

QUÉBEC'S FOREST RESOURCES AND INDUSTRY

A STATISTICAL REPORT 2007 EDITION



Québec

SUMMARY

QUÉBEC'S FOREST RESOURCES AND INDUSTRY

A STATISTICAL REPORT
2007 EDITION

DESIGN, RESEARCH AND TEXT

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Note:

The preparation of this report required the collaboration of all the administrative units within the Secteur des forêts and Forêt Québec. Unless otherwise indicated, the data are provided by the administrative unit of the ministère des Ressources naturelles et de la Faune with responsibility for the sector in question.

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FOREWORD

In keeping with its mission, the ministère des Ressources naturelles et de la Faune (MRNF) continues to make different tools available to anyone interested in the forests, including this document. As in past years, the 2007 edition of **Québec's Forest Resources and Industry** contains a **succinct statistical report** on Québec's forest sector. However, this year we have made some minor changes to the content. For example, we added a new chapter dealing with the use of non-timber matter, i.e. non-timber forest products (NFTPs), and the survey chapter data are drawn exclusively from the third ten-year forest survey (except for the Magdalen Islands data, which are drawn from the second survey).

The full version of **Québec's Forest Resources and Industry** is available in French only, in PDF and Excel formats on the MRNF's website at : <http://www.mrnfp.gouv.qc.ca/forets/connaissances/connaissances-statistiques.jsp>¹. To facilitate research, French-language and English-language summaries, containing the highlights of each chapter along with the principal maps and tables, are also available on the same website.

We hope you find this year's report as useful as past editions and, as always, we welcome your comments.

1. The full version is updated regularly, and we invite you to obtain the most recent data by consulting it on a regular basis.

NOTE TO READERS

The full version of this document (in French only) can be obtained from the website of the Ministère des Ressources naturelles et de la Faune (<http://www.mrnf.gouv.qc.ca/>) by clicking on the **Forêts, Connaissances forestières et environnementales** and **Les Statistiques forestières** tabs, and then selecting complète or résumée. In the Excel version, the tabs appearing at the bottom of the screen provide access to the various sheets.

Readers wishing to use the data contained in this publication should bear in mind the changes made to some of the tables illustrating statistical trends. An attempt to compare this year's tables with those of previous years may be difficult and lead only to confusion. In the Excel version, some data may appear to be cut off, due to on-screen column widths. To remedy this problem, use the PDF version or simply print the file instead of consulting it on screen.

For further information, please contact the author, Blaise Parent, at (418) 627-8644, extension 4112.

IMPORTANT NOTES

Each table, chart and map has been assigned a reference code, which is indicated in the upper right-hand corner. The first two figures of the code correspond to the chapter, the next two to the section and the last two to illustration. For example, code **02.01.03** designates the third illustration of the first section of chapter 2.

The letter (g) added in parentheses at the end of the code 05.01.10 (g) signifies that this page contains the source data for the graphic 05.01.10. As well, the number (2) added in parentheses at the end of the code 12.01.01 (2) indicates that this page contains the data from the preceding table, 12.01.01, including data on the furniture and/or printing industry.

Symbols Used in the Tables and Diagrams

.. : data not available
... : data not shown
p : provisional data
r : revised data
e : estimated data
x : confidential data
- : none or zero
— : small cap data

Symbols used

TSFMA^s : Timber supply and forest management agreements
FMA^s : Forest management agreements
FMC^s : Forest management contracts
cm : centimetre
cm³ : cubic centimetre
SIC : Standard Industrial Classification for companies and industries (1980 structure) Statistics Canada
dm³ : cubic decimetre
€ : euro
G : billion
ha : hectare
hl : hectolitre
kg : kilogram
km : kilometre
km² : square kilometre
L : litre
lb : pound
m : metre
m² : square metre
m³ : cubic metre
M : million
no. : number
n.e.s. : not elsewhere specified
sq.ft. : square foot
bd ft: board foot
" : inch
NAICS : North American Industry Classification System (Statistics Canada's new 2000 structure)
FSPL : fir, spruce, jack pine, larch
t : ton
mt : metric ton
BDMT: bone-dry metric ton
ngrv : nominal gross raw volume
% : percent
\$: dollar
£ : pound sterling
¥ : yen

Conversion factors

1 cord of wood = 85 solid cubic feet = 2.41 cubic metres
1 cunit = 100 solid cubic feet = 2.831 cubic metres
1 board foot (bd ft) = a piece of wood 1 inch thick by 1 foot wide by 1 foot long
1 000 board feet (bd ft) = 2.36 cubic metres (net value)
1 cubic metre = 423.7 bd ft = 35.3 cubic feet = 0.353 cunits = 1.5 stacked cubic metres
1 metric ton (long ton) = 1 000 kilograms = 2 205 pounds
1 imperial ton (short ton) = 2 000 pounds
1 square kilometre = 100 hectares = 0.386 square miles
1 hectare = 2.47 acres

GLOSSARY OF THE MAIN ECONOMIC TERMS USED IN THE TEXT

Establishment

The smallest operating unit, generally a mill or factory, able to provide data on its inputs, outputs and activities for calculation of added value.

Total jobs

Positions related to production or to non-manufacturing activities in an establishment (cafeteria, head office, administration or sales). Also includes jobs generated by new construction, repairs or major alterations. Ownership and active partnership positions, which are not considered as salaried positions, are not included in the total jobs figure.

Total salaries and wages

Amounts allocated for compensation of all the salaried and non-salaried employees of an organization.

Value of shipments and other income

Value of shipments of company-specific products plus income obtained from non-manufacturing activities such as the sale of goods purchased and resold without processing, the book value of construction and capital work carried out by the establishment's personnel, for its own use, the cafeteria, etc.

Value added to total activity

Value added in the manufacturing activity, plus added value from non-manufacturing activities. This latter figure is obtained by subtracting from gross non-manufacturing production all purchases of goods for resale without processing (taking into account the net stocks variable for those goods), purchases of materials and supplies used in new construction or the production of machinery and tools for use by the establishment, and office supplies purchased and used by the establishment in a non-manufacturing activity.

Capital Expenditures

Capital expenditures include the cost of acquiring, constructing and installing plant, materials and sustainable tools, whether for replacement or rental.

Maintenance and repairs

Amounts paid to maintain works, materials and tools in good condition. They are not considered to be capital expenditures and are indicated separately.

GLOSSARY OF THE MAIN ECONOMIC TERMS USED IN THE TEXT (cont'd)

Constant dollars

Dollars in a reference year used as a basis for converting dollars from other years, to eliminate the impact of fluctuations in purchasing power. The conversion is made using a price index.

Balance of trade

The difference between the monetary value of exports and imports of merchandise, goods and services. If a country exports more than it imports, its balance of trade is positive. If it imports more than it exports, its balance of trade is negative.

National exports

Products grown, extracted or manufactured in Canada and sold to other countries, including products from foreign sources that are processed in Canada.

Shipment

Shipment of merchandise (goods) to a domestic or foreign destination.

Imports

All merchandise introduced into a country, whether for immediate consumption or storage.

