry	38	38	38	38	38
21	Edwards Lumber Co	Orangeburg	7	29	46	47	47
45	Elliott Sawmilling Co	Estill	122	122	122	122	122
37	F. B. Davis Sawmill	Richland	11	11	11	11	11
44	Georgia-Pacific Corp	McCormick	94	130	130	149	149
23	Georgia-Pacific Corp	Prosperity	170	177	201	201	201
29	Georgia-Pacific Corp	Russellville	142	153	170	165	165
46	Georgia-Pacific Corp	Varnville	153	165	170	170	170
15	Hutton Lumber Co	Leesville	17	17	17	17	17
43	International Paper Corp	Johnston	142	142	142	142	142
19	International Paper Corp	Newberry	307	295	333	328	328
26	International Paper Corp	Sampit	189	179	184	189	189
16	M. L. Corley & Sons Sawmill	Lexington	35	35	35	35	35
11	New South Inc	Camden	264	271	278	283	283
33	New South Inc	Conway	236	260	253	253	253
14	Ridge Lumber Inc	Leesville	14	14	14	14	14
22	Stone Forest Industries	Orangeburg	295	295	295	295	295
39	Thrift Brothers Lumber Co	Westminster	9	19	18	18	18
28	Umphlett Lumber Co	Moncks Corner	57	57	57	57	57
31	Upchurch Inc	Walterboro	11	11	11	11	11
10	V. P. Kiser Lumber Co	Bowman	21	21	21	21	21
20	Warren & Griffin Inc	Orangeburg	31	31	31	31	31
30	Westvaco Corp	Summerville	210	208	217	217	217
38	Winchester Brothers	Salem	6	6	6	6	6

	Softwood lumber (1,000 m³)	1995	1996	1997	1998	1999
	Number of sawmills	37	37	37	37	37
	Estimated capacity	3063	3192	3304	3373	3373
(a)	Reported output (U.S. Census)	2877	3070	3191		
	Implied capacity utilization	0.94	0.96	0.97		
	Softwood plywood					
	Estimated capacity	693	693	693	693	693
(b)	Reported output (A.P.A.-Eng.Wd.Assoc.)	671	641	638		
	OSB					
	Estimated capacity					
(c)	Reported output (A.P.A.-Eng.Wd.Assoc.)					
(d)	Particleboard/MDF (Composite Panel Asso	793	804	852	853	
(e)	Softwd. pulpwood receipts(A.Pulpwd.A.)	6868	6242	9494		
(f)	Approximate drain *(a+b+d+e)*	11209	10758	14175		

	Softwood timber (1,000 m³) (1993 data)		1995	1996	1997	1998	1999
(g)	Growing stock	227595					
(h)	Net growth + mortality	16878					
	Drain estimate (all sources)	13938					
(h/g)	Growth to growing stock	0.074					
(f/g)	Drain to growing stock		0.049	0.047	0.062		
(f/h)	Drain to growth		0.66	0.64	0.84		
(h-f)/g	Relative surplus		0.025	0.027	0.012		
	Typical wood costs						
	Pine sawtimber ($/m³)						
	Standing		59	59	67	69	
	Delivered		73	76	85	88	

Tennessee

Softwood Roundwood Inventory and Softwood Sawmill Capacity



Timber (cubic meters/hectare)

- 0 to 10
- 10 to 20
- 20 to 40
- 40+

KM
0 50 100 150

Plant Capacity (Thous. Cub. Met.)

- 10
- 355
- 700

Tennessee

Mill I.D.	Name	Location	Capacity / Production (1,000 m³) 1995	1996	1997	1998	1999
1	Conasauga River Lumber Co	Conasauga	9	9	9	9	9
2	East Brainerd Lumber Co	Chattanooga	35	35	35	35	35

