Major Primary Timber Processing Facilities in British Columbia

2011

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Competitiveness and Innovation Branch
Ministry of Forests, Lands and Natural Resource Operations
Victoria, B.C.

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Foreword

This edition of the *Major Primary Timber Processing Facilities in British Columbia* summarizes timber processing mills that operated during 2011. It covers sawmills, veneer mills and panel plants, pulp and paper mills, chip mills, pellet mills and pole and post mills. Some do not have primary log processing capabilities. For mills that produced more than one product (e.g. lumber and veneer), each operation is listed in the respective sections of the report. Coverage does not include re-manufacturing plants.

Most of the information was gathered through the 2011 and earlier surveys of individual processing mills. The 2010[1] and 2011 surveys included small lumber mills with less than 40 million board feet capacity. Shake and shingle mills were not surveyed, so this report provides estimates. If a mill did not submit a response, mill specific information reported in trade publications, directories and corporate annual reports may have been used. In some cases Ministry of Forests, Lands and Natural Resource Operations staff provided estimates based on their knowledge of the operation and information reported in previous years.

The Coast, Northern Interior and Southern Interior regions/areas referred to in this report are the former administrative areas called Forest Regions, which were in effect at the time the survey was initiated. These were replaced in 2011 with three administrative "Areas" that have a few different boundaries. The information in this report is generally applicable to the new Areas. Similarly, historical forest districts were used in the Appendix.

This report is available free of charge on the Ministry of Forests, Lands and Natural Resource Operations Internet site at:

http://www.for.gov.bc.ca/het/fibre.htm

Comments, errors or omissions may be sent to the contact information at the website or by mail at the following location:

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[1] A separate 2010 report will not be published. Surveying was delayed in switching to an electronic survey system.

Acknowledgements

The cooperation of mill personnel who responded to the Ministry of Forests, Lands and Natural Resource Operations survey is gratefully acknowledged.

The important role played by Ministry of Forests, Lands and Natural Resource Operations regional and district staff in securing mill responses is also gratefully acknowledged.

The survey and analyses were led by Jim Johnston and conducted by Jim Johnston, Alex Barnes, Judith Elkins and Alex Love. Final compilation was done by Tim Bogle.

Table of Contents

Introduction 5
Wood Fibre Supply and Log Use in British Columbia, 2011 5
Productivity 10
Log Input Capacity 11
Time Series Data 12
1) Small, Medium, Large and Very Large Lumber Mills 12
2) Veneer Mills 18
3) Pulp and Paper Mills 22
4) Pellet Mills 26
Related References 29
Appendix: List of Mills 30
Forest regions and districts 30
Lumber Mills 31
Pulp and Paper Mills 36
Veneer, Plywood, OSB and Other Panel Mills 38
Chip Mills 40
Pellet Mills 42
Pole and Post Mills 44

Abbreviations for Products

CHP	- Chip	PLE	- Pole
LBR	- Lumber	PLT	- Pellet
LVL	- Laminated Veneer Lumber	PLY	- Plywood
OSB	- Oriented Strand Board	PNL	- Other Panel
PLP	- Pulp	PST	- Fence Post
PPR	- Paper	UTI	- Utility Pole
		VNR	- Veneer

Introduction

This report presents summary statistics derived from the 2011 and earlier mill surveys and selected analyses of these statistics. Fibre supply and log use in the province are examined through a series of tables and pie charts. These are followed by time series statistics for lumber, veneer mills, pulp and paper, and pellet mills.

Each year, a list of operating mills in each mill category was compiled, based on the previous list and various sources of information on mill openings and closures. Electronic and mail surveys were sent to mill operators, followed by up to two reminders by the same method and finally phone calls where necessary. Based on responses, mills are classified as a) open with response, b) presumed open without response, c) did not operate at all during the year (temporary or indefinite closure) or d) closed (permanently). Statistics in this report are derived from mills in category a and b.

The survey was not sent to shake and shingle mills so estimates for these mills were used in the analysis of wood fibre supply and use. Details on how these estimates were obtained are provided in footnotes to the figures.

Wood Fibre Supply and Log Use in British Columbia, 2011

Figure 1 shows the estimated primary log use was approximately 61.4 million cubic metres in 2011, up from 48.2 million cubic metres reported in 2009 and 13 million cubic metres below the 2007 level of 74.6 million cubic metres. Log supply exceeded log use by about 8 million cubic metres. There are several possible factors contributing to this difference. One possibility is that some facilities were not sampled or that log inputs were not accurate. Another factor is the increased use of cruise-based billing, which requires no waste estimate in the woods or scale reporting at the processing facility. Trees in the cruise estimate may not be transported out of the woods. However, even directly comparing cruise estimates and scale estimates can be problematic, as things such as expected decay, which reduces a cruise estimate, may not result in lower scale volume in actuality. In 2011, cruise-based billing was used for 47% of the harvest volume in the Interior and 7% on the Coast. Another potential contributor to the difference is mill log inventories. With reduced demand for lumber in 2009, many mills were running minimal log inventories. As demand increased, mills began to rebuild log inventories to normal levels, scaling more volume than needed in the mill.

Lumber mills accounted for an estimated 72.4% of the total primary log use in 2011. While log use increased and some mills curtailed in 2009 restarted normal operations, the number of lumber mills operating in 2011 was 132, below the 153 mills operating in 2008. Provincial log exports rose from 5% in 2009 to 8.9% of primary log use in 2011. Coastal log exports almost doubled from 15.6% in 2009 to 27.4% in 2011. Veneer and OSB mills accounted for 8.6% of primary log use while chip mills and pulp mill wood rooms[2] accounted for 8.1% of primary log use.

[2] When pulp mills are unable to obtain adequate chip supply, operators may choose to purchase whole logs and chip them at the mill site.

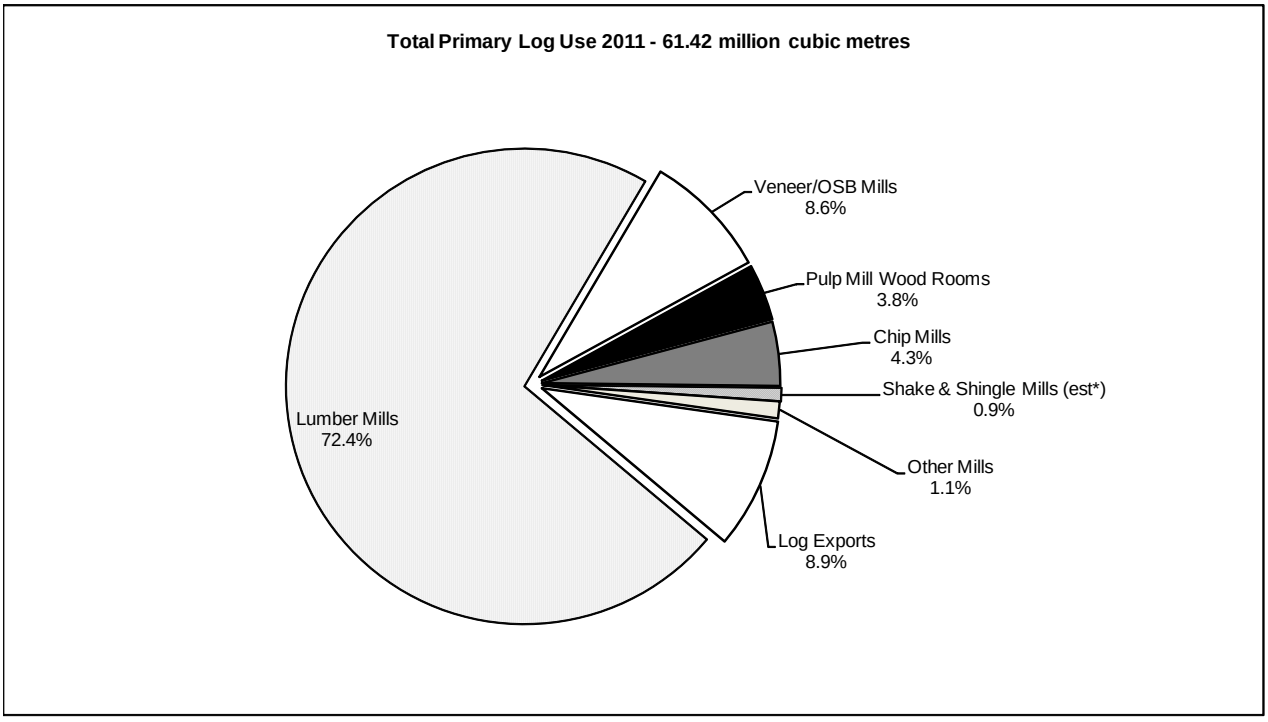
Figure 1: Estimated British Columbia Primary Log Use - 2011

	Coast			Interior			Province		
	Number of Mills	Est. Volume Used (000 m³)	Per Cent	Number of Mills	Est. Volume Used (000 m³)	Per Cent	Number of Mills	Est. Volume Used (000 m³)	Per Cent
Primary Log Use									
Lumber Mills	49	6,712	40.5%	83	37,732	84.1%	132	44,444	72.4%
Veneer/OSB Mills	4	1,661	10.0%	12	3,593	8.0%	16	5,254	8.6%
Pulp Mill Wood Rooms	3	1,149	6.9%	3	1,194	2.7%	6	2,343	3.8%
Chip Mills	6	1,873	11.3%	4	793	1.8%	10	2,666	4.3%
Shake & Shingle Mills (est*)	23	553	3.3%	3	6	0.0%	26	559	0.9%
Other Mills	11	78	0.5%	46	625	1.4%	57	703	1.1%
Log Exports		4,529	27.4%		921	2.1%		5,450	8.9%
TOTAL	96	16,555	100%	151	44,864	100%	247	**61,419**	100%
Log Availability									
Total Harvest**		19,395			50,160			69,556	
Log Imports								95	
TOTAL								**69,651**	
Difference		2,840	14.6%***		5,296	10.6%***		8,232	***11.8%****

* Estimate: 2008 values for shake and shingle mills are adjusted using known closures as of 2011

**Total harvest excludes waste and reject for scaled-based sales

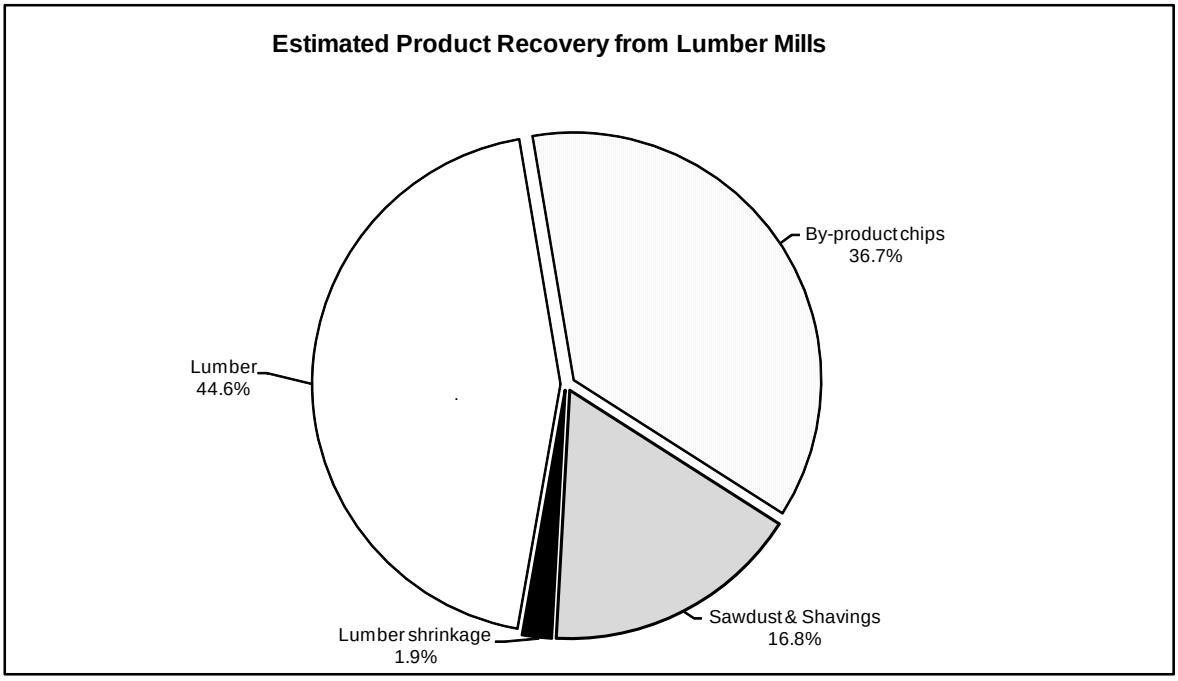
***In 2011, cruise-based sales represented about 47% of volume-billed in the Interior and 7% on the Coast. There is no waste assessment on cruise-based sales which explains much of the difference between apparent log availability and log use in the Interior where harvest was concentrated in stands containing damaged pine logs.



Sources:
Survey data; Statistics Canada trade data for total provincial exports and imports; BC Ministry of Forests, Lands and Natural Resource Operations log export statistics for the proportion of exports from the Coast versus Interior.
Note: Statistics above do not include mills that were closed or did not operate in 2011.

Figure 2: Estimates of Product Recovery from Lumber Mills - 2011

	Units	Coast	Interior	Province
Number of Mills		49	83	132
Log Input	(million m^3)	6.71	37.73	44.44
Lumber Output				
Lumber Output (nominal measure)	(mmfbm)	1.40	10.50	11.90
Lumber Recovery Factor	(mfbm/m^3)	0.209	0.278	0.268
Conversion Factor *	(m^3/mfbm)	2.07	1.61	1.66
= Actual Volume of Lumber Produced	(million m^3)	2.90	16.91	19.80
As Per Cent of Log Input	(%)	43.2%	44.8%	44.6%
Lumber Shrinkage				
Shrinkage (5% of lumber production)	('000 m^3)	-	0.85	0.85
As Per Cent of Log Input	(%)	0%	2%	2%
By Product Chip Output (from Lumber Mills)				
By Product Chip Output	(million bdu)	0.80	5.10	5.90
By Product Chip Recovery Factor	(bdu/'000 m^3)	119	135	133
Conversion Factor*	(m^3/bdu)	2.86	2.75	2.76
= Volume of Chips Produced	(million m^3)	2.29	14.03	16.31
As Per Cent of Log Input	(%)	34.1%	37.2%	36.7%
Sawdust and Shavings - Estimated Volume	(million m^3)	1.53	5.96	7.48
As Per Cent of Log Input	(%)	22.7%	15.8%	16.8%



Notes:

* Conversion factors are used to convert lumber output or by-product chips in nominal measure to solid wood equivalent.