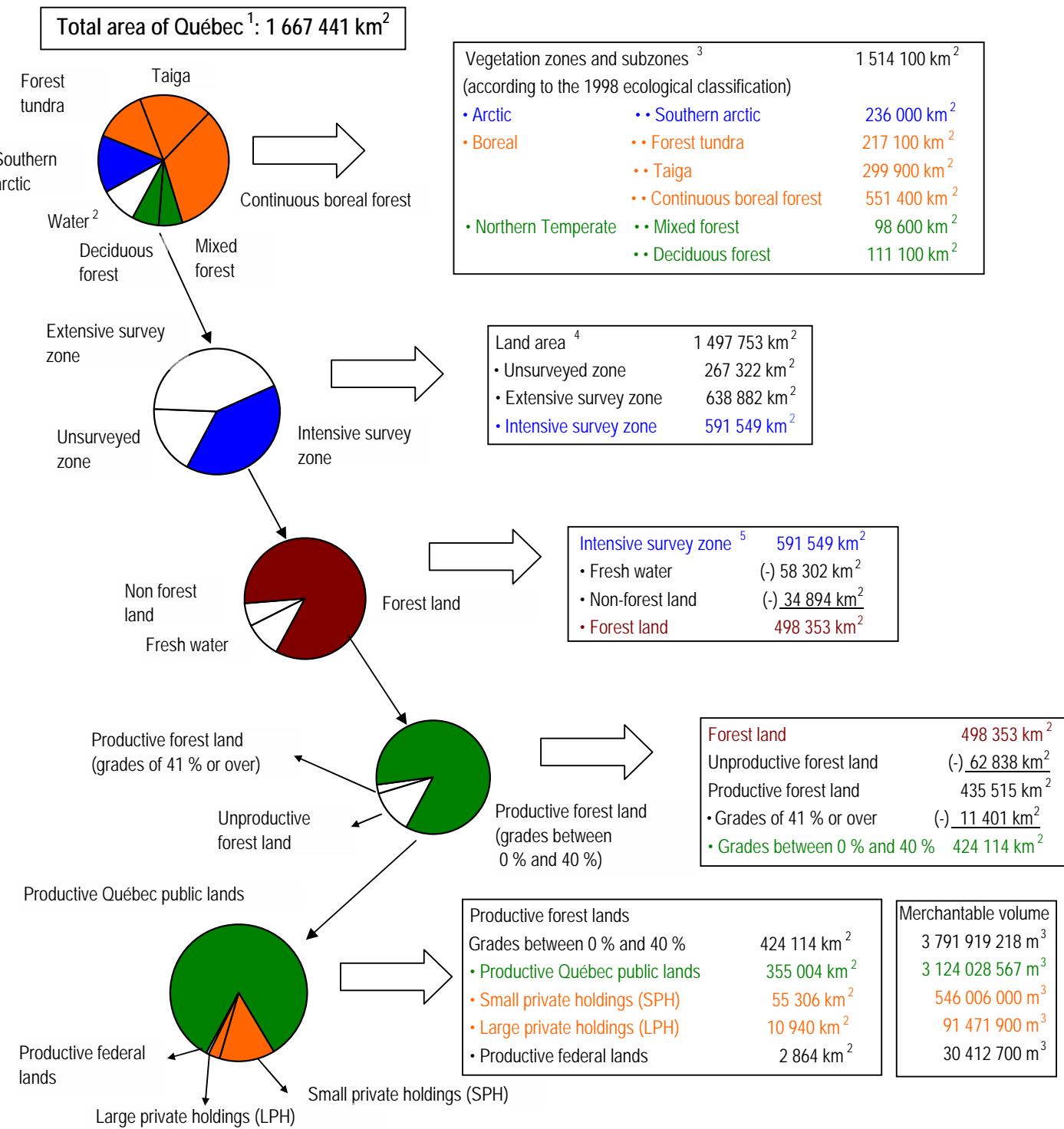
Selling price index

An index showing variations in the general rate of inflation or price variations in a given economic sector, compared with a reference year to which a value of 100 is assigned.

Gross domestic product (GDP)

The value of all final goods and services produced in a given period within the geographical boundaries of a country or territory.

Summary



1. Area obtained from a compilation of Québec border data to a scale 1:20 000, calculated using the Modified Transverse Mercator (MTM) system and the NAD83 geodesic reference system. Excludes Labrador, in accordance with the 1927 (non-definitive) boundary.

2. Includes the waters of the St. Lawrence River downstream of the eastern point of Orleans Island, the Gulf of St. Lawrence up to the 1964 boundary with the Maritime provinces; also includes James Bay, Hudson Bay, Ungava Bay and Hudson Strait (153 313 km²).

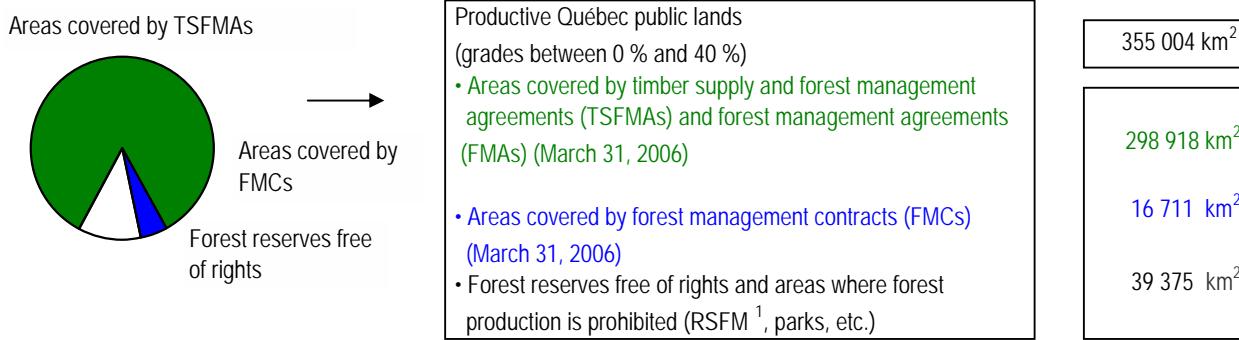
3. The limits of the bioclimatic domains have been revised by the Comité sur la carte des régions écologiques. The committee also established the new ecological land classification system in 1998 (includes inland waters but excludes the waters of the St. Lawrence River downstream of the eastern point of Orleans Island). The figures have been rounded off, possibly creating minor errors in the totals.

4. Updated September 2004 : The original territorial data are drawn from the third ten-year forest survey (except the Magdalen Islands, for which data are drawn from the second forest survey). This area also includes inland waters but excludes the waters of the St. Lawrence River.