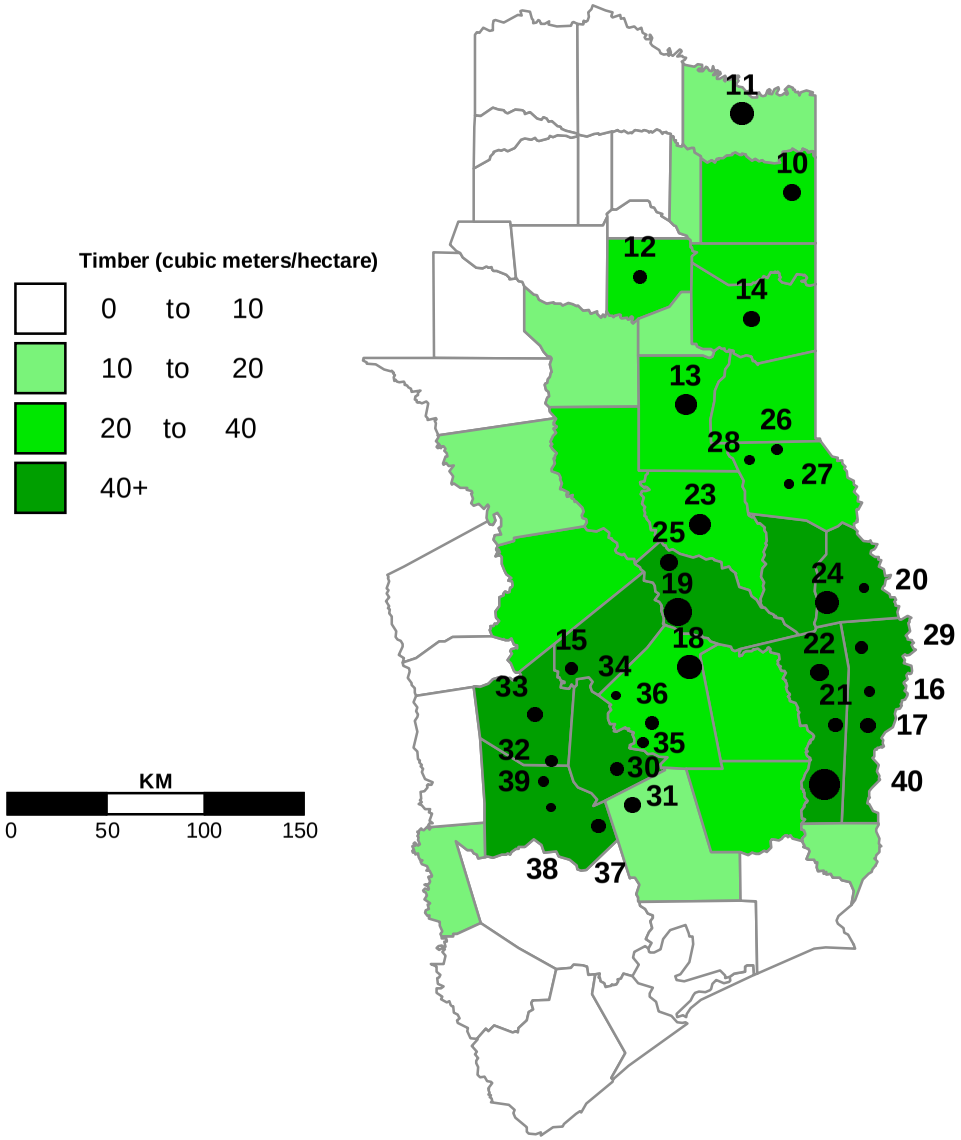
	Softwood lumber (1,000 m³)	1995	1996	1997	1998	1999
	Number of sawmills	3	3	3	3	3
	Estimated capacity	56	56	56	56	56
(a)	Reported output (U.S. Census)	290	307	316		
	Implied capacity utilization	5.17	5.47	5.63		
	Softwood plywood					
	Estimated capacity					
(b)	Reported output (A.P.A.-Eng.Wd.Assoc.)					
	OSB					
(c)	Estimated capacity			53	336	336
	Reported output (A.P.A.-Eng.Wd.Assoc.)					
(d)	Particleboard/MDF (Composite Panel Assoc)					
(e)	Softwd. pulpwood receipts(A.Pulpwd.A.)	2330	2400	2270		
(f)	Approximate drain *(a+b+c+d+e)*	2620	2706	2639		

Mill I.D.	Name	Location	Capacity / Production (1,000 m³) 1995	1996	1997	1998	1999
3	Pedigo Lumber Co	Sweetwater	12	12	12	12	12

	Softwood timber (1,000 m³)	(1992 data)	1995	1996	1997	1998	1999
(g)	Growing stock	82098					
(h)	Net growth + mortality	3700					
	Drain estimate (all sources)	2539					
(h/g)	Growth to growing stock	0.045					
(f/g)	Drain to growing stock		0.032	0.033	0.032		
(f/h)	Drain to growth		0.71	0.73	0.71		
(h-f)/g	Relative surplus		0.013	0.012	0.013		
	Typical wood costs						
	Pine sawtimber ($/m³)						
	Standing		36	31	37	39	
	Delivered		51	54	53	58	

Eastern Texas

Softwood Roundwood Inventory and Softwood Sawmill Capacity



Plant Capacity (Thous. Cub. Met.)