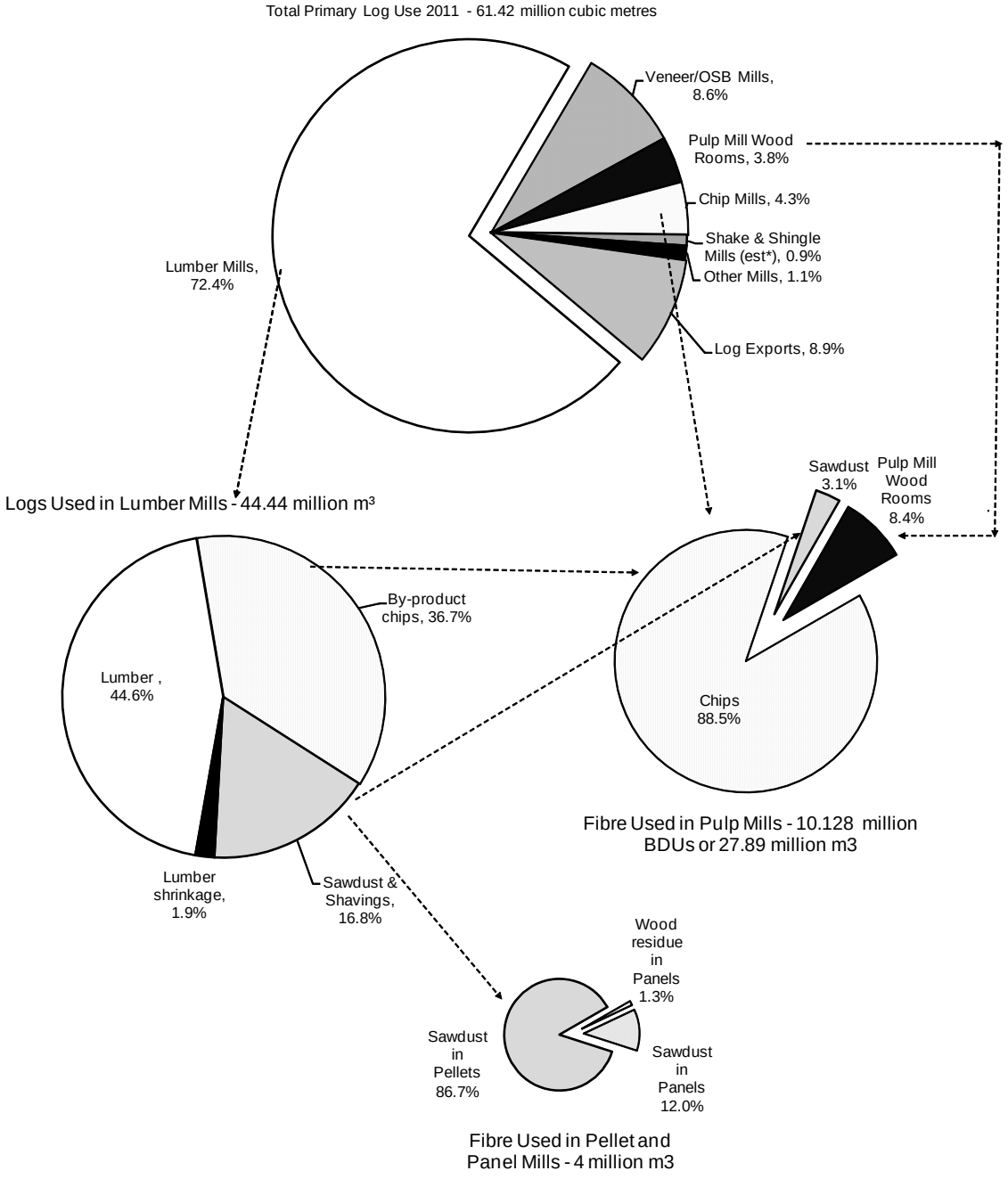
mmfbm = million board feet; mfbm = thousand board feet; m^3 = cubic metres; bdu = bone dry unit = 2400 pounds.

Conversion factors used in the analysis are based on Forintek Canada Corp., "Conversion Factors for the Forest Products Industry in Western Canada", Special Publication No. SP-24R, 1985 and "Major Primary Timber Processing Facilities in British Columbia 2007", Appendix 1, page 24.

Figure 2 estimates product recovery from lumber mills. It shows that 44.6% of the volume of wood entering lumber mills was converted to lumber, 1.9% was lost through lumber shrinkage, and the remaining 53.5% was converted to chips, sawdust and shavings.

Figure 3 combines information from Figures 1 and 2 with a chart showing the sources of fibre used by pulp mills, pellet and panel mills. In 2011, pulp mills are estimated to have used 27.89 million cubic metres in solid wood equivalents. Over 91% of the fibre used by pulp mills in 2011 was in the form of chips and sawdust obtained from other mills, while 8.4% was from logs chipped in the pulp mill. Fibre use in pellet and panel mills in 2011 was 4.0 million cubic metres in solid wood equivalents, an increase of 100% from the 2009 level, primarily due to increased pellet production in the Interior. This accounts for 65 per cent of the reported sawdust and shavings from lumber mills. The remainder is generally burned at lumber mills to fuel kiln-driers and other mill energy requirements.

Figure 3: Estimated British Columbia Log and Fibre Use - 2011

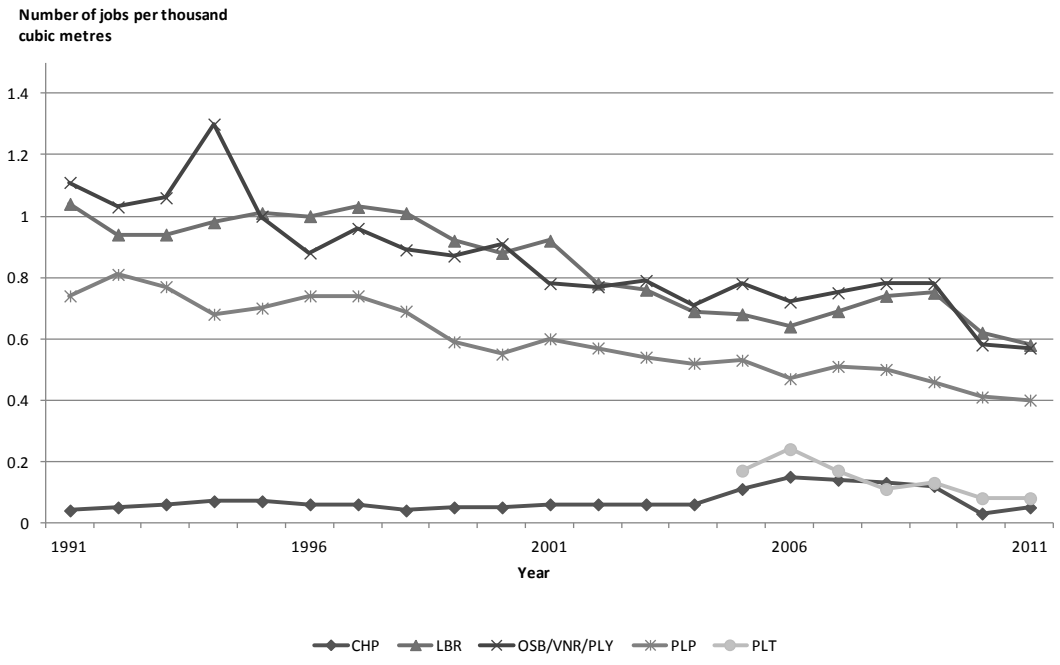


Productivity

Productivity measures are important economic indicators of the efficiency of operations. Labour productivity appears to have increased substantially over the past decade. As shown in Figure 4 below, the result is that employment per thousand cubic metres of product in solid wood equivalents (i.e., cubic metres of solid product) has decreased. This increased efficiency was reversed slightly for lumber mills from 2007 to 2009, as lumber mills were dealing with logs damaged by the mountain pine beetle. Mills may also have retained workforces despite lower output levels during the economic downturn, in preparation for a return to normal operations. The chip and pellet mills require the fewest jobs to create product.

This chart captures only direct reported mill employment and does not represent any of the indirect employment required to sustain mill operations. Some of the functions carried out in vertically integrated companies during the early 1990s have been contracted out and no longer reside within the company of the mill operator. This may explain some of the apparent loss of employment and increase in labour productivity.

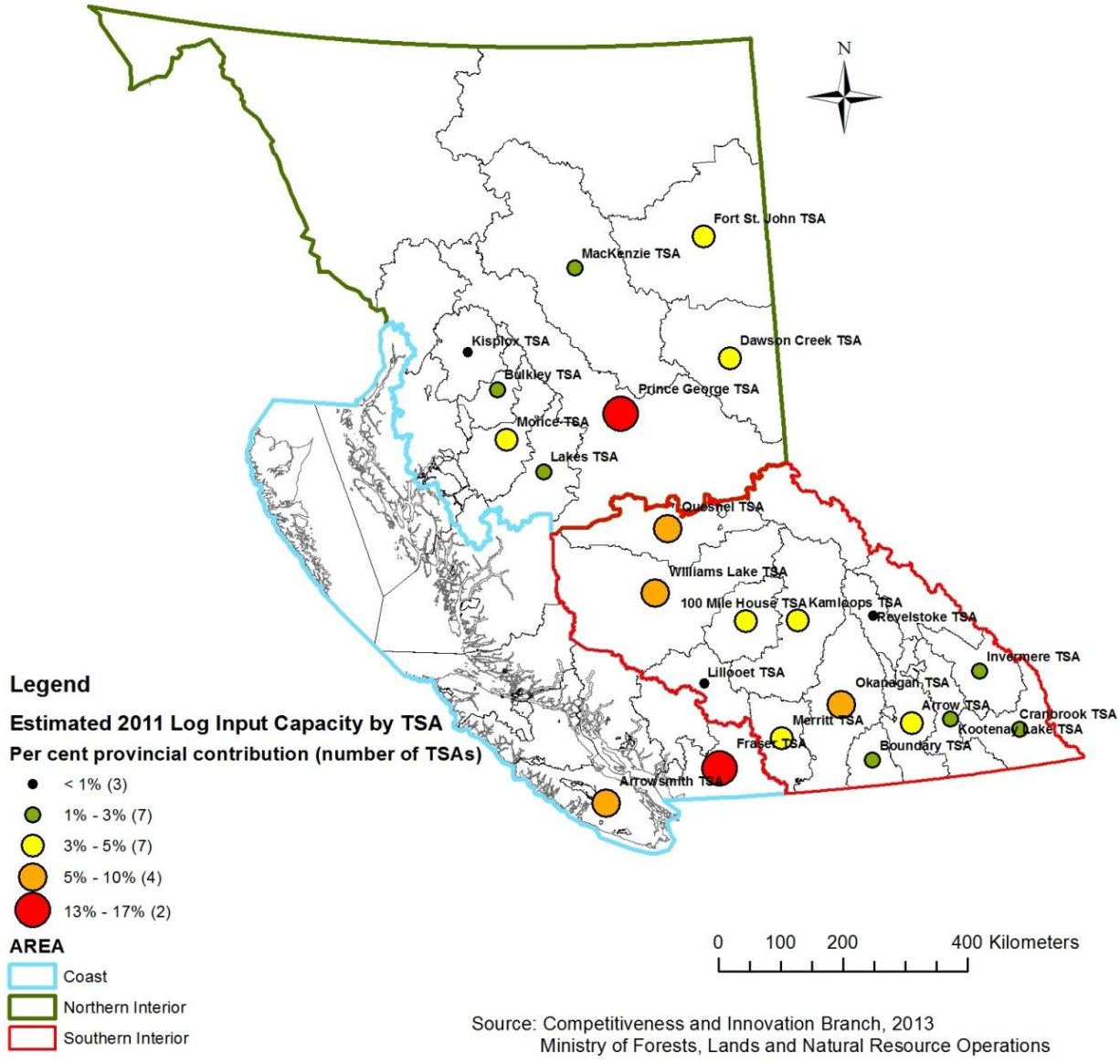
Figure 4: Employment per 000 m3 of production - 2011



Log Input Capacity

Mill capacity is generally greater than both fibre supply and log use. Figure 5 shows provincial mill capacity, based on log input for LBR/VNR/OSB/LVL mills, summarized by TSA, for mills producing at least 40 million board feet per year. The provincial operating mill log input capacity in 2011 for these mills was 57.6 million cubic metres, representing 95% of the provincial LBR/VNR/OSB/LVL mill capacity, up from just under 54 million cubic metres in 2009. Log input for these mills was 48.4 million cubic metres in 2011.

Figure 5: Provincial Log Input Capacity by Timber Supply Area in 2011[3]



[3] Contribution by TSA for mills producing at least 40 million board feet per year. TSAs without mills of this size are not labeled but are outlined.

Time Series Data

1) Small, Medium, Large and Very Large Lumber Mills

There were 132 lumber mills operating in B.C. in 2011. Figure 6 shows the distribution of lumber mills by mill size, for the Coast, Northern Interior and Southern Interior. For reporting purposes, mills are categorized into four 100 million board feet classes, producing 4 size classes, namely small, medium, large and very large. Both the Coast and Southern Interior had over 30 small mills, while the Northern Interior had only five small mills. The Northern and Southern Interior both had three very large mills. Most of the output in the Northern Interior was processed by large mills in the 200-300 million board feet per year class, while it was the medium class that produced most of the lumber for the other two regions.