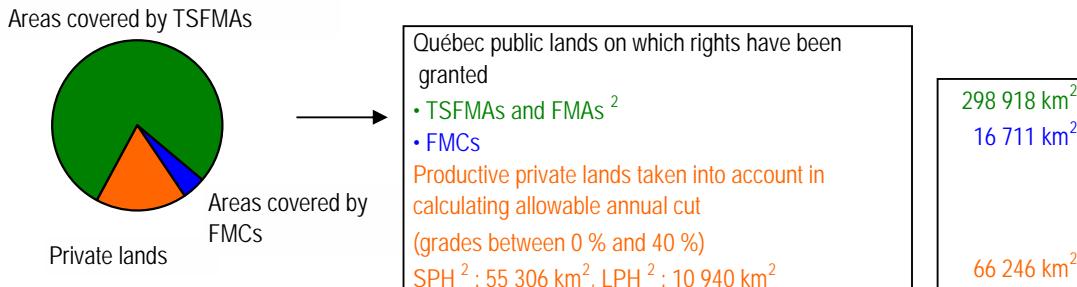
5. Lands whose forests can be developed over 120 years, in keeping with the principle of sustained yield.

Summary (cont'd)

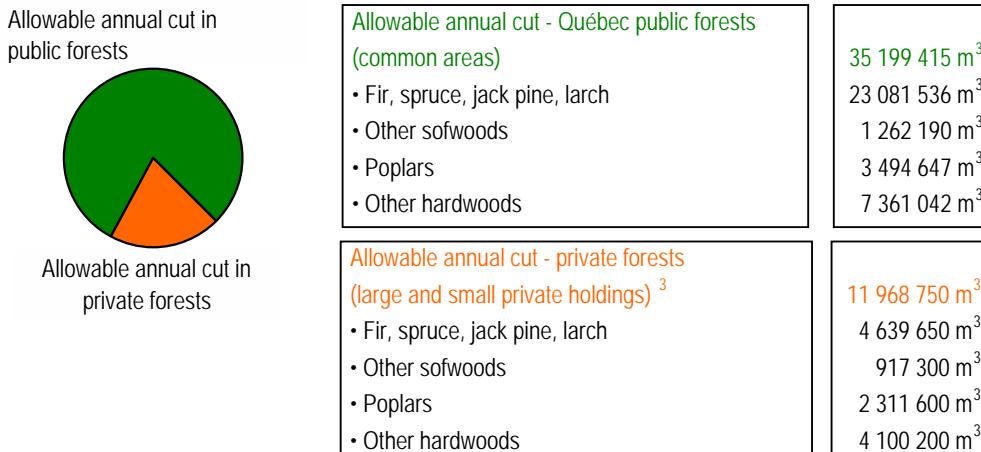
Distribution of productive Québec public lands



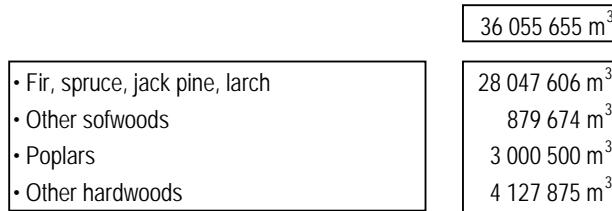
Surface areas taken into account in calculating the allowable annual cut (March 31, 2006)



Allowable annual cut (March 31, 2006)



Volumes allocated by TSFMA and FMA in public forests (March 31, 2006)



1. RSFM : Regulation respecting standards of forest management for forests in the domain of the State.

2. SPH : Small private holdings.

LPH : Large private holdings.

3. Current volumes not included.

Summary (cont'd)

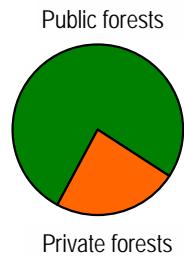
Volumes allocated by FMCs in public forests (March 31, 2006)

<ul style="list-style-type: none"> • Fir, spruce, jack pine, larch • Other softwoods • Poplars • Other hardwoods
--

853 636 m³

544 487 m ³ 19 944 m ³ 203 262 m ³ 85 943 m ³
--

Timber harvested - volume (2005-2006)



Public forests <ul style="list-style-type: none"> • Fir, spruce, jack pine, larch • Other softwood • Poplars • Other hardwoods

38 616 600 m³

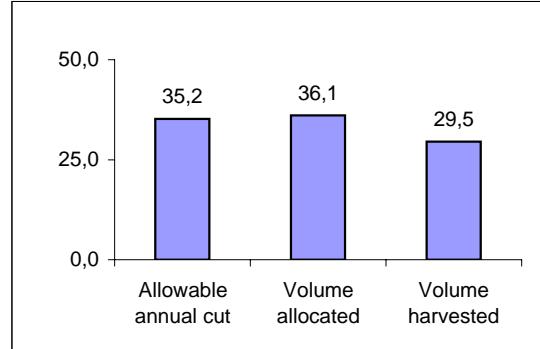
29 537 100 m³ 24 208 000 m ³ 362 600 m ³ 2 347 400 m ³ 2 619 100 m ³
--

Private forests¹ <ul style="list-style-type: none"> • Fir, spruce, jack pine, larch • Other softwood • Poplars • Other hardwood

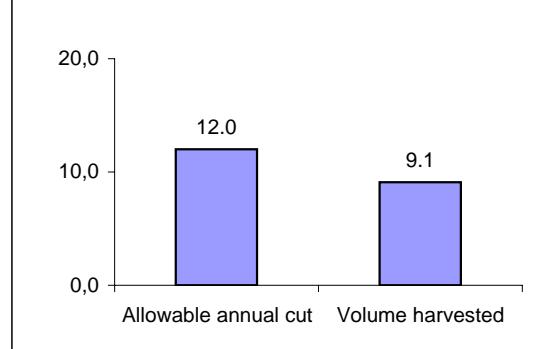
9 079 500 m³ 3 802 800 m ³ 509 700 m ³ 1 676 300 m ³ 3 090 700 m ³
--

1. Estimates.

Public forests (allowable annual cut, volume allocated, volume harvested) (2005-2006)



Private forests (allowable annual cut, volume harvested) (2005-2006)



Summary (cont'd)

Forest protection

	2005	2006
Area affected (ha)	823 401	174 746
Spruce budworm	43 270	50 500
Forest fires	Intensive protection zone	366 671
	Limited forest protection	413 460
		110 522

Silvicultural treatments planned and carried out

	2004-2005 and 2005-2006	2004-2005	2005-2006
	Planned (ha)	Carried out (ha)	Carried out (ha)
Public forests	670 905	466 338r	546 458p
Site preparation	59 021	41 776r	52 183p
Planting and seeding	49 192	52 478r (74 M seedlings)	58 280p (98 M seedlings)
Non-commercial treatments	167 137	102 248r	110 639p
Commercial treatments	395 555	269 836r	325 356p
Private forests	67 430	49 154	49 035p
Site preparation	...	8 173	8 185p
Planting and seeding	12 591	10 082 (22 M seedlings)	9 235p (20 M seedlings)
Non-commercial treatments	7 618	19 043	18 197p
Commercial treatments	47 221	11 856	13 418p