10

355

700

Texas

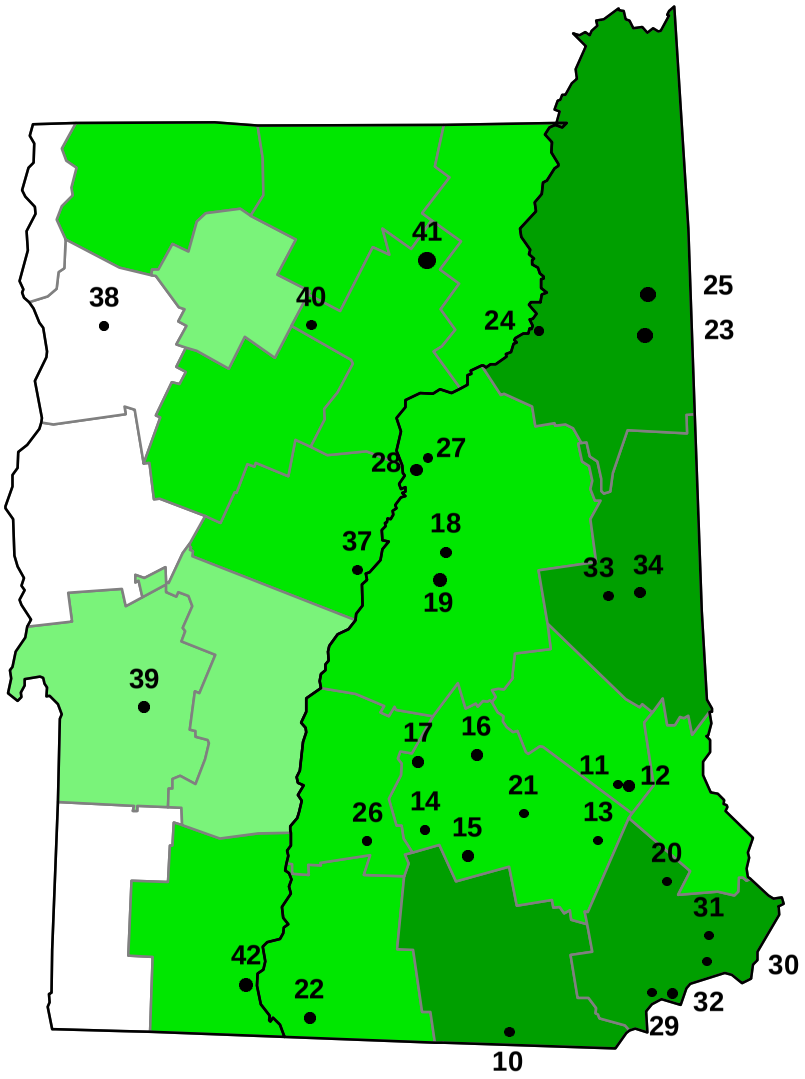
Mill I.D.	Name	Location	Capacity / Production (1,000 m³) 1995	1996	1997	1998	1999
	Louisiana-Pacific Corp	New Waverly	212	35	35	35	
10	Anthony Forest Prod	Atlanta	71	83	118	118	118
26	Arkansas Forest Prod Inc	Tenaha	28	28	28	28	28
15	Atchley Lumber & Supply Co	Trinity	53	53	53	53	53
39	A. H. Forestry Prod Inc.	Willis	24	24	24	24	24
23	Cal-Tex Lumber Co Inc	Nacogdoches	227	205	205	212	212
18	Champion International Corp	Camden	260	267	290	271	283
30	CLW Inc	Cleveland	61	61	61	61	61
36	CLW Inc	Livingston	61	61	61	61	61
12	Dean Lumber Co Inc	Gilmer	59	57	57	59	59
37	Duke City Lumber Co Inc	Splendora	74	74	74	74	74
34	Eas-Tex Lumber Co Inc.	Livingston	9	9	9	9	9
20	G. D. Edgar Lumber Co Inc	Hemphill	13	13	13	13	13
25	Hampton Affiliates	Pollok	85	26	61	118	118
21	Hart Lumber Co	Jasper	71	71	71	71	71
13	International Paper Corp	Henderson	201	203	201	201	201
11	International Paper Corp	New Boston	201	255	255	255	255
17	Louisiana-Pacific Corp	Bon Wier	47	83	83	83	83
31	Louisiana-Pacific Corp	Cleveland	94	106	106	106	106
22	Louisiana-Pacific Corp	Jasper	91	130	130	130	130
38	Mountain Man Inc	Willis	8	8	8	8	8
28	Nix Forest Industries Inc	Timpson	18	18	18	18	18
35	Ogletree Forest Prod Inc	Livingston	24	24	24	24	24
16	Pinnacle Wood Prod Inc	Bon Wier	28	28	28	28	28
27	Ross Lumber Co	Timpson	17	17	17	17	17
14	Snider Industries Inc	Marshall	106	106	106	106	106
32	Steely Lumber Co Inc	Huntsville	40	40	40	40	40
24	Temple-Inland Forest Prod Corp	Pineland	175	175	175	208	236
19	Temple-Inland Forest Prod Corp	Diboll	295	295	295	295	354
40	Temple-Inland Forest Prod Corp	Buna	375	375	375	437	437
33	Walker Brothers Lumber Co	Huntsville	89	89	89	89	89
29	Wiergate Lumber Co Inc	Wiergate	47	47	47	47	47

	Softwood lumber (1,000 m³)	1995	1996	1997	1998	1999
	Number of sawmills	32	32	32	32	31
	Estimated capacity	3164	3065	3157	3299	3363
(a)	Reported output (U.S. Census)	3302	3146	3342		
	Implied capacity utilization	1.04	1.03	1.06		
	Softwood plywood					
	Estimated capacity	1850	1832	1792	1620	1385
(b)	Reported output (A.P.A.-Eng.Wd.Assoc.)	1740	1825	1418		
	OSB					
	Estimated capacity	690	974	1221	1389	1474
(c)	Reported output (A.P.A.-Eng.Wd.Assoc.)	666	754	1174		
(d)	Particleboard/MDF (Composite Panel Assoc)	337	337	358	358	
(e)	Softwd. pulpwood receipts(FPL estimate)	7980	7854	7724		
(f)	Approximate drain *(a+b+c+d+e)*	14025	13916	14016		

	Softwood timber (1,000 m³)	(1992 data)	1995	1996	1997	1998	1999
(g)	Growing stock	223190					
(h)	Net growth + mortality	15788					
	Drain estimate (all sources)	14507					
(h/g)	Growth to growing stock	0.071					
(f/g)	Drain to growing stock		0.063	0.062	0.063		
(f/h)	Drain to growth		0.89	0.88	0.89		
(h-f)/g	Relative surplus		0.008	0.008	0.008		
	Typical wood costs						
	Pine sawtimber ($/m³)						
	Standing		67	57	75	67	
	Delivered		81	79	91	90	

Vermont and New Hampshire

Softwood Roundwood Inventory and Softwood Sawmill Capacity



Timber (cubic meters/hectare)

0	to	10	
10	to	20	
20	to	40	
40+			

KM
0 20 40 60

Plant Capacity (Thous. Cub. Met.)