Figure 6: Regional Distribution Of British Columbia Lumber Mills By Size - 2011

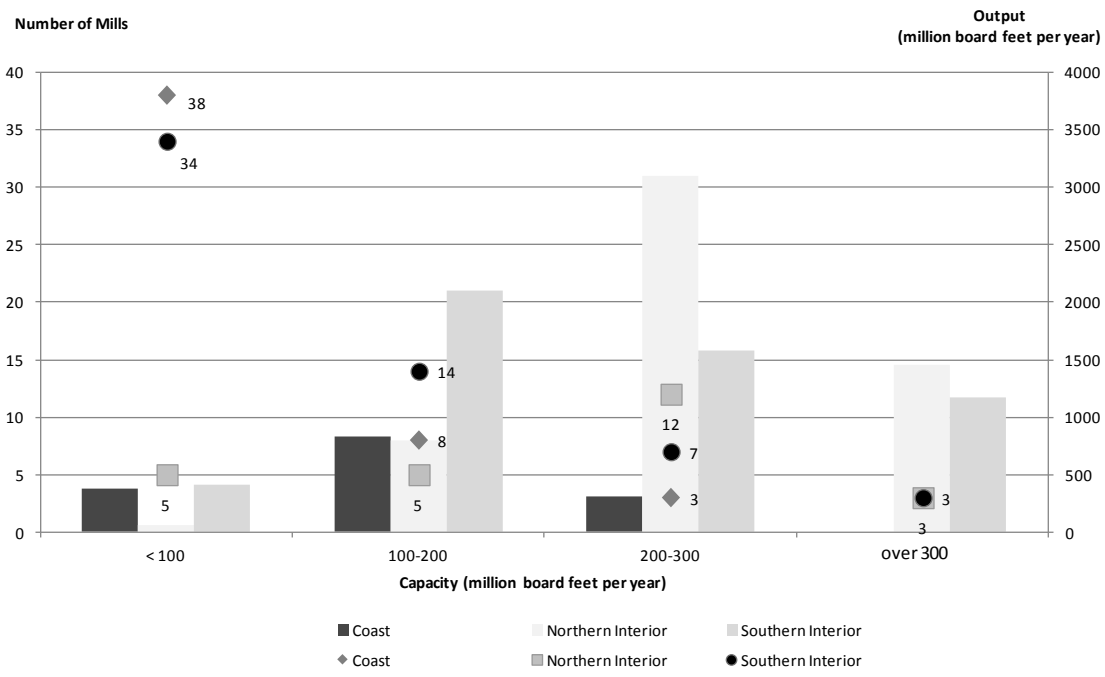


Table 1 shows detailed statistics for the larger of the small mills (at least 40 million board feet per year) as well as the medium, large and very large sawmills in B.C. from 1990 to 2011.[4] In 2011, there were 21 mills on the Coast and 56 in the Interior for a total of 77 mills. Figures 7a and 7b show the total log input, total lumber output and capacity for mills in the Coast and Interior respectively. Coastal capacity remained stable over 2010 and 2011 while in the Interior the capacity increased by 0.7 billion board feet between 2010 and 2011.

As seen in Table 1, as well as Figure 8, the number of operating lumber mills increased slightly since the low in 2009, with a small reduction in average capacity in the Interior. Average capacity was higher in the Interior than on the Coast. The increasing gap between regions observed in 2009 subsided slightly, with average capacity stabilizing on the Coast and declining slightly in the Interior.

Figure 9 shows that capacity utilization rebounded significantly in recent years in the Interior, to 95 per cent, but remained roughly at the 2009 level of 55-56 per cent over 2010 and 2011 in the Coast region.

From Figure 10, the lumber recovery factor (LRF) in the Interior increased slightly over previous years, while on the Coast, the LRF declined to a level not seen since 2001. The Coastal decline was accentuated by the temporary curtailment of mills with lower than average lumber recovery during market challenges in 2009, leading to an increase in aggregate LRF for that year.

[4] The time series data was developed from the historical database recorded in the Ministry of Forests, Lands and Natural Resource Operations annual mill survey and only uses data for those mills with annual capacity of at least 40 million board feet. Small mills less than 40 million board feet have not been consistently surveyed for inclusion in the time series. The 55 mills in this group processed 2.6% of the provincial log volume and are listed in the Appendix.

Table 1: British Columbia Lumber Mill Summary Statistics for mills with estimated annual capacity of at least 40 million board feet

		1990…	1995…	2000...	2005	2006	2007	2008	2009	2010	2011	% change 1990-2011
COAST												
Number of Mills		43	38	36	29	24	24	21	19	21	21	-51%
Total Capacity	billion board feet per year	4.2	3.8	4.0	3.4	2.7	2.7	2.4	2.2	2.5	2.5	-41%
Total Output	billion board feet per year	3.8	3.3	3.1	2.6	2.4	1.7	1.5	1.2	1.4	1.4	-63%
Total Input	million cubic metres per year	17.1	15.0	13.8	11.2	10.3	7.6	6.5	4.9	5.9	6.3	-63%
Average Capacity	million board feet per mill per year	99	100	111	117	114	111	114	116	119	119	21%
Capacity Utilization	output divided by capacity	89%	88%	77%	76%	89%	65%	63%	55%	56%	56%	-37%
Lumber Recovery Factor	'000 board feet per cubic metre	0.220	0.223	0.222	0.231	0.236	0.230	0.231	0.245	0.237	0.222	1%
INTERIOR												
Number of Mills		88	83	77	71	72	72	62	53	52	56	-36%
Total Capacity	billion board feet per year	10.7	10.3	10.7	12.8	12.8	12.4	11.3	10.7	10.4	11.1	4%
Total Output	billion board feet per year	10.0	10.0	10.5	14.1	14.2	13.3	9.7	7.9	9.5	10.5	5%
Total Input	million cubic metres per year	42.2	40.8	39.9	50.2	50.5	47.4	34.7	28.2	34.1	37.0	-12%
Average Capacity	million board feet per mill per year	121	124	139	180	177	172	182	202	200	198	63%
Capacity Utilization	output divided by capacity	93%	97%	99%	111%	111%	107%	86%	74%	91%	95%	1%
Lumber Recovery Factor	'000 board feet per cubic metre	0.236	0.245	0.263	0.282	0.281	0.280	0.280	0.280	0.279	0.284	20%
PROVINCE												
Number of Mills		131	121	113	100	96	96	83	72	73	77	-41%
Total Capacity	billion board feet per year	14.9	14.1	14.7	16.2	15.5	15.1	13.7	12.9	12.9	13.6	-9%
Total Output	billion board feet per year	13.7	13.3	13.6	16.7	16.6	15.0	11.2	9.1	10.9	11.9	-13%
Total Input	million cubic metres per year	59.2	55.7	53.8	61.4	60.8	55.0	41.2	33.1	40.0	43.3	-27%
Average Capacity	million board feet per mill per year	114	117	130	162	162	157	165	179	177	177	55%
Capacity Utilization	output divided by capacity	92%	94%	93%	103%	107%	100%	82%	71%	84%	88%	-5%
Lumber Recovery Factor	'000 board feet per cubic metre	0.232	0.239	0.253	0.272	0.273	0.273	0.272	0.275	0.273	0.275	19%

Source: Major Primary Timber Processing Facilities in British Columbia, ministry database, various years

Notes:

Includes only those lumber mills with a minimum estimated annual capacity of 40 million board feet per year.

Capacity estimated assuming two 8-hour shifts, 240 days per year.

Figure 7a: B.C. Lumber Mills (at least 40 million board feet)
Coast Capacity, Output and Log Input

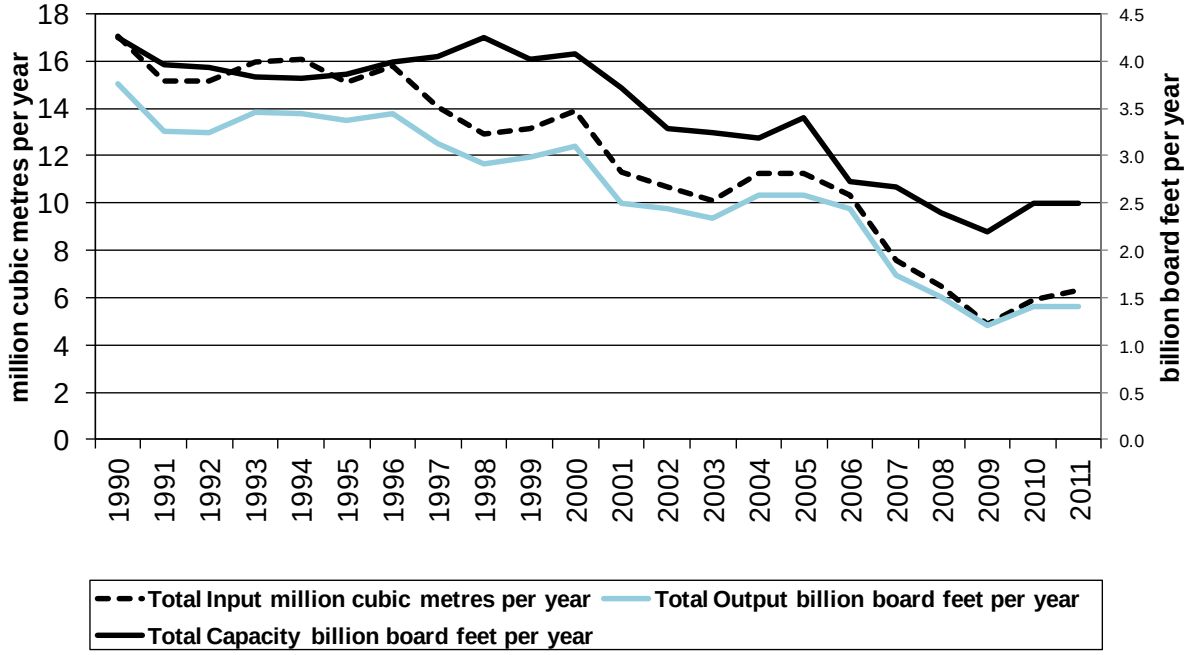


Figure 7b: B.C. Lumber Mills (at least 40 million board feet)
Interior Capacity, Output and Log Input

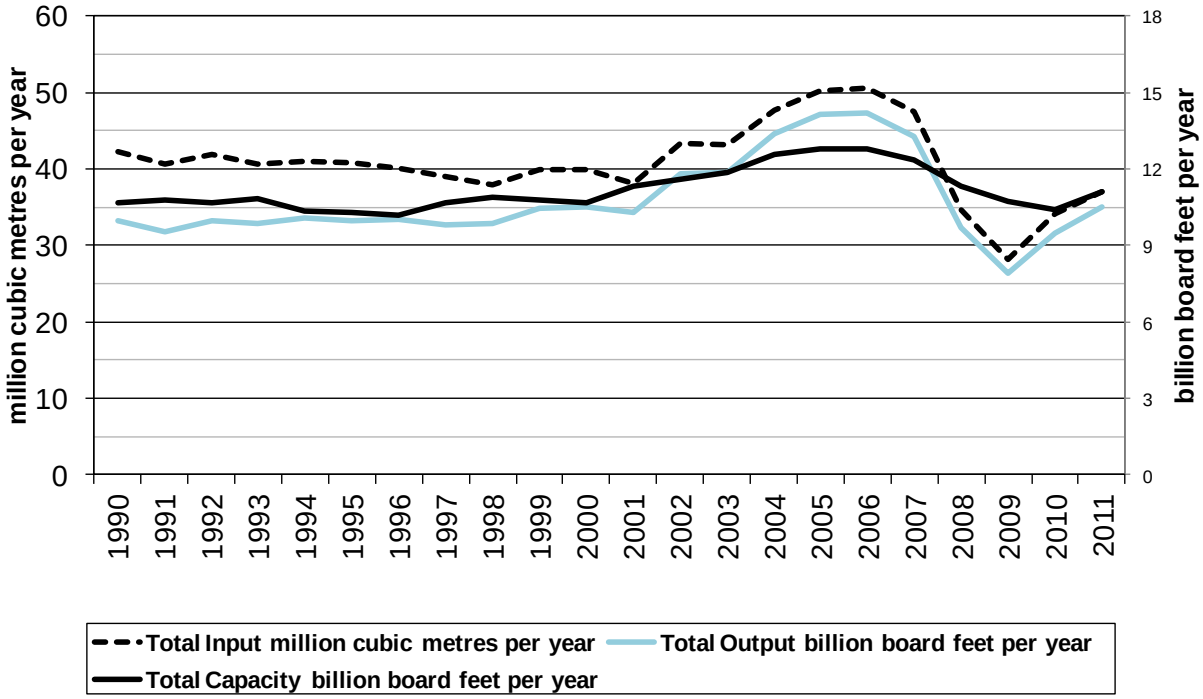


Figure 8: B.C. Lumber Mills (at least 40 million board feet)
Number of Mills and Average Capacity

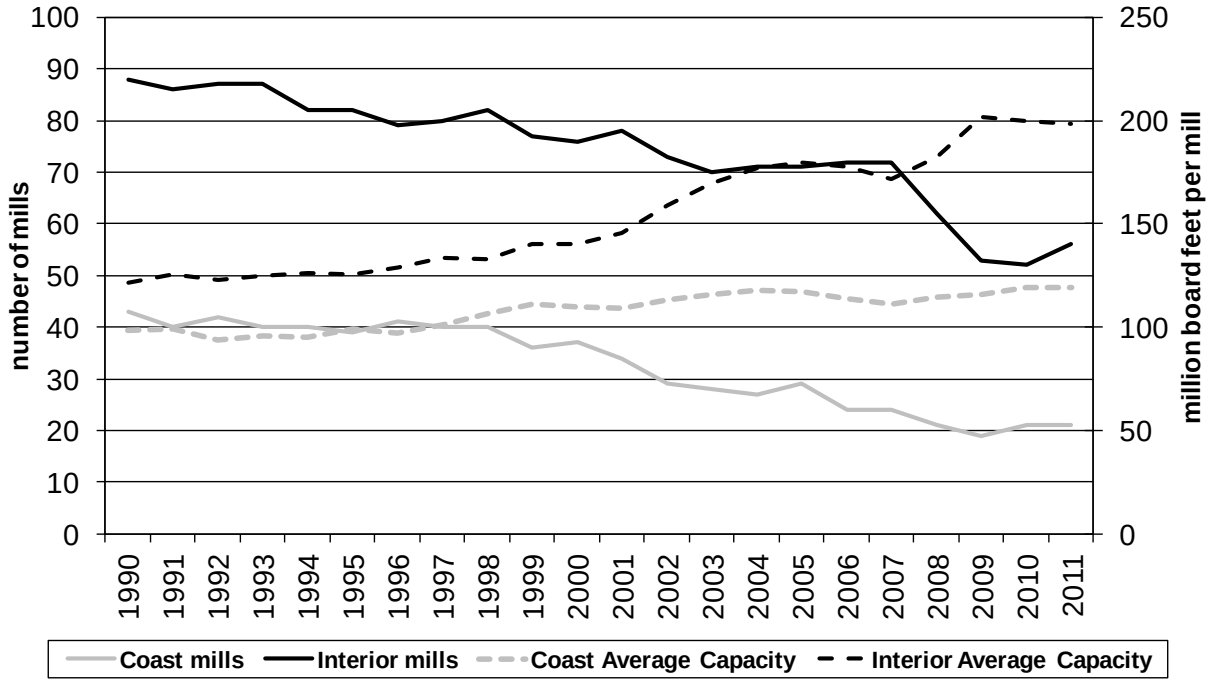


Figure 9: B.C. Lumber Mills (at least 40 million board feet)
Capacity Utilization