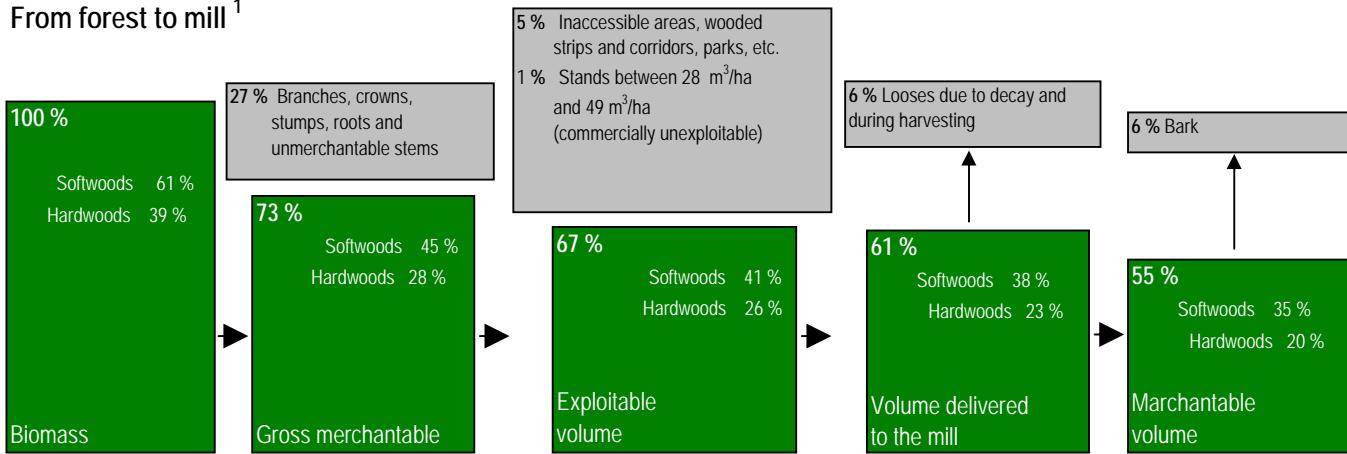
Network of permanent roads (2005-2006e)

Total length : 16 700 km (590 bridges)

Experimental, teaching and research forests (2006)

Total area : 63 000 ha

From forest to mill¹



1 : Updated March 31, 2006.

Timber consumption by primary processing plants

	2004r	2005
Total Consumption (m³)	72 264 123	70 686 470
Consumption by Species (m ³)		
Fir, spruce, jack pine, larch	55 744 463	54 277 929
Other softwoods	2 206 657	2 232 918
Poplars	5 357 288	5 150 110
Other hardwoods	8 955 715	9 025 513
Consumption by Product (m ³)		
Roundwood	44 663 138	43 798 586
Chips	19 039 065	18 918 689
Sawdust, shavings and wood residues	8 561 920	7 969 195
Consumption by Source (m ³)		
Public forests	31 282 929	31 012 636
Private forests	7 281 402	7 267 047
Exchanges between mills	25 967 952	24 081 081
Outside Québec	7 731 840	8 325 706

Summary (cont'd)

The forest sector in Québec's economy (2004)

	Total jobs (no.)	Total salaries and wages (\$, 000s)	Value of shipments and other revenue (\$, 000s)	Value added to total activity ¹ (\$, 000s)	Capital expenditures and repairs (\$, 000s)
Forestry and logging (NAICS 113)	12 747	423 391	2 889 756	1 302 709	154 000
Wood product manufacturing (NAICS 321)	37 473	1 412 299	9 758 118	4 091 534	712 100
Paper manufacturing (NAICS 322)	27 658	1 559 063	10 764 347	4 317 907	784 800
Total (forest sector)	77 878	3 394 753	23 412 221	9 712 150	1 650 900

1. Including purchase of services.

Logging industry (2005)

Number of primary processing plants, including 410 sawmills	499
Number of pulp, paper and paperboard mills, 38 of which are included under primary processing plants	65

Wood processing industry establishments by group

Wood product manufacturing (NAICS 321)	718
Paper manufacturing (NAICS 322)	200
Total	918

Forest product production

	2004	2005
Lumber (m ³ , 000s)	20 526	18 607
Joint sawmill production (BDMT, 000s)	12 470	12 065
Chips	7 449	7 237
Sawdust and shavings	2 120	2 079
Bark	2 901	2 750
Pulp and paper production (BDMT, 000s)	9 798	9 679
Newsprint	3 488	3 421
Paperboard and paper other than newsprint	4 895	4 871
Market pulp	1 415	1 387

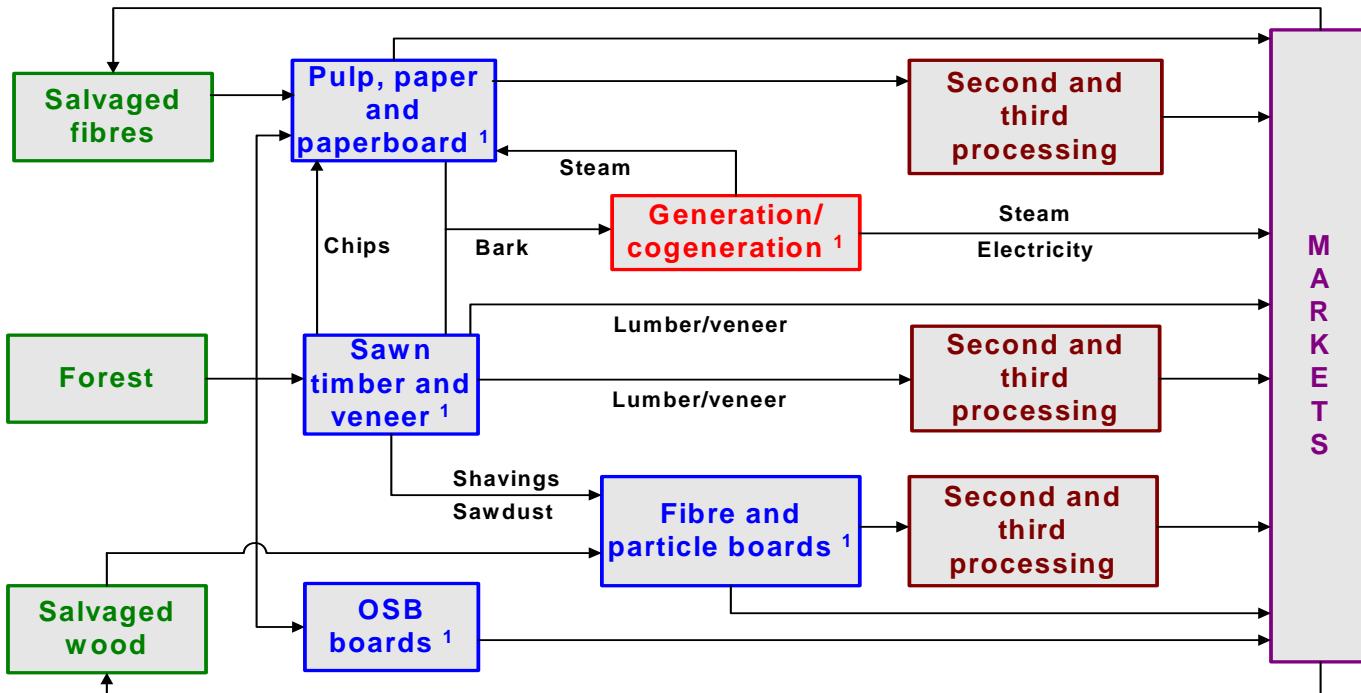
Québec's balance of trade¹ in the forest products sector (\$, million)²