10

355

700

Vermont/New Hampshire

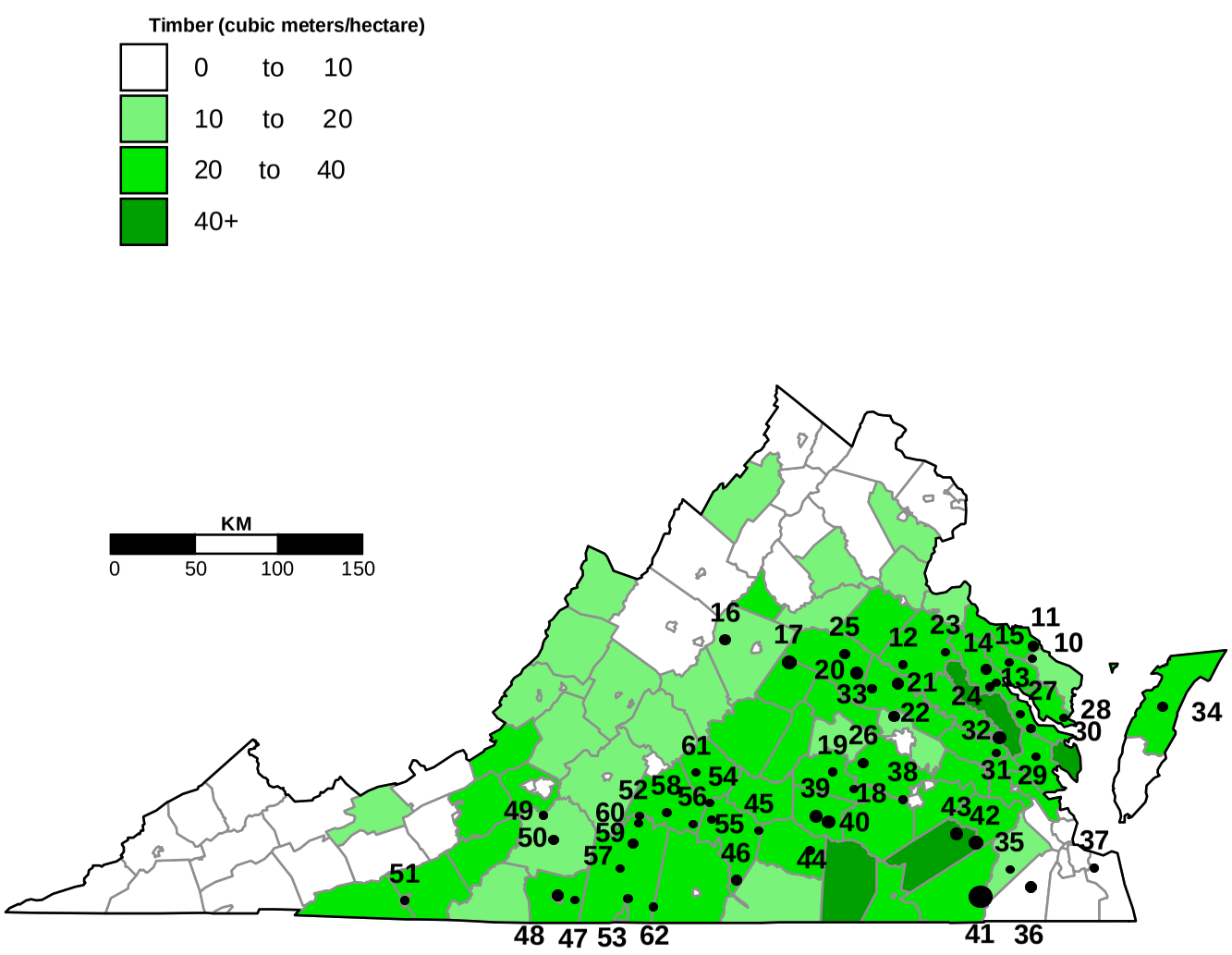
Mill I.D.	Name	Location	Capacity / Production (1,000 m³) 1995	1996	1997	1998	1999
11	Barton Lumber Co	Barnstead, NH	5	6	7	7	7
22	Beaman Lumber Co	Winchester, NH	35	35	35	35	35
33	Bellingham Lumber Co	S. Tamworth, NH	18	18	18	18	18
10	Bingham Lumber Inc	Brookline, NH	21	19	21	21	21
36	Bowater	Ashland, NH	172	172	172	172	172
37	Britton Lumber Co Inc	Fairlee, VT	17	18	18	18	18
42	Cercosimo Lum Co	Brattleboro, VT	54	54	60	60	60
35	Cherokee Lumber Co	Newport, NH	7	7	7	7	7
21	Colby Lumber Co	Boscawen, NH	9	9	9	9	9
16	Diprizio Pine Sales	Middleton, NH	35	35	35	35	35
17	Durgin-Crowell Lumber Co	New London, NH	42	38	38	38	38
41	Encore Group	West Burke, VT	130	101	120	118	118
20	Fernald Lumber Co	Nottingham, NH	7	7	7	7	7
29	Feuer Lumber Co Inc	Atkinson, NH	9	9	9	9	9
13	Goose Bay Sawmill	Chichester, NH	9	9	9	9	9
15	Granite Forest Products Inc	Henniker, NH	35	31	35	35	35
27	H.G. Wood Products Inc	Bath, NH	21	21	21	21	21
34	International Paper Co	W. Ossipee, NH	24	24	24	24	24
19	King Forest Industries Inc	Wentworth, NH	42	59	59	59	59
38	Lamell Lumber Corp.	Essex Junct., VT	14	14	14	14	14
39	Mill River Lumber	N. Clarendon, VT	27	35	35	35	35
30	M.S.K. Lumber Co	E. Kingston, NH	7	7	7	7	7
26	Onnela Lumber Co	Lempester, NH	12	12	12	12	12
14	Patenaude Lumber Co Inc	Henniker, NH	12	12	12	12	12
23	Paul Vallee Lumber Co	Berlin, NH	83	83	83	83	83
25	Paul Vallee Lumber Co	Milan, NH	83	83	83	83	83
40	Pelletier Lumber Corp.	Hardwick, VT	21	20	20	20	20
24	Perras Lumber Co	Lancaster, NH	17	17	17	17	17
18	Precision Lumber	Wentworth, NH	24	24	24	24	24
28	Scierie Davidson	Woodsville, NH	35	35	42	42	42
31	Seacoast Mills Inc	Brentwood, NH	5	7	7	7	7
32	Three Branches Inc	Plaistow, NH	24	24	24	24	24
12	Timco Inc	C. Barnstead, NH	33	33	33	33	33

	Softwood lumber (1,000 m³)	1995	1996	1997	1998	1999
	Number of sawmills	33	33	33	33	33
	Estimated capacity	1090	1077	1117	1115	1115
(a)	Reported output (U.S. Census)	878	868	1001		
	Implied capacity utilization	0.81	0.81	0.90		
	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)	1250	1250	1250		
(e)	Softwd. pulpwood receipts(A.Pulpwd.A.)	275	235	223		
(f)	Approximate drain *(a+b+c+d+e)*	2403	2353	2474		