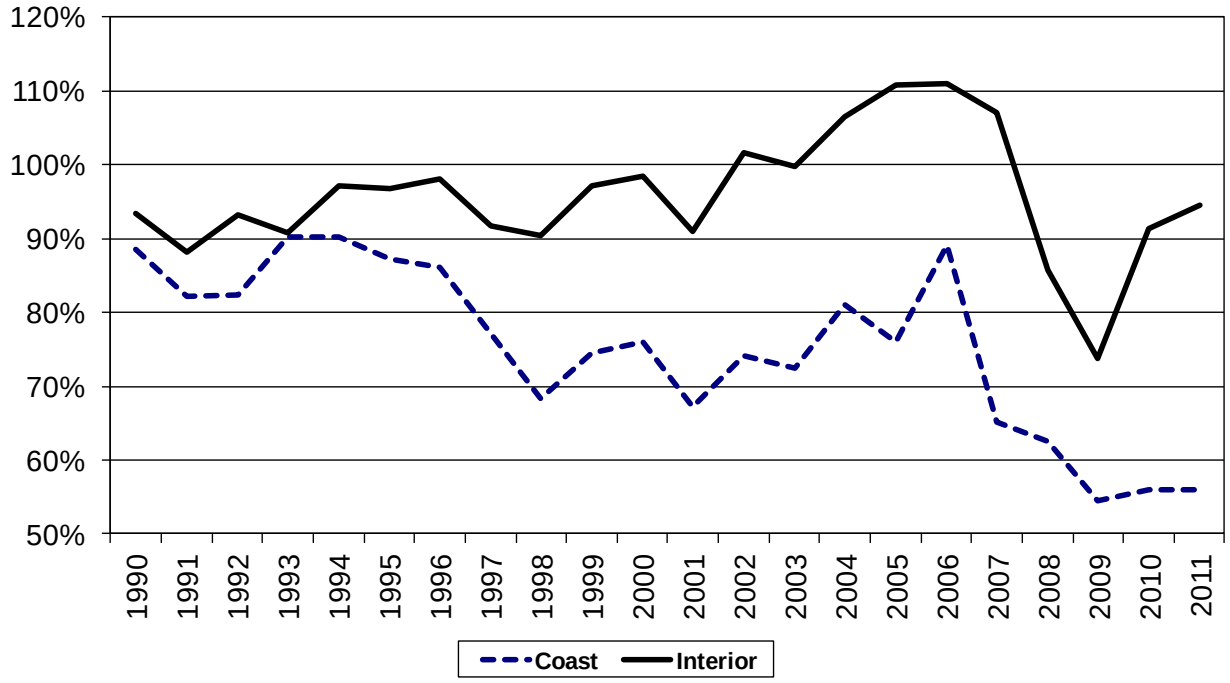
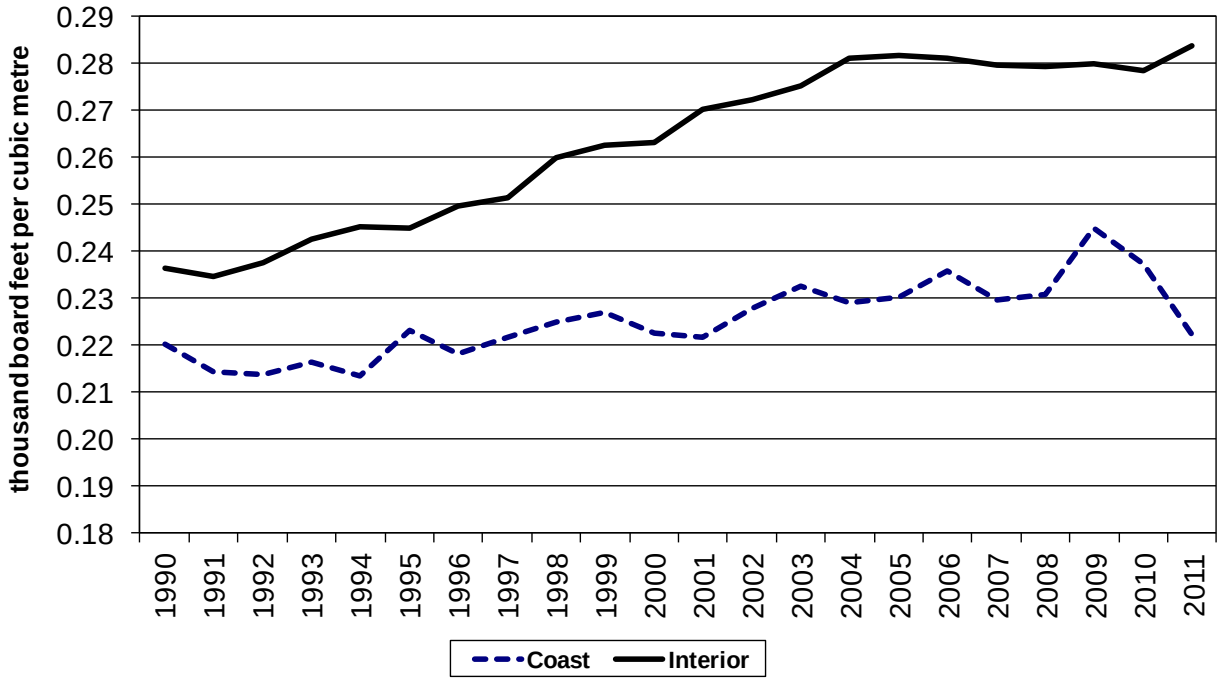


Figure 10: B.C. Lumber Mills (at least 40 million board feet)
Lumber Recovery Factor



2) Veneer Mills

Veneer is used as an input to plywood manufacturing as well as an input to other engineered wood products such as laminated veneer lumber. Eight veneer mills in British Columbia have a plywood mill on the same site, whereas 3 mills produce “market veneer” for sale to plywood and other types of mills.

Table 2 gives a provincial overview of veneer mill statistics for 1990-2011. These statistics show 11 veneer mills operating in British Columbia in 2011, 3 on the Coast and 8 in the Interior. Figure 11 shows that total veneer capacity and output remained stable around 2 billion square feet (3/8” basis) since 2009, despite the net loss of one mill between 2009 and 2011. Average capacity continued to increase in 2011 (Figure 12).

Figure 13 shows that between 2002 and 2006, an additional shift was possible, hence capacity utilization nearing or exceeding 130%. In 2011, operations were nearing normal capacity. Figure 14 shows that the average recovery factor steadily declined from 2004 to 2010 but increased in 2011.

Table 2: British Columbia Veneer Mill Summary Statistics

		1990…	1995…	2000...	2005	2006	2007	2008	2009	2010	2011	% change 1990-2011
Number of Mills		20	17	16	17	16	15	13	12	10	11	-45%
Total Capacity	(billion square feet 3/8" basis)	2.1	2.1	2.0	2.6	2.5	2.3	2.0	2.1	1.8	2.1	0%
Total Output	(billion square feet 3/8" basis)	2.3	2.4	2.6	3.7	3.3	2.9	2.3	1.9	2.0	2.2	-4%
Total Log Input	(thousand cubic metres)	4.4	4.1	4.4	6.3	5.7	5.1	4.0	3.4	3.6	3.8	-14%
Average Capacity	(million square feet per mill)	105	124	125	153	156	153	154	175	180	191	82%
Average Log Input	(thousand cubic metres per mill)	220	244	274	371	356	340	308	283	360	345	57%
Capacity Utilization	(output divided by capacity)	110%	112%	126%	141%	132%	126%	115%	90%	111%	105%	-4%
Recovery Factor	(square feet per cubic metre log input)	523	585	591	587	579	569	575	559	556	579	11%

Source: Major Primary Timber Processing Facilities in British Columbia, ministry database, various years

Notes:

Output Capacity is estimated based on two 8 hour shifts, 240 days per year.

Small mills using an average of less than 25,000 cubic metres of logs per year are not included in these statistics.