	2004	2005	2006
Wood, charcoal and wooden products	3 693	3 296	2 658
Pulp, paper and paperboard	6 066	6 227	6 318
Total	9 758	9 522	8 977

1. Balance of trade of commercial goods with international destinations.

2. Product designation according to the World Customs Organization's harmonized Commodity Description and Coding System.

Integration of the forest products industry



1. Primary processing.

Summary (cont'd)

The forest sector in Québec's economy (2004) (including furnitures and printing)

	Total jobs (no.)	Total salaries and wages (\$, 000s)	Value of shipments and other revenue (\$, 000s)	Value added to total activity ¹ (\$, 000s)	Capital expenditures and repairs (\$, 000s)
Forestry and logging (NAICS 113)	12 747	423 391	2 889 756	913 018	140 200
Wood product manufacturing (NAICS 321)	37 473	1 412 299	9 758 118	3 304 631	567 200
Furniture and related product manufacturing (NAICS 337)	29 811	974 926	3 846 467	2 157 188	88 600
Paper manufacturing (NAICS 322)	27 658	1 559 063	10 764 347	4 190 229	1 697 400
Printing and related support activities (NAICS 323)	18 438	809 135	3 132 757	1 850 219	151 900
Total (forest sector)	126 127	5 178 814	30 391 445	12 415 285	2 645 300
Overall manufacturing activity in Québec	475 440	20 471 465	142 675 148	64 039 341	7 790 300

1. Including purchase of services.

Logging industry (2005)

Number of primary processing plants, including 410 sawmills	499
Number of pulp, paper and paperboard mills, 38 of which are included under primary processing plants	65

Wood processing industry establishments by group

Wood product manufacturing (NAICS 321)	718
Furniture and related product manufacturing (NAICS 337)	650
Paper manufacturing (NAICS 322)	200
Printing and related support activities (NAICS 323)	447

Forest product production (including furniture and printing)

	2004	2005
Lumber (m ³ , 000s)	20 526	18 607
Joint sawmill production (BDMT, 000s)	12 470	12 065
Chips	7 449	7 237
Sawdust and shavings	2 120	2 079
Bark	2 901	2 750
Pulp and paper production (BDMT, 000s)	9 798	9 679
Newsprint	3 488	3 421
Paperboard and paper other than newsprint	4 895	4 871
Market pulp	1 415	1 387
Furniture and related product production (\$, 000s)	4 068	4 197
Printing and related support activities industry production (\$, 000s)	3 463	3 454

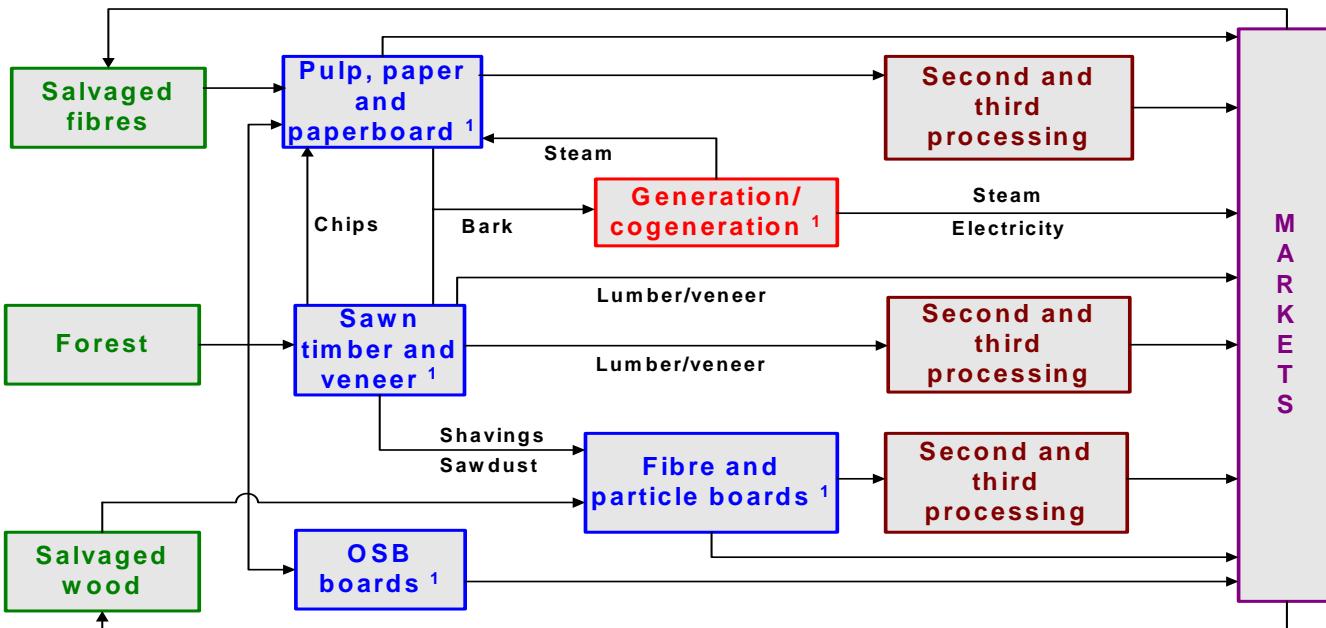
Québec's balance of trade¹ in the forest products sector (including furniture and printing) (\$, million)²

	2004	2005	2006
Wood product, furniture and related product manufacturing	5 120	4 455	3 538
Pulp and paper, paper and paperboard, converted paper product manufacturing and printing and related support activities mills	6 534	6 665	6 659
Total (forest products sector)	11 654	11 120	10 197