	Softwood timber (1,000 m³)	(1992 data)	1995	1996	1997	1998	1999
(g)	Growing stock	165754					
(h)	Net growth + mortality	4776					
	Drain estimate (all sources)	2501					
(h/g)	Growth to growing stock	0.029					
(f/g)	Drain to growing stock		0.014	0.014	0.015		
(f/h)	Drain to growth		0.503	0.493	0.518		
(h-f)/g	Relative surplus		0.014	0.015	0.014		
	Typical wood costs						
	Pine (White) sawtimber ($/m³)						
	Standing		23	22	25	27	
	Delivered		48	46	54	50	

Virginia

Softwood Roundwood Inventory and Softwood Sawmill Capacity



Plant Capacity (Thous. Cub. Met.)

10

355

700

Virginia

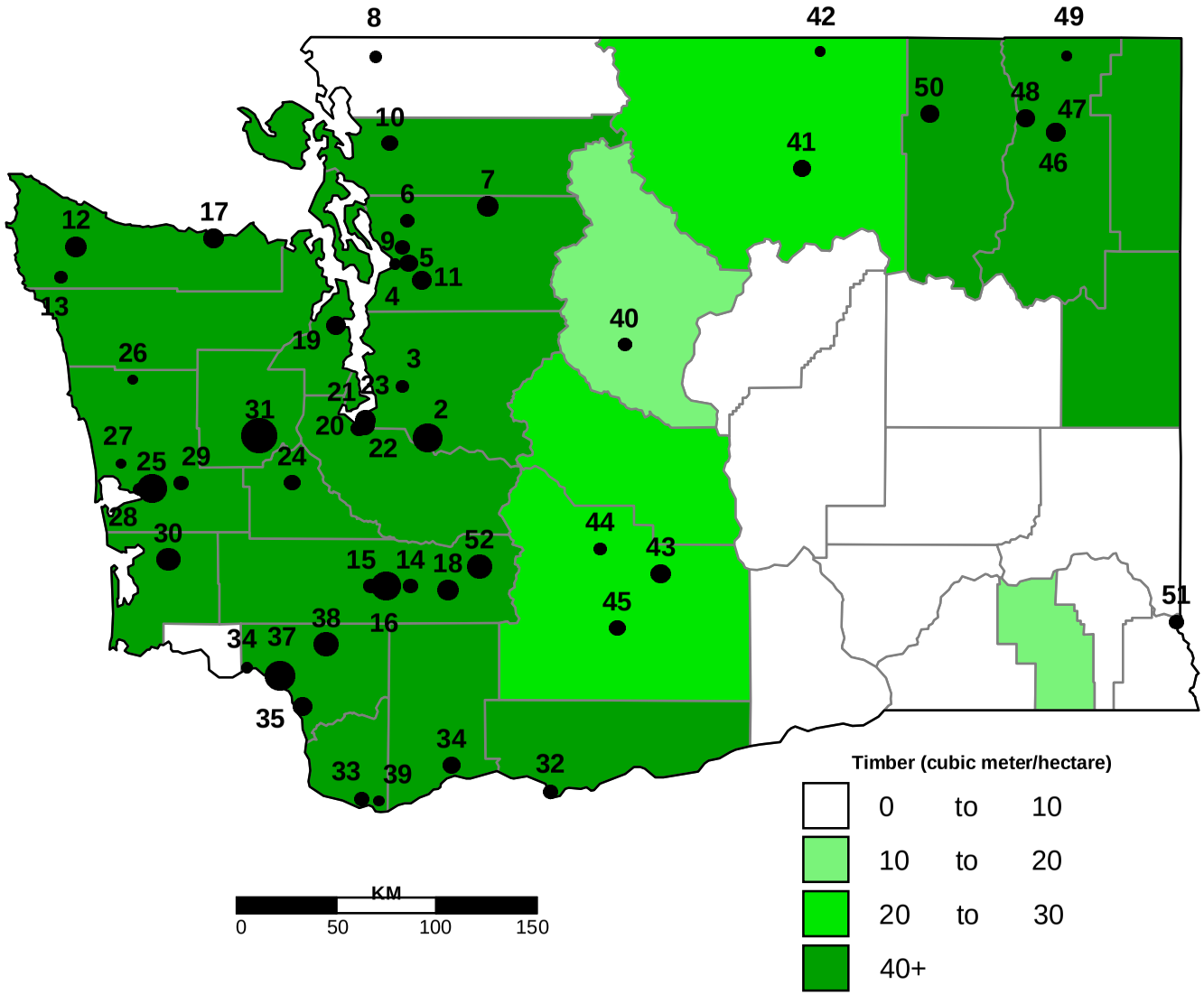
Mill I.D.	Name	Location	Capacity / Production (1,000 m³) 1995	1996	1997	1998	1999
54	Adams Lumber Co	Brookneal	5	5	5	5	5
19	Amelia Lumber Co Inc	Amelia	13	13	13	13	13
18	Anderson Bros Lumber Co	Amelia	8	8	8	8	8
38	A. A. Gibbs Lumber Co	Petersburg	17	17	17	17	17
23	Ball Lumber Co	Millers Tavern	8	8	8	8	8
44	Barnes Manufacturing Co	Kenbridge	18	18	18	18	18
30	Carlton & Edwards Inc	Saluda	11	19	19	19	19
32	Chesapeake Bldg Prod	West Point				59	59
17	Chips Inc	Troy	59	59	83	83	83
62	Cloverdale Lumber Co	Sutherlin	14	14	14	14	14
13	CMH Lumber Co	Tappahannock	5	5	5	5	5
36	Coastal Lumber Co	Suffolk	52	52	52	52	52
50	Cundiff Lumber Co	Rocky Mount	14	24	24	24	24
52	Dalton Lumber Corp	Altavista	8	8	8	8	8
51	Dixon Lumber Co	Galax	17	17	17	17	17
47	Dominion Forest Prod	Martinsville	5	5	5	5	5
10	Earl Withers Inc	Callao	5	5	5	5	5
24	Essex Industries Inc	Millers Tavern	16	16	16	16	16
43	Evans Lumber Co	Waverly	59	59	59	59	59
49	Ferguson Land & Lumber Co	Rocky Mount	13	13	13	13	13
21	Flippo Lumber Corp	Doswell	53	53	53	53	53
42	Georgia-Pacific Corp	Wakefield	78	85	83	83	83
59	Gibson Lumber Co Inc	Gretna	17	28	28	28	28
61	J. D. Martin Lumber Co	Spout Spring	6	6	6	6	6
33	J. E. Jones Lumber Co	Montpelier	14	14	14	14	14
34	J. Franklin Jones Lumber Co	Accomac	24	24	24	24	24
12	J. H. Knighton Lumber Co Inc	Ruther Glen	14	14	14	14	14
37	Kempsville Building Materials	Virginia Beach	12	12	12	12	12
35	Kirk Lumber Co	Suffolk	5	5	5	5	5
22	Liesfeld Lumber Co Inc	Glen Allen	42	42	42	42	42
46	Morgan Lumber Co	Red Oak	34	35	47	34	34
53	M. Kendall Lumber Co	Blairs	21	21	21	21	21
15	Northern Neck Lumber Co Inc	Warsaw	7	7	7	7	7
40	Nottoway Lumber Co	Blackstone	66	66	66	66	66
26	N. B. Goodwyn & Sons Inc	Moseley	24	24	24	24	24
48	Pine Prod Inc	Martinsville	47	47	47	47	47
27	Pitts Lumber Co	Saluda	4	4	4	4	4
11	Potomac Supply Corp	Kinsale	37	37	37	37	37
28	Rappahannock Lumber Co	Saluda	7	7	7	7	7
60	Robertson Lumber Inc	Hurt	4	4	4	4	4
16	R. A. Yancey Lumber Corp	Crozet	40	40	40	40	40
57	Saunders Lumber Co Inc	Chatham	5	5	5	5	5
39	Taylor-Ramsey Corp	Blackstone	59	59	59	59	59
58	The Burruss Co	Gladys	18	18	18	18	18
14	Tidewater Lumber Corp	Tappahannock	35	35	35	35	35
20	Tradewinds of Virginia Ltd	Bumpass	44	47	59	59	59
56	Tucker Sawmill Co Inc	Brookneal	6	6	6	6	6
45	Tucker Timber Prod Inc	Keysville	6	6	6	6	6
41	Union Camp Corp	Franklin	250	262	281	281	281
25	Walton Lumber Co	Mineral	26	19	19	26	26
31	West Point Logging Corp	West Point	9	9	9	9	9
29	William H. Millby Lumber Co	Saluda	8	8	8	8	8
55	Williams Lumber Supply Co	Brookneal	6	6	6	6	6