Figure 11: B.C. Veneer Mills
Capacity, Output and Log Input

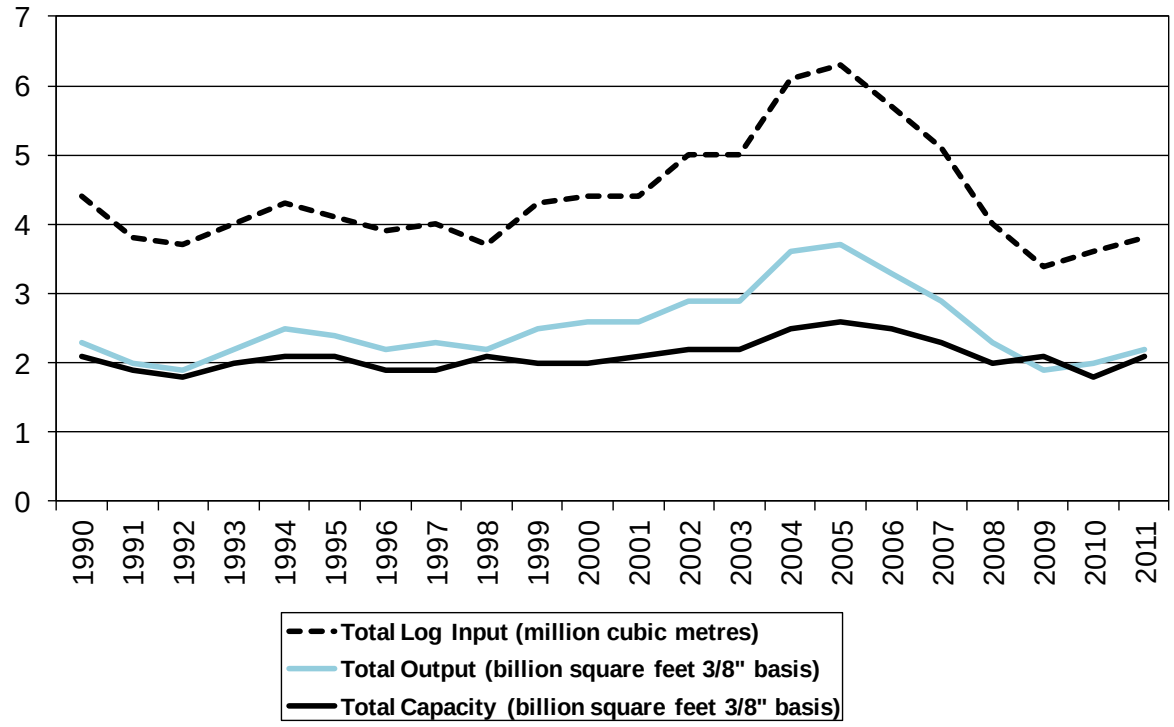


Figure 12: B.C. Veneer Mills
Number of Mills and Average Capacity

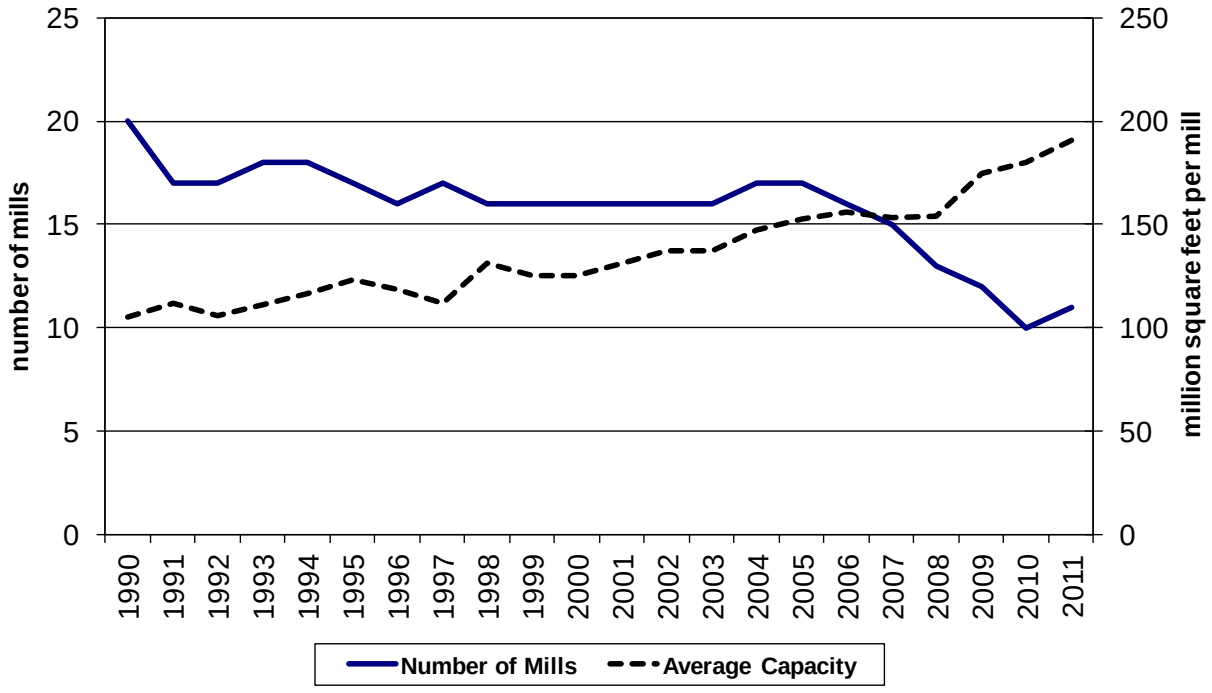


Figure 13: B.C. Veneer Mills
Capacity Utilization

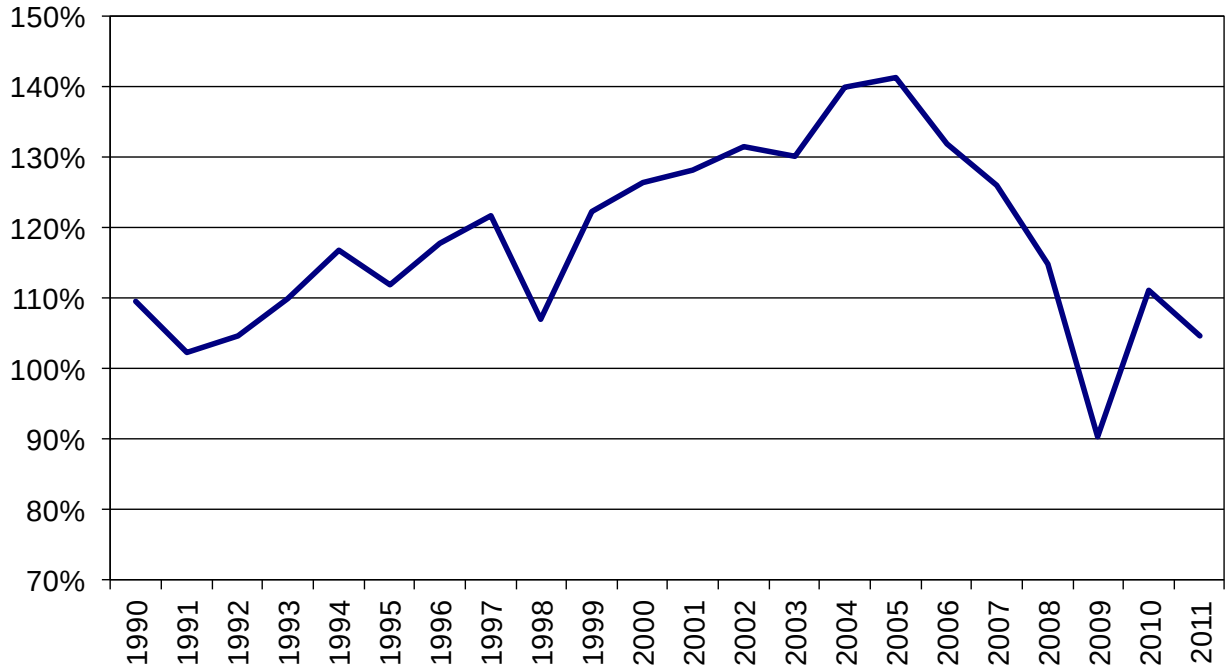
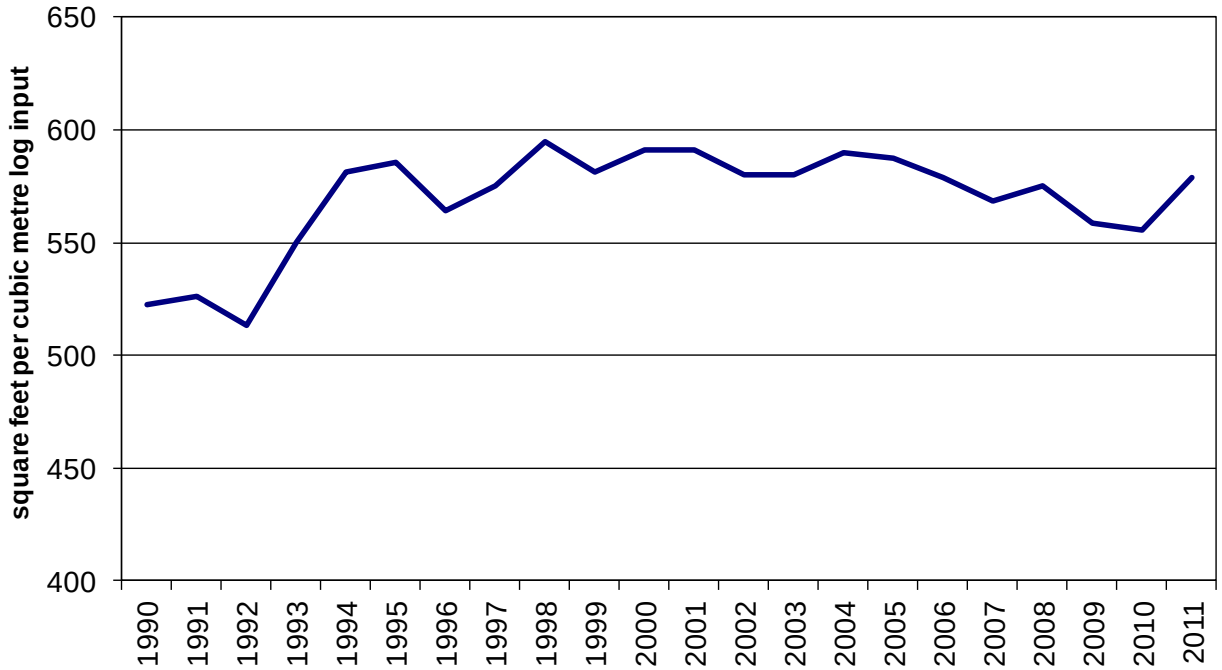


Figure 14: B.C. Veneer Mills
Recovery Factor



3) Pulp and Paper Mills

Pulp is used primarily as a raw material for paper and paperboard products as well as packaging. There were 18 pulp mills and 6 paper mills in B.C. in 2011, with all six paper mills integrated with the pulp operations. Seven of the 18 pulp mills are on the Coast and 11 are in the Interior while five of the paper mills are on the Coast and only one is in the Interior. The main pulp products are bleached softwood kraft pulp and chemi-thermo-mechanical pulp (CTMP). Most of the paper produced in B.C. is newsprint.

As lumber mills increased production, whole log chipping at pulp mills declined from the high of over 11% of fibre input in 2009 to 8.6% in 2011. In contrast with 8 pulp mills operating wood rooms in 2009, only 3 required the use of whole log chipping operations in 2011.

Table 3 presents an overview of pulp and paper mills in the province for 1991-2011. Total pulp mill capacity and output in B.C. have declined steadily since 1991. The pulp sector lost 0.65 million tonnes of capacity in 2010. In 2011, output matched input as seen in Figures 15 and 16.

Paper mill capacity and output took the most significant drop since 1991 by losing 1.0 million tonnes of capacity and output in 2010, a decline in capacity of 40%, as seen in Figure 17. In 2010 and 2011, average capacity was 253,000 tonnes per mill and capacity utilization was only slightly below 100%.

Since 2009, two pulp and two related paper mills have closed and a pulp mill has re-opened. Closures in 2010 include Catalyst Paper's[5] Elk Falls pulp and paper facilities near Campbell River, listed as Duncan Bay in previous reports, and the Eurocan pulp and paper Mill in Kitimat, operated by the West Fraser Timber Company. In 2010, the Mackenzie Pulp Corporation reopened the pulp mill in Mackenzie which was previously operated in 2007 by Pope and Talbot Ltd.

[5]Catalyst paper also closed a recycled pulp plant in Coquitlam, which was a de-inking facility. This plant was not included in pulp mill statistics in previous editions and is not included in Table 3.

Table 3: British Columbia Pulp and Paper Mill Summary Statistics

		1991…	1995…	2000...	2005	2006	2007	2008	2009	2010	2011	% change 1991-2011
Number of Pulp Mills		24	24	23	22	21	21	19	19	18	18	-25%
Total Capacity	(million tonnes)	8.42	8.21	7.84	7.42	7.42	6.84	6.36	6.33	5.68	5.74	-32%
Total Output	(million tonnes)	6.68	7.30	7.56	7.09	7.08	6.51	5.85	5.27	5.42	5.71	-15%
Total Fibre Input	(million bone dry units)	11.76	12.75	13.44	12.36	11.79	10.96	10.12	8.87	9.27	10.13	-14%
Average Capacity	(thousand tonnes)	351	342	341	337	353	326	335	333	316	319	-9%
Average Fibre Input	(thousand bone dry units)	490	531	584	562	562	522	532	467	515	563	15%
Capacity Utilization		79%	89%	96%	96%	95%	95%	92%	83%	95%	100%	25%
Number of Paper Mills		12	11	11	11	11	9	9	8	6	6	-50%
Total Capacity	(million tonnes)	3.47	3.06	3.27	2.98	3.19	2.86	2.84	2.52	1.52	1.52	-56%
Total Output	(million tonnes)	2.74	2.75	3.17	3.02	3.04	2.55	2.42	2.03	1.49	1.48	-46%
Average Capacity	(thousand tonnes)	289	278	297	271	290	318	315	315	253	253	-13%
Capacity Utilization		79%	90%	97%	101%	95%	89%	85%	81%	98%	98%	24%

Source: Major Primary Timber Processing Facilities in British Columbia, ministry database, various years

Notes:

Estimated annual capacity is based on a standardized operation of 345 operating days per year, one 24-hour shift per day. Actual operations may vary from this schedule.

Pulp mills included in these statistics are those that use wood fibre input. A deinking pulp mill which used other input, such as waste paper, is not included in the table.