1. Balance of trade of commercial goods with international destinations.

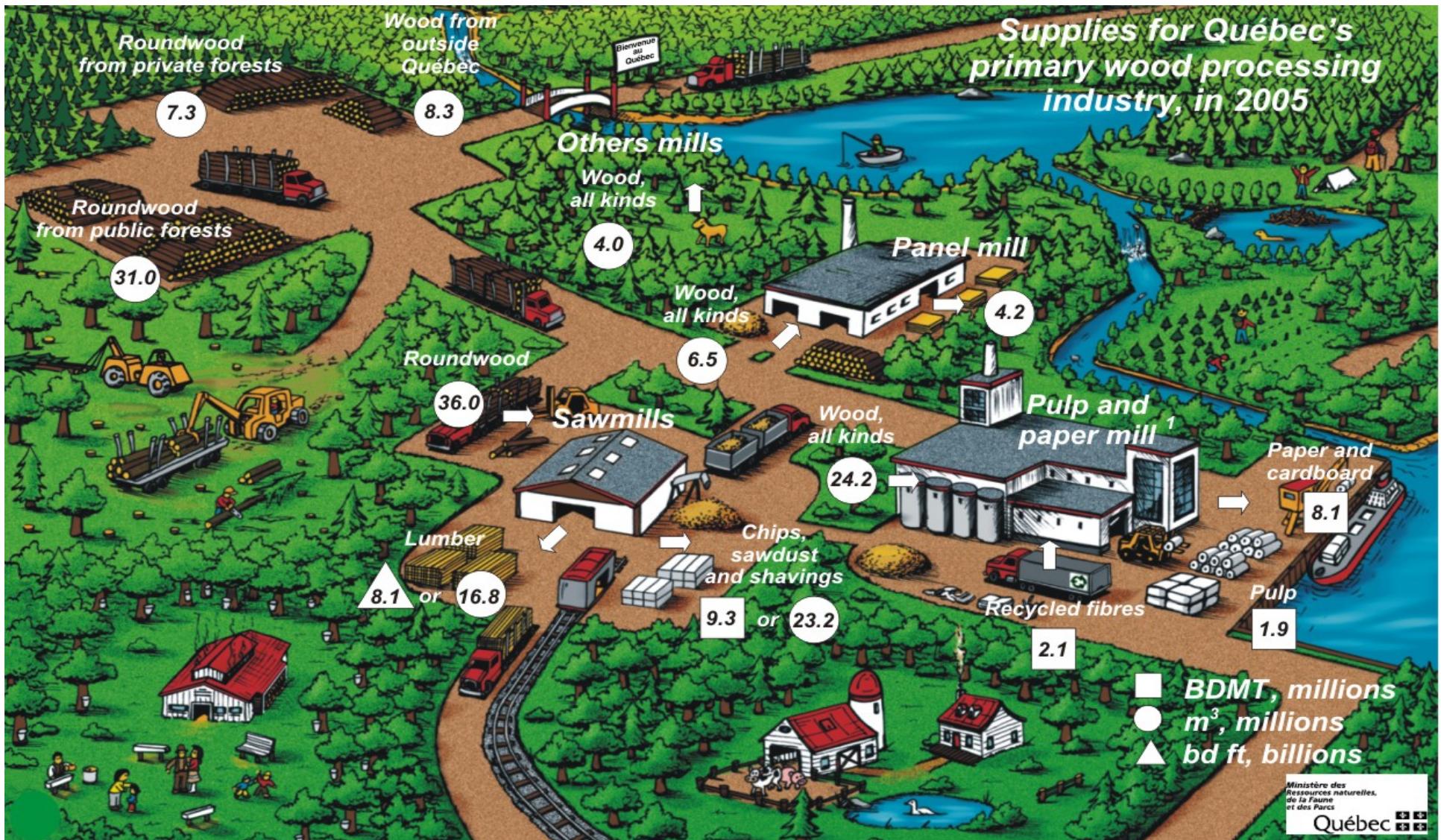
2. According to the North American Industry Classification System (NAICS).

Integration of the forest products industry



1. Primary processing.

Supplies for Québec's primary wood processing industry in 2005



1. Including data from the 2005 annual survey.

Supplies for Québec's primary wood processing industry in 2005

Supplies by source (m³, million)	
Public forests	31,0
Private forests	7,3
Outside Québec	8,3
Total	46,6
Mills consumption (m³, million)	
Panel	6,5
Sawmills	36,0
Pulp and paper	24,2
Other mills	4,0
Total	70,7
Recycled fibres consumption (BDMT, million)¹	
Pulp and paper	2,1
Sawmills Production	
Chips, sawdust and shavings	9,6 (BDMT, million) 23,2 (m ³ , million)
Lumber	8,1 (bd ft, billion) 16,8 (m ³ , million)
Pulp and paper mill production (BDMT, million)¹	
Paper and paperboard	8,1
Market pulp	1,9
Panel mills production (m³, million)	
Panel	4,2

1. Including data from the 2006 annual survey.

QUÉBEC'S FOREST RESOURCES AND INDUSTRY

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1 Geographical distribution of Québec's forests

Highlights

01.00.01

Total area of Québec

	(km ²)
Total area	1 667 441r
Land area ¹	1 497 753
Vegetation zones (according to the 1998 ecological classification) ² :	
• Arctic	236 000r
• Boréal	1 068 400r
• Northern temperate	209 700r



Types of ownership

	(km ²)
Public lands (Québec)	1 372 021
Private lands	116 398
Federal lands	9 334

1. Updated in September 2004 : The original territorial data are drawn from the third ten-year forest survey (except for the Magdalen Islands data, which are still drawn from the second survey)

This area also includes inland waters but excludes the waters of the St. Lawrence River

2. The bioclimatic domain boundaries have been reviewed by the Comité sur la

carte des régions écologiques, which also established the new ecological classification system in 1998 (including inland water but excluding the waters of the St. Lawrence River downstream of the eastern point of the Orleans island)

Public land use planning

	(km ²)
Public lands ¹	1 373 490
• Forest production prohibited	65 552
• Forest production allowed	86 830
• Forest production has priority :	367 856
- Forest and leisure area	6 650
- Forest production area	361 206
• Other resource production ²	853 252

1. The areas were established from data gathered in 1997, and differ slightly from the areas measured during forest surveys. In particular, they have not been adjusted to reflect the latest modifications, including those resulting from sales of land, for example. Harmonization should be completed shortly

2. Area with mining sites, energy development sites, etc., north of the common area boundary.

Administration of public forests, March 31, 2006

	(no.)
Administrative régions	17
Common areas	114
Timber supply and forest management agreements (TSFMA)	229
Forest management agreements (FMAs)	5
Forest management contracts (FMCs)	89

Survey zones

	(km ²)
Intensive survey zone	591 549
Extensive survey zone	638 882
Unsurveyed zone	267 322

Management of private forests, March 31, 2006

Development agencies (no.)	17
• Productive area (ha, 000s)	6 625
• Number of owners	129 850
• Number of owners in activity	74 015
Syndicates of wood marketing boards (no.)	15