	Softwood lumber (1,000 m³)	1995	1996	1997	1998	1999
	Number of sawmills	52	52	52	53	53
	Estimated capacity	1374	1419	1483	1536	1536
(a)	Reported output (U.S. Census)	1364	1338	1416		
	Implied capacity utilization	0.99	0.94	0.95		
	Softwood plywood					
(b)	Estimated capacity	281	281	281	281	281
	Reported output (A.P.A.-Eng.Wd.Assoc.)					
	OSB					
	Estimated capacity	641	1039	928	928	928
(c)	Reported output (A.P.A.-Eng.Wd.Assoc.)	541	802	894		
(d)	Particleboard/MDF (Composite Panel Assoc)	793	830	623	623	
(e)	Softwd. pulpwood receipts(A.Pulpwd.A.)	4010	4096	4219		
(f)	Approximate drain *(a+b+c+d+e)*	6988	7347	7432		

	Softwood timber (1,000 m³)	(1992 data)	1995	1996	1997	1998	1999
(g)	Growing stock	189823					
(h)	Net growth + mortality	8526					
	Drain estimate (all sources)	6645					
(h/g)	Growth to growing stock	0.045					
(f/g)	Drain to growing stock		0.037	0.039	0.039		
(f/h)	Drain to growth		0.82	0.86	0.87		
(h-f)/g	Relative surplus		0.008	0.006	0.006		
	Typical wood costs						
	Pine sawtimber ($/m³)						
	Standing		40	47	42	54	
	Delivered		57	59	69	84	

Washington

Softwood Roundwood Inventory and Softwood Sawmill Capacity



Plant Capacity (Thous. Cub. Met.)

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Washington

Mill I.D.	Name	Location	Capacity / Production (1,000 m³) 1995	1996	1997	1998	1999
13	Allen Logging Co	Forks	76	76	76	76	76
3	Barbee Mill Co	Renton	71	71	71	71	71
51	Bennett Lumber Products	Clarkston	106	106	106	106	106
48	Boise Cascade	Kettle Falls	177	177	182	182	182
43	Boise Cascade	Yakima	215	215	215	215	215
5	Buse Timber Sales	Everett	151	153	153	177	177
36	Caffal Bros	Longview	50	50	50	50	50
4	Canyon Lumber Co	Springdale	45	45	47	47	47
33	Columbia Vista	Camas	101	101	94	94	94
41	Colville Indian Precision Pine	Omak	144	144	156	156	156
26	Crane Cr. Cedar	Amanda Pk.	26	26	26	26	26
9	Crown Pacific	Marysville	78	78	76	99	99
17	Crown Pacific	Port Angeles				229	229
27	Dahlstrom	Hoquiam	24	24	24	24	24
1	Delson Lumber sales	Skookum	71	71	71	71	71
10	Encore Grp.	Sedro Woolley	123	123	123	123	123
6	Enterprise Lumber	Arlington	85	85	85	85	85
8	Great Western	Everson	52	52	59	59	59
39	Hambleton Bros	Washougal	42	42	42	42	42
52	Hampton	Packwood	212	236	236	236	236
44	Layman Lumber Co	Naches	80	80	80	80	80
40	Longview Fibre	Leavenworth	85	85	85	85	85
21	Louisiana-Pacific	Tacoma	118	118	118	118	118
23	Manke Lumber	Tacoma	236	319	319	319	319
29	Mary's River	Montesano	104	104	104	104	104
28	Mayr Bros	Hoquiam	71	71	71	71	71