Figure 15: B.C. Pulp Mills
Capacity, Output and Input

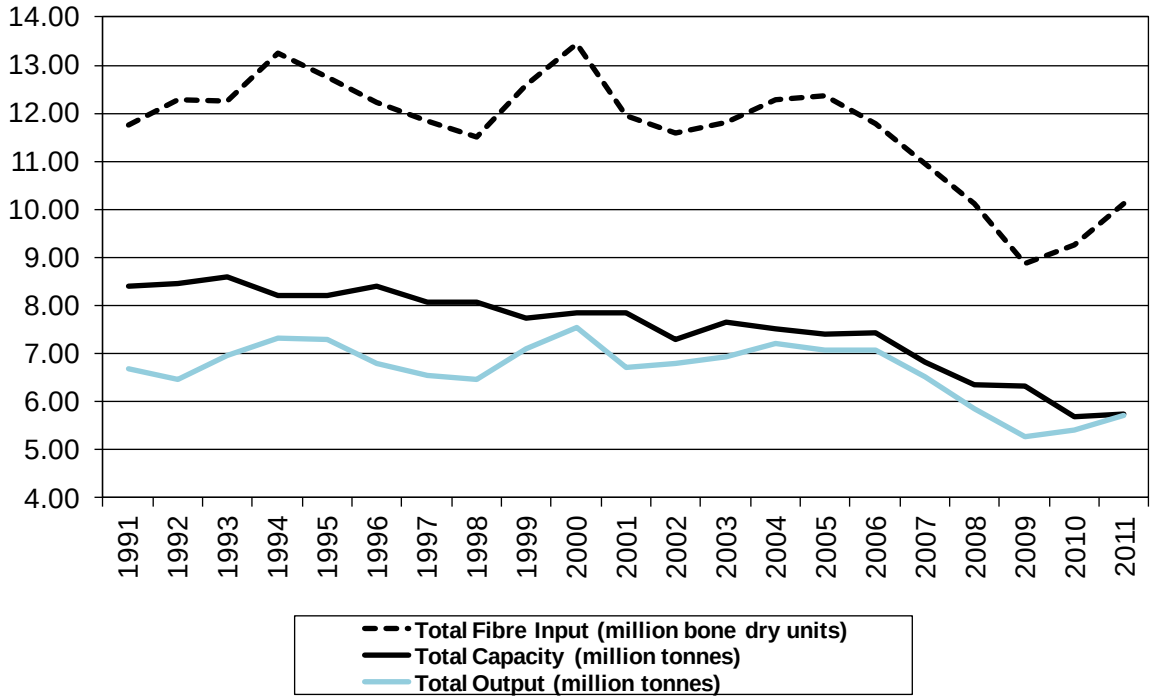


Figure 16: B.C. Pulp Mills Capacity Utilization

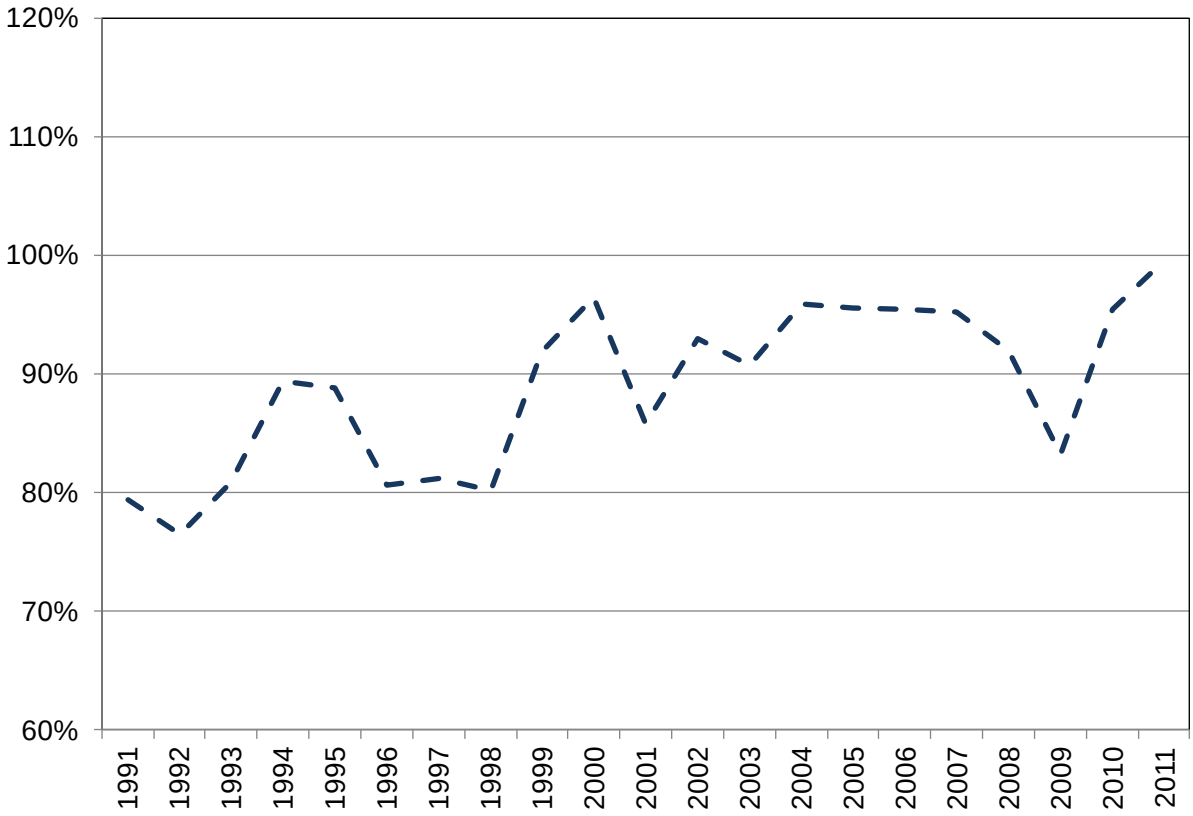


Figure 17: B.C. Paper Mills
Capacity and Output

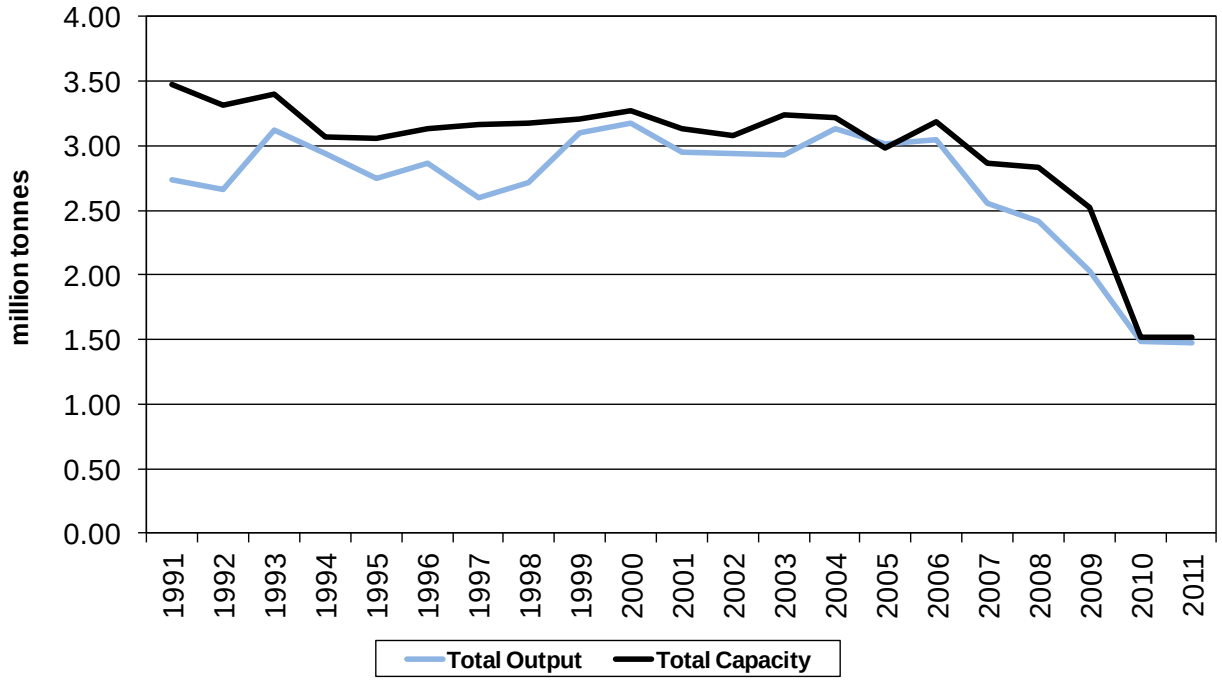
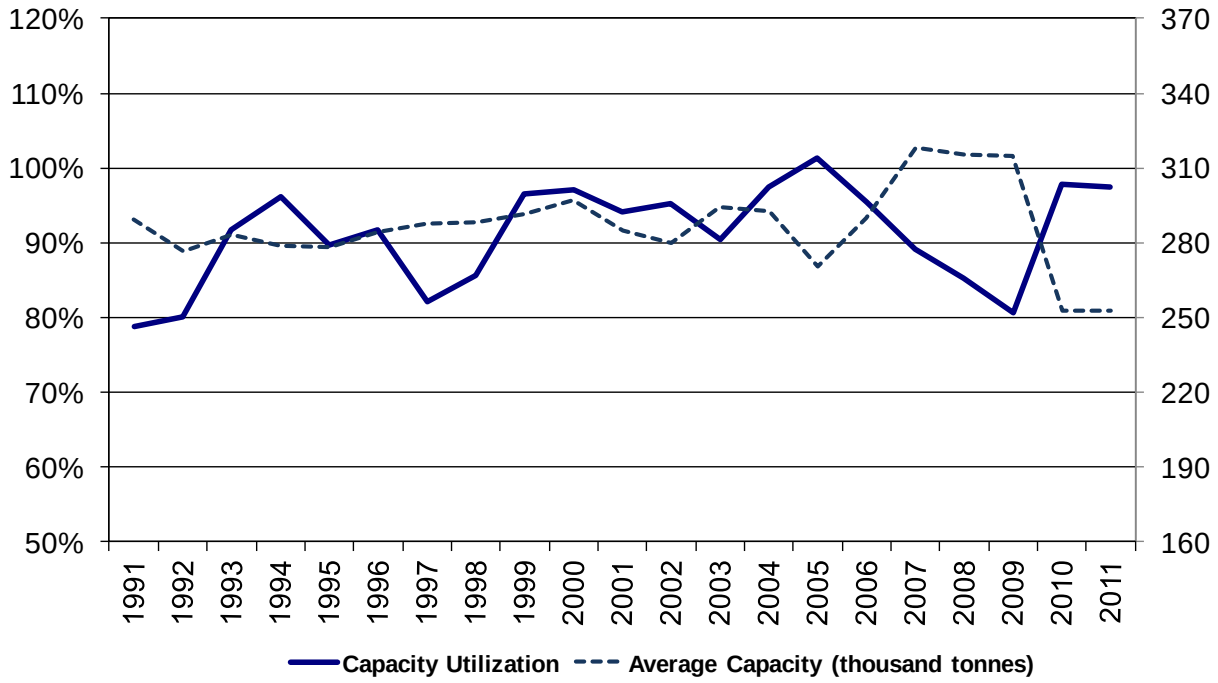


Figure 18: B.C. Paper Mills
Capacity Utilization and Average Capacity



4) Pellet Mills

Wood pellets are primarily used as wood fuel and are usually made from compacted sawdust. Pellets are produced from the byproducts of sawmilling and other wood processing activities. Most of the pellet production from British Columbia is shipped to European countries.

Table 4 shows that 11 pellet mills operated in B.C. in 2011. It is estimated that the total capacity for these mills was almost 2 million tonnes of pellets per year based on an operating schedule of three 8-hour shifts per day, 345 days per year. On average, mills ran at about 68% of capacity, producing about 1.36 million tonnes of pellets in 2011. The fibre used to produce this volume of pellets was about 1.28 million bone dry units, largely in the form of sawdust, which is equivalent to about 3.5 million cubic metres on a solid wood basis. After a downturn in output and capacity in 2009, capacity doubled between 2009 and 2011, as seen in Figure 17, with the addition of 2 new mills. Figure 18 shows that capacity utilization was highly variable as new mills, bringing additional capacity, were added to the sector.

Table 4: British Columbia Pellet Mill Summary Statistics

		2005	2006	2007	2008	2009	2010	2011	% change 2005-2011
Number of Mills		5	8	8	9	9	10	11	120%
Total Capacity	(million tonnes)	0.36	0.81	0.99	1.07	0.96	1.13	1.99	453%
Total Output	(million tonnes)	0.36	0.39	0.41	0.79	0.76	0.97	1.36	278%
Total Input	(million bone dry units)	0.41	0.44	0.47	0.81	0.68	0.97	1.28	212%
Average Capacity	(000s tonnes)	72	101	124	119	107	113	181	151%
Average Fibre Input	(thousand bone dry units per mill)	82	55	59	90	76	97	116	42%
Capacity Utilization	(output divided by capacity)	100%	48%	41%	74%	79%	86%	68%	-32%
Recovery Factor	(Tonnes of output per tonne of bone dry input)	0.88	0.89	0.87	0.98	1.12	1.00	1.06	21%

Source: Major Primary Timber Processing Facilities in British Columbia, ministry database, various years

Notes:

Output Capacity is estimated based on three 8 hour shifts, 345 days per year.

Figure 19: B.C. Pellet Mills
Capacity and Output

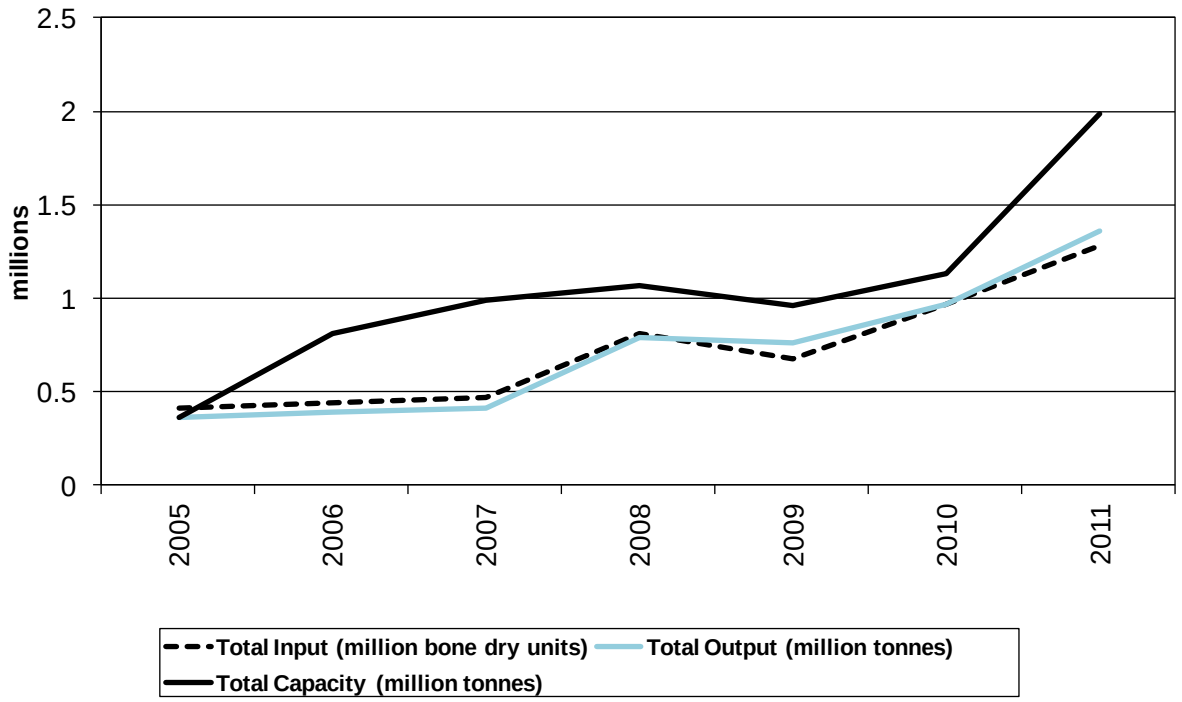
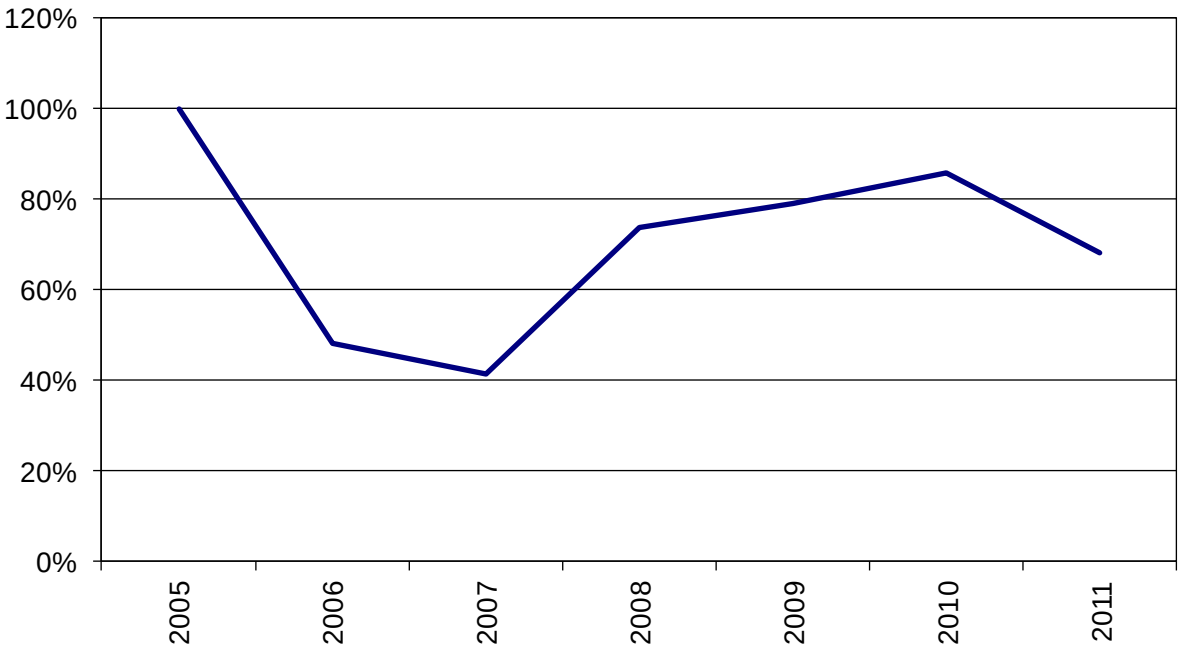


Figure 20: B.C. Pellet Mills
Capacity Utilization



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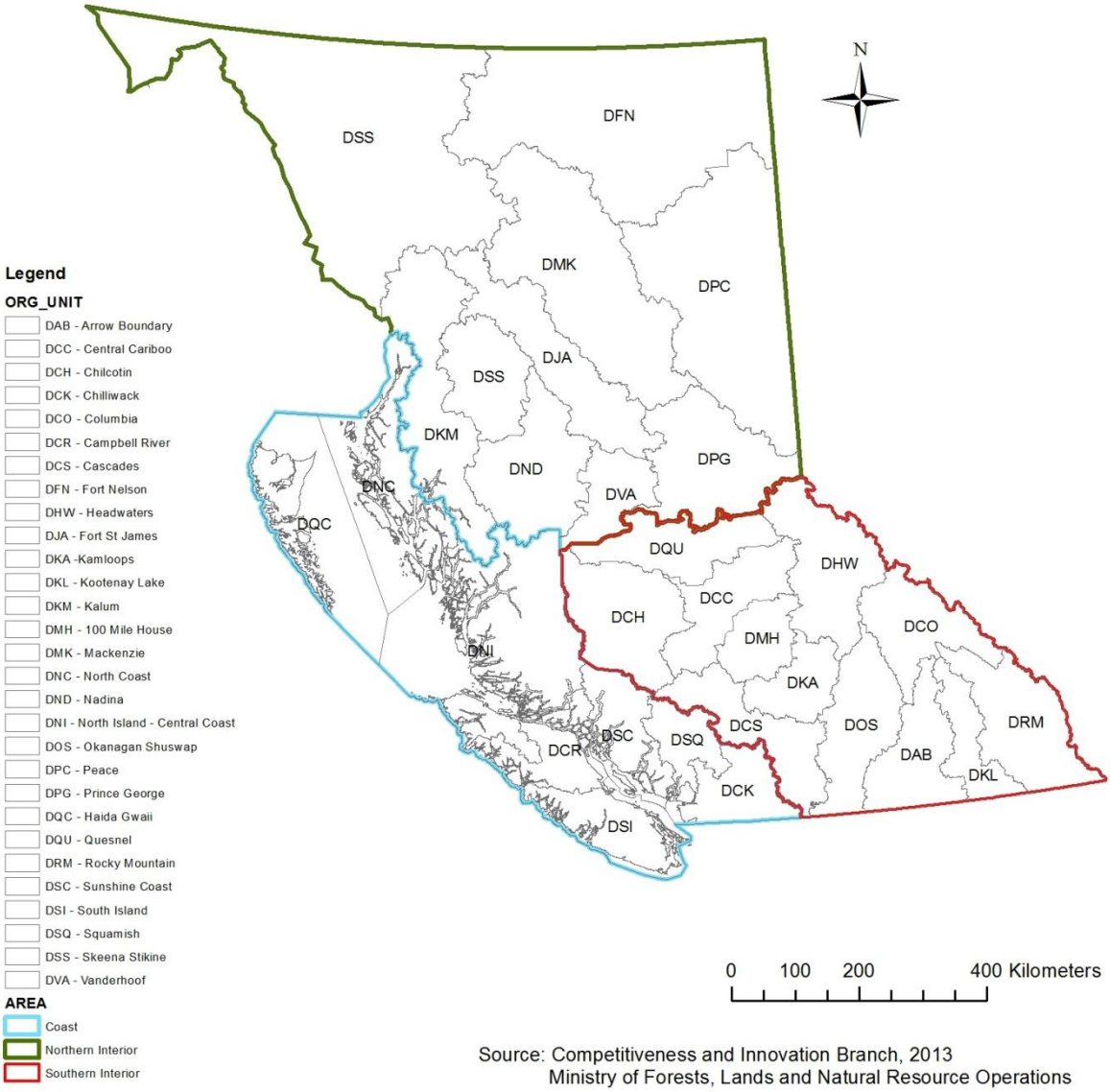
Appendix: List of Mills

Forest regions and districts

Figure 21. Historical region and forest district boundaries in 2009.