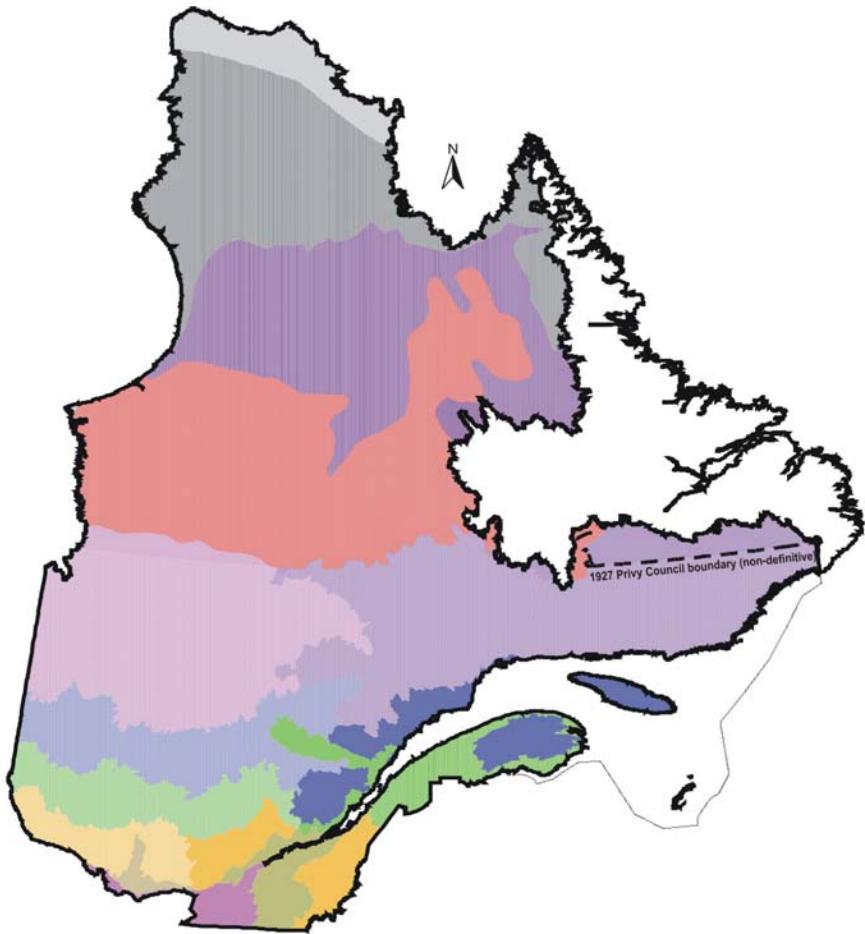
Forest cooperatives, 2003-2004

Forest cooperatives (no.)	54
Members (no.)	3 010
Workers (4 weeks or over)	4 095
Silvicultural work (ha, 000s)	82 738
Harvest (m ³ , 000s)	5 537
Turnover (\$, millions)	320

1 Geographical distribution of Québec's forest

Vegetation zones and subzones

01.01.01



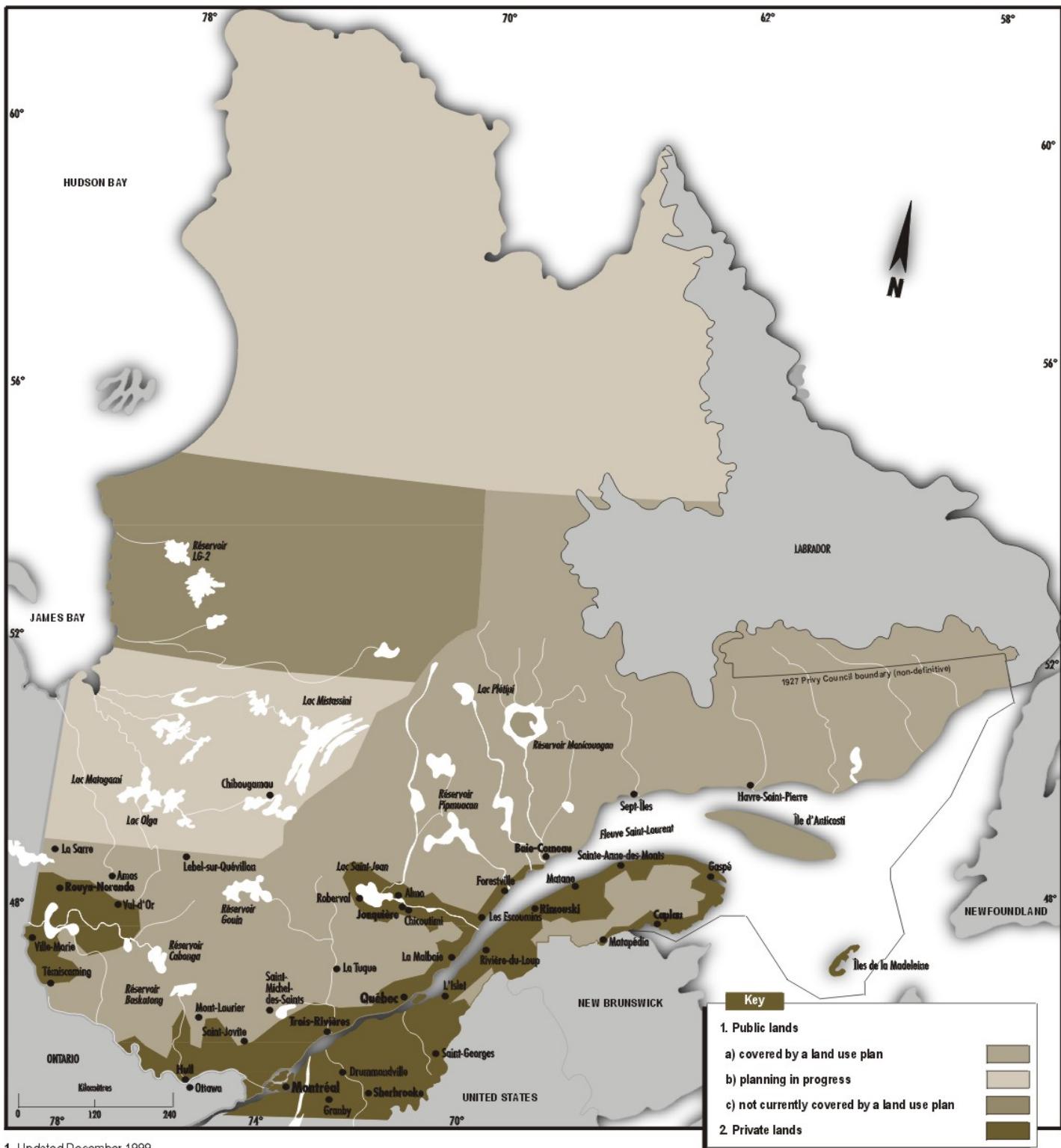
Source : Direction des inventaires forestiers, division écologie - productivité.