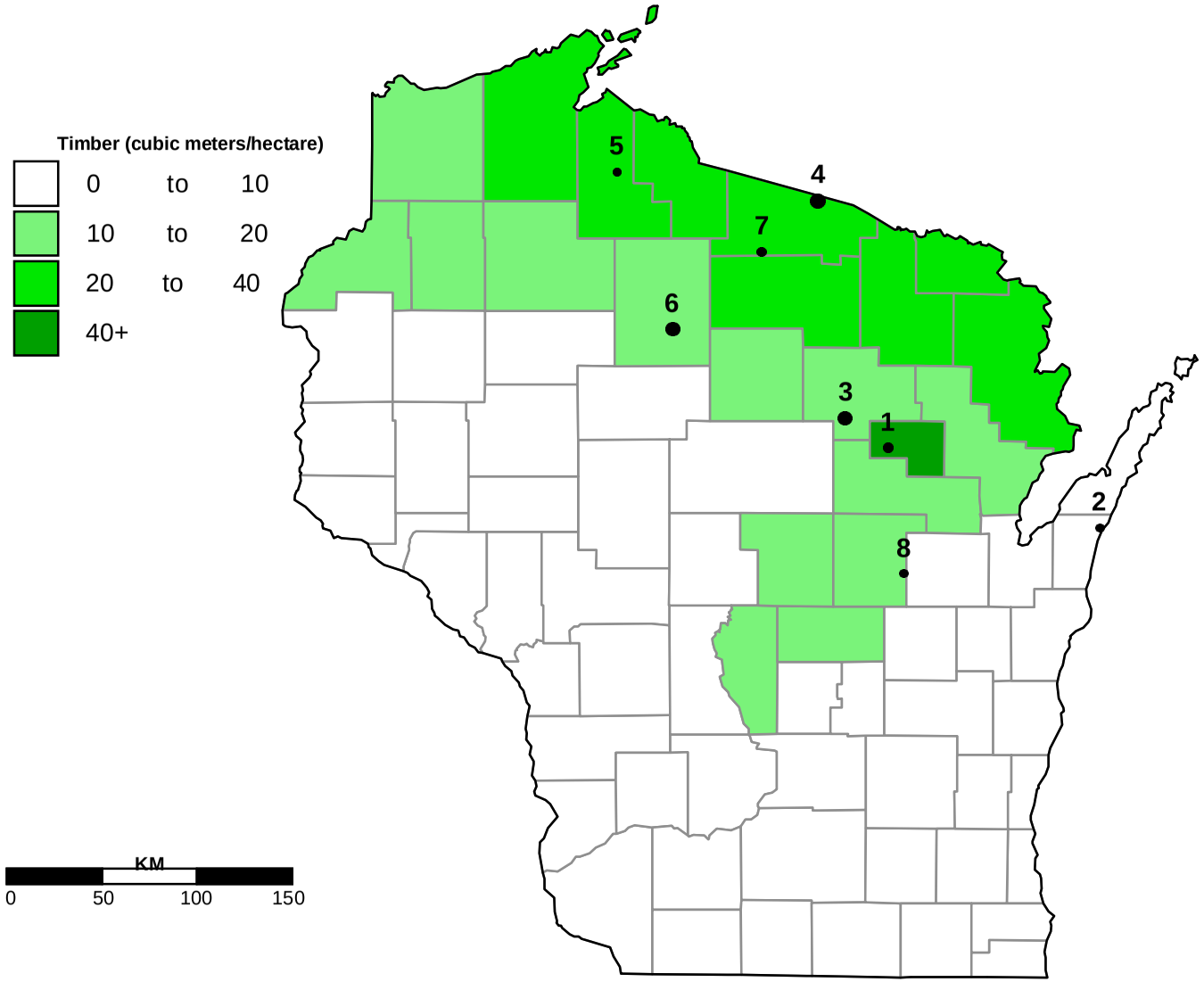
Mill I.D.	Name	Location	Capacity / Production (1,000 m³) 1995	1996	1997	1998	1999
18	Pac. Lum. & Shipp	Randle	236	236	236	236	236
16	Pac. Lum. & Shipp	Morton	354	590	590	472	472
22	Portac Inc	Tacoma	227	227	224	224	224
12	Portac Inc	Beaver	236	236	236	236	236
35	RSG Forest prod	Kalama	208	208	208	208	208
32	SDS Lumber	Bingen	94	94	94	94	94
11	Seattle-Snohomish	Snohomish	170	170	212	212	212
19	Simpson Timber	Tacoma	219	219	219	219	219
31	Simpson Timber	Shelton	604	708	708	708	708
49	SSF Bldg. Mat.	Northport	35	35	35	35	35
46	Stimson Lumber	Colville	196	196	196	196	196
7	Summit Timber Co	Darrington	212	236	236	236	236
14	TreeSource	Morton	99	99	99	99	99
20	TreeSource	Tacoma	130	146	142	142	142
24	TreeSource	Tumwater	130	130	142	142	142
15	Tubafor Mill	Morton	104	104	104	104	104
50	Vaagen Bros	Republic	189	189	189	189	189
47	Vaagen Bros	Colville	236	236	212	212	212
30	Weyerhaeuser	Raymond	283	319	319	319	319
38	Weyerhaeuser	Toutle	326	326	326	326	326
25	Weyerhaeuser	Aberdeen	354	491	472	472	472
2	Weyerhaeuser	Enumclaw	437	437	472	472	472
37	Weyerhaeuser	Longview	590	519	519	519	519
34	Wilkins, Kaiser, Olsen	Carson	118	118	177	177	177
45	Yakama For Products	White Swan	142	142	142	142	142
42	Zosel Lumber Co	Oroville	38	38	35	35	35