Source: Competitiveness and Innovation Branch, 2013
Ministry of Forests, Lands and Natural Resource Operations

Lumber Mills

(Listed Alphabetically)

Mills producing lumber provided in separate tables, one for those with estimated annual capacity above 40 million board feet of lumber and those below.

Notes:

1. Measurement units are in millions of board feet.

2. Estimated annual capacity is based on a standardized operation of 240 days per year, two 8 hour shifts per day. Actual mill operations may vary from this schedule.

3. Forest regions and districts are those that were applicable in 2009 (see Figure 21 on page 30).

LUMBER MILLS WITH CAPACITY GREATER THAN 40 MILLION BOARD FEET OF LUMBER IN 2011

Mill Number	Company	Location of Mill	2009 Forest Region	2009 Forest District	Estimated Annual Capacity (millions of board feet)
326	Delta Cedar Products Ltd.	Delta	Coast	Chilliwack	49
537	Goldwood Industries Ltd	Richmond	Coast	Chilliwack	58
297	International Forest Products Ltd.	Hammond	Coast	Chilliwack	166
283	International Forest Products Ltd.	Delta	Coast	Chilliwack	144
100	J.S. Jones	Surrey	Coast	Chilliwack	192
712	Long Hoh Enterprises Canada Ltd.	Qualicum Beach	Coast	South Island	43
396	Mainland Sawmills	Vancouver	Coast	Chilliwack	48
403	Mill & Timber Products Ltd.	Surrey	Coast	Chilliwack	58
336	Mill & Timber Products Ltd.	Port Moody	Coast	Chilliwack	130
22	Noble Custom Cut Ltd.	Whonnock	Coast	Chilliwack	48
454	S&R Sawmills Ltd	Surrey	Coast	Chilliwack	240
539	Stag Timber Ltd.	Surrey	Coast	Chilliwack	86
540	Terminal Forest Products Ltd.	Richmond	Coast	Chilliwack	245
453	Twin River Cedar Products Ltd.	Ruskin	Coast	Chilliwack	58
528	Western Forest Products	Port Alberni	Coast	South Island	145
392	Western Forest Products Inc.	Port Alberni	Coast	South Island	77
393	Western Forest Products Inc.	Chemainus	Coast	South Island	219
442	Western Forest Products Inc.	Ladysmith	Coast	South Island	147
376	Western Forest Products Inc.	Ladysmith	Coast	South Island	96
320	Western Forest Products Inc.	Cowichan Bay	Coast	South Island	163
531	Western Forest Products Inc.	Nanaimo	Coast	South Island	120
137	Apollo Forest Products Ltd.	Fort St James	Northern Interior	Fort St James	157
213	Babine Forest Products Limited	Burns Lake	Northern Interior	Nadina	288
122	Canadian Forest Product Ltd.	Fort St John	Northern Interior	Peace	216
166	Canadian Forest Products Ltd.	Prince George	Northern Interior	Prince George	291
160	Canadian Forest Products Ltd.	Bear Lake	Northern Interior	Prince George	205
193	Canadian Forest Products Ltd.	Houston	Northern Interior	Nadina	528
135	Canadian Forest Products Ltd.	Isle Pierre	Northern Interior	Prince George	221
140	Canadian Forest Products Ltd.	Engen	Northern Interior	Vanderhoof	498
127	Canadian Forest Products Ltd.	Chetwynd	Northern Interior	Peace	189
130	Canadian Forest Products Ltd.	Mackenzie	Northern Interior	Mackenzie	211
150	Carrier Lumber Ltd	Prince George	Northern Interior	Prince George	178
129	Conifex Timber Inc.	Mackenzie	Northern Interior	Mackenzie	192
133	Conifex Timber Inc.	Fort St James	Northern Interior	Fort St James	276
181	Decker Lake Forest Products Ltd.	Burns Lake	Northern Interior	Nadina	91
158	Dunkely Lumber Ltd	Strathnaver	Northern Interior	Prince George	528
530	Houston Forest Products	Houston	Northern Interior	Nadina	250
184	Kitwanga Mills Ltd.	Kitwanga	Northern Interior	Skeena Stikine	49
144	L & M Lumber Ltd.	Vanderhoof	Northern Interior	Vanderhoof	219
149	Lakeland Mills Ltd	Prince George	Northern Interior	Prince George	149

LUMBER MILLS WITH CAPACITY GREATER THAN 40 MILLION BOARD FEET OF LUMBER IN

Mill Number	Company	Location of Mill	2009 Forest Region	2009 Forest District	Estimated Annual Capacity (millions of board feet)
191	Pacific Inland Resources	Smithers	Northern Interior	Skeena Stikine	265
552	West Fraser Mills Ltd.	Chetwynd	Northern Interior	Peace	269
532	West Fraser Mills Ltd.	LeJac	Northern Interior	Vanderhoof	272
207	Ardew Wood Products Ltd	Merritt	Southern Interior	Cascades	59
498	Aspen Planers Ltd.	Merritt	Southern Interior	Cascades	192
64	Canadian Forest Products Ltd.	Vavenby	Southern Interior	Headwaters	164
110	Canadian Forests Products Ltd.	Quesnel	Southern Interior	Quesnel	219
45	Downie Timber Limited	Revelstoke	Southern Interior	Columbia	106
86	Galloway Lumber Co. Ltd.	Galloway	Southern Interior	Rocky Mountain	70
66	Gilbert Smith Forest Products Ltd.	Barriere	Southern Interior	Kamloops	42
14	Gorman Bros Lumber Ltd.	Westbank	Southern Interior	Okanagan Shuswap	125
30	International Forest Products Ltd.	Grand Forks	Southern Interior	Arrow Boundary	120
62	International Forest Products Ltd.	Castlegar	Southern Interior	Arrow Boundary	240
70	International Forest Products Ltd.	Adams Lake	Southern Interior	Kamloops	345
88	J H Huscroft Ltd.	Erickson	Southern Interior	Kootenay Lake	58
50	Kalesnikoff Lumber Co. Ltd.	Thrums	Southern Interior	Arrow Boundary	72
603	Meadow Creek Cedar Ltd.	Cooper Creek	Southern Interior	Kootenay Lake	48
618	North Enderby Timber Ltd.	Enderby	Southern Interior	Okanagan Shuswap	48
626	Porcupine Wood Products Ltd.	Salmo	Southern Interior	Arrow Boundary	58
740	Riverwest Forest Products Ltd.	Hanceville	Southern Interior	Chilcotin	72
750	Sigurdson Forest Products Ltd	Williams Lake	Southern Interior	Central Cariboo	72
55	Springer Creek Forest Products	Slocan	Southern Interior	Arrow Boundary	115
79	Tembec Industries Ltd.	Canal Flats	Southern Interior	Rocky Mountain	173
82	Tembec Industries Ltd.	Elko	Southern Interior	Rocky Mountain	155
107	Tolko Industries Ltd.	Williams Lake	Southern Interior	Central Cariboo	197
103	Tolko Industries Ltd.	Williams Lake	Southern Interior	Central Cariboo	286
25	Tolko Industries Ltd.	Merritt	Southern Interior	Cascades	264
20	Tolko Industries Ltd.	Lavington	Southern Interior	Okanagan Shuswap	230
68	Tolko Industries Ltd.	Armstrong	Southern Interior	Okanagan Shuswap	233
67	Tolko Industries Ltd.	Kelowna	Southern Interior	Okanagan Shuswap	190
98	Tolko Industries Ltd.	Quesnel	Southern Interior	Quesnel	192
31	Vaagen Fibre Canada	Midway	Southern Interior	Arrow Boundary	134
114	West Fraser Mills Ltd.	Williams Lake	Southern Interior	Central Cariboo	170
113	West Fraser Mills Ltd.	Quesnel	Southern Interior	Quesnel	371
95	West Fraser Mills Ltd.	100 Mile House	Southern Interior	100 Mile House	356
214	West Fraser Mills Ltd.	Clinton	Southern Interior	100 Mile House	240
29	Weyerhaeuser Company Ltd.	Princeton	Southern Interior	Cascades	171

LUMBER MILLS WITH CAPACITY LESS THAN 40 MILLION BOARD FEET OF LUMBER IN 2011

Mill Number	Company	Location of Mill	2009 Forest Region	2009 Forest District	Estimated Annual Capacity (millions of board feet)
9	A J Forest Products ltd.	Brackendale	Coast	Squamish	19.2
5	Abfam Enterprises Ltd.	Port Clements	Coast	Haida Gwaii	16.8
8	Andersen Pacific Forest Products Ltd	Ruskin	Coast	Chilliwack	30.7
905	Blacktail Enterprises	Black Creek	Coast	Campbell River	1.0
986	Brasier Mill	Masset	Coast	Haida Gwaii	0.5
117	Continental Pole Ltd.	Pemberton	Coast	Squamish	1.9
377	Coulson Manufacturing Ltd.	Port Alberni	Coast	South Island	27.8
741	Dove Creek Timber Corp	Courtenay	Coast	Campbell River	9.6
26	Edge Grain Cedar Ltd.	Maple Ridge	Coast	Chilliwack	0.1
717	Edge Grain Forest Products Ltd.	Woss	Coast	North Island - Central Coast	0.9
301	Errington Cedar Products Ltd.	Errington	Coast	South Island	16.7
714	Franklin Forest Products Ltd.	Port Alberni	Coast	South Island	19.2
319	Fu So Enterprises Ltd.	Surrey	Coast	Chilliwack	9.6
679	G.C. Williams Milling	Malcolm Island	Coast	North Island - Central Coast	1.9
567	Green Forest Products Ltd.	Merville	Coast	Campbell River	0.7
743	Island Woodlots Ltd	Sointula	Coast	North Island - Central Coast	1.0
512	Jemico Enterprises Ltd.	Chemainus	Coast	South Island	16.8
495	Ken K. Foote Contracting (2008)Ltd.	Sandspit	Coast	Haida Gwaii	0.5
399	Lois Lumber Ltd.	Lang Bay	Coast	Sunshine Coast	8.6
194	Mike Gogo Cedar Products	Nanaimo	Coast	South Island	1.2
985	Moonshine Milling	Sandspit	Coast	Haida Gwaii	0.3
408	Nagaard Sawmills Ltd.	Port Alberni	Coast	South Island	14.4
951	Rainforest Resources Ltd.	Port Hardy	Coast	North Island - Central Coast	0.1
23	Shannon Lumber	Mission	Coast	Chilliwack	9.6
654	Spiketop Cedar Ltd.	Port Hardy	Coast	North Island - Central Coast	1.0
24	Suncoast Lumber & Milling	Sechelt	Coast	Sunshine Coast	11.5
96	Thomson Bros Lumber Co. Ltd	Courtenay	Coast	Campbell River	4.8
546	Western Forest Products Inc.	Duke Point	Coast	South Island	15.6
732	550031 BC Ltd (PG Sortyard)	Prince George	Northern Interior	Prince George	24.0
10	BC Custom Timber Products Ltd.	Vanderhoof	Northern Interior	Vanderhoof	14.4
993	Treeco Timber Corporation	Prince George	Northern Interior	Prince George	1.0
715	100 Mile Wood Products	100 Mile House	Southern Interior	100 Mile House	3.8
990	Alan Hyde Sawmill	Sicamous	Southern Interior	Okanagan Shuswap	1.0
255	Buff Lumber Ltd	Westwold	Southern Interior	Okanagan Shuswap	12.0
252	C&C Wood Products Ltd.	Quesnel	Southern Interior	Quesnel	25.9
987	Cambie Cedar Products Ltd.	Sicamous	Southern Interior	Okanagan Shuswap	10.1
983	Colborne Lumber	Clearwater	Southern Interior	Headwaters	0.8

LUMBER MILLS WITH CAPACITY LESS THAN 40 MILLION BOARD FEET OF LUMBER IN

Mill Number	Company	Location of Mill	2009 Forest Region	2009 Forest District	Estimated Annual Capacity (millions of board feet)
32	Gibbs Custom Sawmill Ltd.	McBride	Southern Interior	Headwaters	1.2
957	Gold Island Forest Products Ltd.	Slocan	Southern Interior	Arrow Boundary	16.8
975	Harold Turner	Pritchard	Southern Interior	Kamloops	0.8
172	Hauer Bros. Lumber Ltd.	Tete Jaune Cache	Southern Interior	Headwaters	16.8
47	Joe Kozek Sawmills Ltd.	Revelstoke	Southern Interior	Columbia	14.4
597	Lakeside Timber Ltd.	Tappen	Southern Interior	Okanagan Shuswap	16.8
998	Les Savarella Contracting	McBride	Southern Interior	Headwaters	0.1
197	McDonald Ranch & Lumber Ltd	Grasmere	Southern Interior	Rocky Mountain	2.9
974	Murray Kane Site 6LW	Clinton	Southern Interior	100 Mile House	0.5
199	North Star Planing Co. Ltd.	Athalmer	Southern Interior	Rocky Mountain	3.8
988	Northstar Log & Timberframe	Winfield	Southern Interior	Okanagan Shuswap	1.0
977	Pioneer Timber Group	Williams Lake	Southern Interior	Central Cariboo	38.6
271	Rourke Bros Sawmill Ltd	Lumby	Southern Interior	Okanagan Shuswap	5.8
991	T & N Custom Sawmill	Enderby	Southern Interior	Okanagan Shuswap	1.4
229	Wadlegger Log & Constr. Co.	Raft River	Southern Interior	Headwaters	4.8
979	Woodco Management Ltd	Barriere	Southern Interior	Kamloops	17.3
87	Woodex Industries Ltd	Edgewater	Southern Interior	Rocky Mountain	36.0
93	Wynndel Box & Lumber Co. Ltd.	Wynndel	Southern Interior	Kootenay Lake	40.0

Pulp and Paper Mills

(Listed Alphabetically)

Mills producing pulp and paper are listed in this section. For integrated mills, pulp capacity includes pulp that is used internally to produce paper, and pulp that is shipped from the mill site as market pulp.

Notes:

1. Measurement units are in thousands of tonnes.

2. Estimated annual capacity is based on a standardized operation of 345 operating days per year, 24 hours per day. Actual operations may vary from this schedule.

3. Forest regions and districts are those that were applicable in 2009 (see Figure 21 on page 30).

PULP AND PAPER MILLS - 2011

Mill Number	Company	Location of Mill	Product	2009 Forest Region	2009 Forest District	Estimated Annual Capacity (000s of tonnes)
960	Canadian Forest Products Ltd.	Prince George	PLP	Northern Interior	Prince George	313
500	Canadian Forest Products Ltd.	Prince George	PLP	Northern Interior	Prince George	140
335	Canadian Forest Products Ltd.	Taylor	PLP	Northern Interior	Peace	210
503	Canadian Forest Products Ltd.	Prince George	PLP	Northern Interior	Prince George	568
497	Cariboo Pulp & Paper Company	Quesnel	PLP	Southern Interior	Quesnel	331
487	Catalyst Paper	Port Alberni	PLP	Coast	South Island	186
486	Catalyst Paper Corp.	Powell River	PLP	Coast	Sunshine Coast	354
483	Catalyst Paper Corp.	Crofton	PLP	Coast	South Island	373
2	Domtar	Kamloops	PLP	Southern Interior	Kamloops	460
484	Howe Sound Pulp & Paper Corporation	Port Mellon	PLP	Coast	Sunshine Coast	725
491	Kruger Products L.P.	New Westminster	PLP	Coast	Chilliwack	31
505	Mackenzie Pulp Mill Corporation	Mackenzie	PLP	Northern Interior	Mackenzie	224
488	Nanaimo Forest Products Ltd.	Cedar	PLP	Coast	South Island	327
489	Neucel Specialty Cellulose	Port Alice	PLP	Coast	North Island - Central Coast	173
553	Quesnel River Pulp Company	Quesnel	PLP	Southern Interior	Quesnel	370
205	Tembec Industries Ltd.	Chetwynd	PLP	Northern Interior	Peace	205
1	Tembec Industries Ltd.	Skookumchuk	PLP	Southern Interior	Rocky Mountain	248
501	Zellstoff Celgar Limited Partnership	Castlegar	PLP	Southern Interior	Arrow Boundary	503
500	Canadian Forest Products Ltd.	Prince George	PPR	Northern Interior	Prince George	132
487	Catalyst Paper - Port Alberni Division	Port Alberni	PPR	Coast	South Island	318
486	Catalyst Paper Corp.	Powell River	PPR	Coast	Sunshine Coast	424
483	Catalyst Paper Corp.	Crofton	PPR	Coast	South Island	288
484	Howe Sound Pulp & Paper Corporation	Port Mellon	PPR	Coast	Sunshine Coast	259
491	Kruger Products L.P.	New Westminster	PPR	Coast	Chilliwack	95

Veneer, Plywood, OSB and Other Panel Mills

(Listed Alphabetically by product)

Mills producing veneer, plywood and other types of panel are listed in this section. For mills that produce both market veneer and plywood, veneer capacity includes market veneer and the veneer that is used within the mill to manufacture plywood. Panel mills that use wood residuals to produce panels or that do not have log-processing capability are also listed in this report.

Notes:

1. Measurement units are in millions of square feet, 3/8" basis (mill. sq. ft.,3/8").

2. Estimated annual capacity for veneer mills is based on a standardized operation of 240 days per year, two 8 hour shifts per day. For plywood mills, estimated annual capacity is based on a standardized operation of 240 days per year, three 8 hour shifts per day. For OSB and other Panel mills, estimated annual capacity is based on a standardized operation of 345 days per year, three 8 hour shifts per day. Actual operations may vary from these schedules.

3. Forest regions and districts are those that were applicable in 2009 (see Figure 21 on page 30).

VENEER, PLYWOOD, OSB AND OTHER PANEL MILLS - 2011

Mill Number	Company	Location of Mill	Product	2009 Forest Region	2009 Forest District	Estimated Annual Capacity (million sq. ft, 3/8" basis)
411	Ainsworth Lumber Co Ltd	100 Mile House	OSB	Southern Interior	100 Mile House	458
650	Louisiana Pacific/Tembec Operation	Dawson Creek	OSB	Northern Interior	Peace	388
942	Peace Valley OSB	Fort St John	OSB	Northern Interior	Peace	1490
12	Federated Co-operatives Limited	Canoe	PLY	Southern Interior	Okanagan Shuswap	418
84	LP Building Products - Canada	Golden	PLY	Southern Interior	Columbia	16
478	Richmond Plywood Corporation Limited	Richmond	PLY	Coast	Chilliwack	216
109	Savona Specialty Plywood	Savona	PLY	Southern Interior	Kamloops	1500
394	Tolko Industries Ltd.	Heffley Creek	PLY	Southern Interior	Kamloops	186
68	Tolko Industries Ltd.	Armstrong	PLY	Southern Interior	Okanagan Shuswap	252
112	West Fraser Mills Limited	Quesnel	PLY	Southern Interior	Quesnel	214
105	West Fraser Mills Ltd.	Williams Lake	PLY	Southern Interior	Central Cariboo	194
357	Northern Engineered Wood Products (2007) In	Smithers	PNL	Northern Interior	Skeena Stikine	94
113	West Fraser Mills Ltd.	Quesnel	PNL	Southern Interior	Quesnel	311
115	Aspen Planers Ltd	Lillooet	VNR	Southern Interior	Cascades	264
51	ATCO Wood Products Ltd.	Fruitvale	VNR	Southern Interior	Arrow Boundary	110
34	B C Veneer Products Ltd	Surrey	VNR	Coast	Chilliwack	1
508	CIPA Lumber Co. LTD	Annacis Island	VNR	Coast	Chilliwack	216
244	Coastland Wood Industries Ltd.	Nanaimo	VNR	Coast	South Island	408
12	Federated Co-operatives Limited	Canoe	VNR	Southern Interior	Okanagan Shuswap	288
84	LP Building Products - Canada	Golden	VNR	Southern Interior	Columbia	16
478	Richmond Plywood Corporation Limited	Richmond	VNR	Coast	Chilliwack	187
982	Silver Dew Hardwoods Limited	Clearwater	VNR	Southern Interior	Headwaters	0
35	Tolko Industries Ltd.	Lumby	VNR	Southern Interior	Okanagan Shuswap	192
394	Tolko Industries Ltd.	Heffley Creek	VNR	Southern Interior	Kamloops	163
112	West Fraser Mills Limited	Quesnel	VNR	Southern Interior	Quesnel	156
105	West Fraser Mills Ltd.	Williams Lake	VNR	Southern Interior	Central Cariboo	120

Chip Mills

(Listed Alphabetically)

Only mills that produce wood chips as a primary product are listed in this section.

Notes:

1. Measurement units are in thousands of bone dry units (000 BDUs).

2. Estimated annual capacity is based on a standardized operation of 240 days per year, two 8 hour shifts per day. Actual operations may vary from this schedule.

3. Forest regions and districts are those that were applicable in 2009 (see Figure 21 on page 30).

CHIP MILLS - 2011

Mill Number	Company	Location of Mill	2009 Forest Region	2009 Forest District	Estimated Annual Capacity (000s of BDUs)
446	Campbell River Fibre Ltd.	Campbell River	Coast	Campbell River	86
924	Chips Ahoy Fibre Supply Ltd	Mission	Coast	Chilliwack	130
345	DCT Chambers Trucking Ltd.	Chemainus	Coast	South Island	187
356	East Fraser Fibre Co Ltd.	Mackenzie	Northern Interior	Mackenzie	240
409	Howe Sound Pulp & Paper Ltd.	Vancouver	Coast	Chilliwack	293
937	Pacific Fibre Ltd.	Port Mellon	Coast	Sunshine Coast	149
952	River City Fibre	Kamloops	Southern Interior	Kamloops	216
18	Terminal Forest Products Ltd	Langdale Dryland Sort	Coast	Sunshine Coast	91
394	Tolko Industries Ltd.	Heffley Creek	Southern Interior	Kamloops	77
68	Tolko Industries Ltd.	Armstrong	Southern Interior	Okanagan Shuswap	96

Pellet Mills

(Listed Alphabetically)

Mills producing wood pellets for bio-energy are listed in this section.

Notes:

1. Measurement units are in thousands of tonnes.

2. Estimated annual capacity for pellet mills is based on a standardized operation of 345 days per year, three 8 hour shifts per day. Actual operations may vary from these schedules.

3. Forest regions and districts are those that were applicable in 2009 (see Figure 21 on page 30).

PELLET MILLS - 2011

Mill Number	Company	Location of Mill	2009 Forest Region	2009 Forest District	Estimated Annual Capacity ('000s of tonnes)
947	Houston Pellet Limited Partnership	Houston	Northern Interior	Nadina	225
935	Okanagan Pellet Company	Westbank	Southern Interior	Okanagan Shuswap	66
930	Pacific Bioenergy	Prince George	Northern Interior	Prince George	345
929	Pinnacle Renewable Energy Inc.	Armstrong	Southern Interior	Okanagan Shuswap	69
980	Pinnacle Renewable Energy Inc.	Burns Lake	Northern Interior	Nadina	414
976	Pinnacle Renewable Energy Inc.	Strathnaver	Northern Interior	Prince George	225
931	Pinnacle Renewable Energy Inc.	Quesnel	Southern Interior	Quesnel	104
948	Pinnacle Renewable Energy Inc.	Williams Lake	Southern Interior	Central Cariboo	207
932	Premium Pellet Ltd.	Vanderhoof	Northern Interior	Vanderhoof	169
933	Princeton Co-Generation Corp.	Princeton	Southern Interior	Cascades	107
995	Vanderhoof Specialty Wood Products	Vanderhoof	Northern Interior	Vanderhoof	62

Pole and Post Mills

(Listed Alphabetically by Pole type)

Mills producing poles and posts are listed in this section.

Notes:

1. Measurement units are in thousands of pieces (‘000 pcs).

2. Estimated annual capacity is based on a standardized operation of 240 days per year, one 8 hour shift per day, although actual mill operations may vary from this schedule.

3. Forest regions and districts are those that were applicable in 2009 (see Figure 21 on page 30).

TYPES OF POLE MILLS - 2011

Mill Number	Company	Location of Mill	Product	2009 Forest Region	2009 Forest District	Estimated Annual Capacity ('000s of pieces)
498	Aspen Planers Ltd.	Merritt	PLE	Southern Interior	Cascades	960
724	Integrated Pole	100 Mile House	PLE	Southern Interior	100 Mile House	11
279	J. R. Blackmore & Sons Ltd.	Lumberton	PLE	Southern Interior	Rocky Mountain	180
250	Nicola Post and Rail Ltd.	Merritt	PLE	Southern Interior	Cascades	120
725	O'Brien & Fuerst Logging Ltd	Port Clements	PLE	Coast	Haida Gwaii	12
677	Pacific Inland Pole & Piling Ltd.	Nakusp	PLE	Southern Interior	Arrow Boundary	12
237	Princeton Post and Rail Co. Ltd.	Princeton	PLE	Southern Interior	Cascades	144
498	Aspen Planers Ltd.	Merritt	PST	Southern Interior	Cascades	480
390	Box Lake Lumber Products Ltd.	Nakusp	PST	Southern Interior	Arrow Boundary	504
997	Cedar 3 Products (R3 91 Enterprises L	McBride	PST	Southern Interior	Headwaters	288
117	Continental Pole Ltd.	Pemberton	PST	Coast	Squamish	0
279	J. R. Blackmore & Sons Ltd.	Lumberton	PST	Southern Interior	Rocky Mountain	960
970	KDL Group - Northern Forest Products	Fort St James	PST	Northern Interior	Fort St James	760
607	Monte Lake Forest Products Inc	Monte Lake	PST	Southern Interior	Okanagan Shuswap	2
250	Nicola Post and Rail Ltd.	Merritt	PST	Southern Interior	Cascades	60
725	O'Brien & Fuerst Logging Ltd	Port Clements	PST	Coast	Haida Gwaii	6
739	Panhandle Forest Products	Lumberton	PST	Southern Interior	Rocky Mountain	168
237	Princeton Post and Rail Co. Ltd.	Princeton	PST	Southern Interior	Cascades	480
232	Princeton Wood Preservers Ltd.	Princeton	PST	Southern Interior	Cascades	612
619	Quinton Bros.	Caven	PST	Southern Interior	Rocky Mountain	600
343	TRC Cedar Ltd.	McBride	PST	Southern Interior	Headwaters	540
659	Brisco Wood Preservers Ltd.	Brisco	UTI	Southern Interior	Rocky Mountain	12
556	Chinook Forest Products Ltd.	Courtenay	UTI	Coast	Campbell River	24
117	Continental Pole Ltd.	Pemberton	UTI	Coast	Squamish	17
181	Decker Lake Forest Products Ltd.	Burns Lake	UTI	Northern Interior	Nadina	18
40	Gorman Bros. Lumber Ltd.	Lumby	UTI	Southern Interior	Okanagan Shuswap	35
724	Integrated Pole	100 Mile House	UTI	Southern Interior	100 Mile House	11
725	O'Brien & Fuerst Logging Ltd	Port Clements	UTI	Coast	Haida Gwaii	5
677	Pacific Inland Pole & Piling Ltd.	Nakusp	UTI	Southern Interior	Arrow Boundary	18
188	Paterson Pole Ltd.	Rossland	UTI	Southern Interior	Arrow Boundary	36
619	Quinton Bros.	Caven	UTI	Southern Interior	Rocky Mountain	19
648	Selkirk Forest Products Ltd.	Galloway	UTI	Southern Interior	Rocky Mountain	60
729	Sierra Cascade Resources	Kelsey Bay	UTI	Coast	Campbell River	0
48	Stella-Jones Canada Inc.	Revelstoke	UTI	Southern Interior	Columbia	54
637	Stella-Jones Inc.	Prince George	UTI	Northern Interior	Prince George	17