	Softwood lumber (1,000 m³)	1995	1996	1997	1998	1999
	Number of sawmills	51	51	51	52	52
	Estimated capacity	8508	9098	9211	9369	9369
(a)	Reported output (U.S. Census)	8605	8808	9221		
	Implied capacity utilization	1.01	0.97	1.00		
	Softwood plywood					
	Estimated capacity	1254	1104	1027	996	1084
(b)	Reported output (A.P.A.-Eng.Wd.Assoc.)	1009	925	873		
	OSB					
	Estimated capacity					
(c)	Reported output (A.P.A.-Eng.Wd.Assoc.)	6674	6240	4437		
(d)	Particleboard/MDF (Composite Panel Assoc)	1085	1180	1440		
(e)	Softwd. pulpwood receipts(A.Pulpwd.A.)	13031	9995	10816		
(f)	Approximate drain *(a+b+c+d+e)*	30404	27147	26787		

	Softwood timber (1,000 m³)	(1992 data)	1995	1996	1997	1998	1999
(g)	Growing stock (excl. federal)	902806					
(h)	Net growth + mortality (ex fed)	36541					
	Drain estimate (all sources)	32813					
(h/g)	Growth to growing stock	0.040					
(f/g)	Drain to growing stock		0.034	0.030	0.030		
(f/h)	Drain to growth		0.83	0.74	0.73		
(h-f)/g	Relative surplus		0.007	0.010	0.011		
	Typical wood costs						
	Sawtimber, standing ($/m³)						
	State owned		86	94	93	76	
	Sawtimber, delivered ($/m³)						
	Delivered, #2 sawmill, douglas & hem-fir		108	102	103	85	
	Ponderosa pine, camprun		96	95	97	95	

Wisconsin

Softwood Roundwood Inventory and Softwood Sawmill Capacity



Plant Capacity (Thous. Cub. Met.)

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Wisconsin

Mill I.D.	Name	Location	Capacity / Production (1,000 m³) 1995	1996	1997	1998	1999
2	Algoma Lumber Co	Algoma	19	19	19	19	19
6	Biewer Wisconsin Sawmill Inc	Prentice	83	83	106	106	106
1	Menominee Tribal Enterprises	Neopit	33	33	33	33	33
3	Nagel Lumber Co Inc	Antigo	94	94	94	94	94
4	Nagel Lumber Co Inc	Land O'Lakes	94	118	118	118	118
5	North Country Lumber Co Inc	Mellen	17	17	17	17	17
8	Ort Lumber Inc	New London	19	19	19	19	19
7	Pukall Lumber Co	Woodruff	26	26	26	26	26

	Softwood lumber (1,000 m³)	1995	1996	1997	1998	1999
	Number of sawmills	8	8	8	8	8
	Estimated capacity	385	408	432	432	432
(a)	Reported output (U.S. Census)	231	208	253		
	Implied capacity utilization	0.60	0.51	0.58		
	Softwood plywood					
	Estimated capacity					
(b)	Reported output (A.P.A.-Eng.Wd.Assoc.)					
	OSB					
	Estimated capacity	558	575	575	566	566
(c)	Reported output (A.P.A.-Eng.Wd.Assoc.)	572	554	513		
(d)	Particleboard/MDF (Composite Panel Assoc)	200	218	217	205	
(e)	Softwd. pulpwood receipts(A.Pulpwd.A.)	2266	2366	2558		
(f)	Approximate drain *(a+e)*	2498	2574	2810		

	Softwood timber (1,000 m³)	(1996 data)	1995	1996	1997	1998	1999
(g)	Growing stock	126110					
(h)	Net growth + mortality	4918					
	Drain estimate (all sources)	2125					
(h/g)	Growth to growing stock	0.039					
(f/g)	Drain to growing stock		0.020	0.020	0.022		
(f/h)	Drain to growth		0.51	0.52	0.57		
(h-f)/g	Relative surplus		0.019	0.019	0.017		
	TYPICAL WOOD COSTS						
	Pine (Jack, Red & White) sawtimber ($/m³)						
	Standing		26	26	28	30	
	Delivered		45	45	48	50	

Appendix B—Mill Description Form

Company Name _____

Sawmill Mailing Address _____

_____

State/Province_____

City_____Zip_____

Phone Number (_____) _____ - _____

Annual Mill Capacity (1999) _____ 1,000 bd. ft. or _____ 1,000 m³

Capacity Based on Number of Shifts _____

Percentage Softwood and Hardwood Production
Softwood _____%
Hardwood_____%

Total Number of Employees _____

Would the Mill be Characterized Primarily as:
___Board/Industrial
___Dimension
___Stud

At this site is there a:
-Planer Mill ___Yes ___No
-Dry Kiln(s) ___Yes ___No

Dry Kiln Capacity
____1,000 bd. ft./week (or month/year)
____1,000 m³/week (or month/year)

Mail or fax to Henry Spelter, USDA Forest Service, Forest Products Laboratory, One Gifford Pinchot Drive, Madison, WI 53705-2398
Fax: 608-231-9592