1 Geographical distribution of Québec's forests

Public land use planning

Areas subject to the land use planning process^{1,2}

01.03.01



1. Updated December 1999.

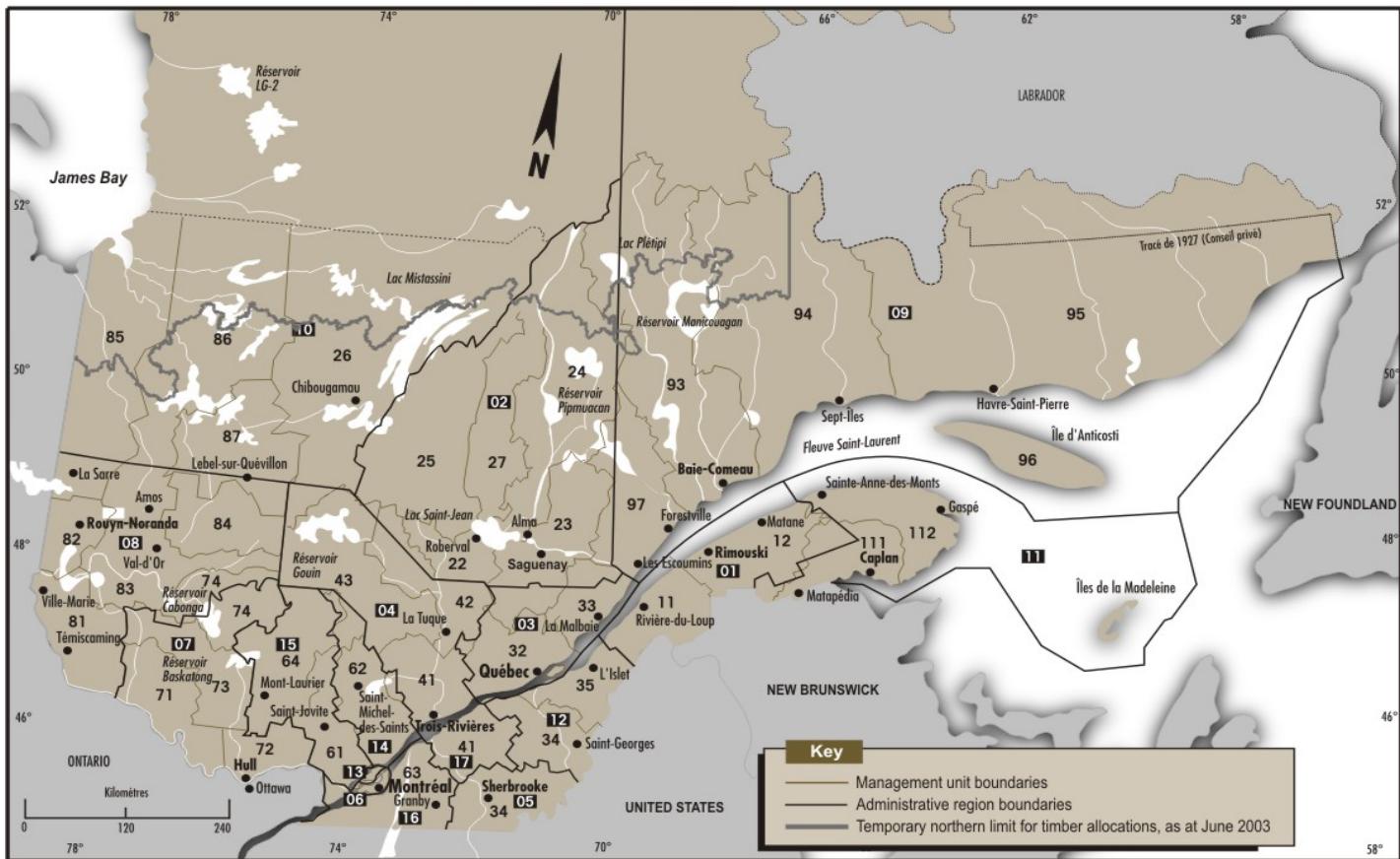
2. In 2005, the government began the development of a new public land use plan for the regions of Saguenay-Lac-St-Jean, Capitale-Nationale, Mauricie, Outaouais, Abitibi-Témiscamingue, Côte-Nord, Gaspésie-Îles-de-la-Madelaine and Laurentides.

Source : Direction générale de la gestion du territoire public.

1 Geographical distribution of Québec's forests

Administrative divisions in Québec's public forests¹

01.05.02



Key

ADMINISTRATIVE REGIONS

- 01 Bas-Saint-Laurent
- 02 Saguenay—Lac-Saint-Jean
- 03 Capitale-Nationale
- 04 Mauricie
- 05 Estrie
- 06 Montréal
- 07 Outaouais
- 08 Abitibi-Témiscamingue

MANAGEMENT UNITS

- 11-12 p.²-111 p.-112 p.
- 22-23 p.-24 p.-25-27-33 p.-
- 42 p.-93 p.-97 p.
- 23 p.-32-33 p.
- 26 p.-41 p.-42 p.-43 p.
- 34 p.
- 63 p.
- 71-72-73-74 p.
- 74 p.-81-82-83-84-
- 85 p.-86 p.-87 p.

ADMINISTRATIVE REGIONS

- 09 Côte-Nord
- 10 Nord-du-Québec
- 11 Gaspésie—Îles-de-la-Madeleine
- 12 Chaudière-Appalaches
- 13 Laval
- 14 Lanaudière
- 15 Laurentides
- 16 Montérégie
- 17 Centre-du-Québec

MANAGEMENT UNITS

- 24 p.-93 p.-94-95-96-97 p.
- 26 p.-85 p.-86 p.-87 p.
- 12 p.-111 p.-112 p.
- 34 p.-35
- 63 p.
- 41 p.-43 p.-62 p.-64 p.
- 61-62 p.-64 p.
- 63 p.
- 41 p.

1 Updated January 2005

2 p. : part of.

Note : This document provides figures for each of the Québec government's 17 administrative regions. However, for internal management purposes, the ministère des Ressources naturelles et de la Faune considers only 9 administrative regions, subdivided into 37 management units.

1 Geographical distribution of Québec's forest

Types of ownership and survey zones

01.06.02

Breakdown of Québec¹ by survey zone and type of ownership²

	Administrative regions															Total		
	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	
(km ²)																		
UNSURVEYED ZONE																		
Québec public lands											260 771						260 771	
Private lands (Inuit)											6 551						6 551	
Federal lands																		
Total area											267 322						267 322	
EXTENSIVE SURVEY ZONE³																		
Québec public lands	9 094										153 908	472 171						635 173
Forests in the domain of the State ⁴	9 094										153 908	472 171						635 173
Other tenures ⁵																		
Private lands											30	2 116						2 146
Large holdings ⁶												2 116						2 116
Small holdings											30							30
Federal lands											38	1 525						1 563
Total area	9 094										153 976	475 812						638 882
INTENSIVE SURVEY ZONE³																		
Québec public lands	11 574	90 658	12 472	31 388	756	93	25 669	57 393	113 286	89 976	16 190	1 603	9 109	15 228	588	95	476 077	
Forests in the domain of the State	11 259	89 883	11 141	31 313	544	93	25 358	55 075	111 515	89 822	15 384	1 474	8 276	14 398	555	81	466 171	
Other tenures	315	775	1 331	75	212		311	2 318	1 771	153	806	129	833	830	33	14	9 906	
Private lands	11 105	6 619	6 716	7 701	9 695	514	7 904	7 188	1 928	1 089	3 995	13 649	267	4 384	6 818	11 154	6 974	107 701
Large holdings	1 126	882	2 323	3 726	1 310		489	142	953	862	125	685	2	33	33	60		12 752
Small holdings	9 979	5 737	4 393	3 975	8 385	514	7 415	7 046	976	226	3 870	12 964	267	4 382	6 786	11 121	6 914	94 948
Federal lands	2	26	610	818	5	15	545	26	3 099	1 258	289	226	8	478	103	263		7 771
Total area	22 681	97 303	19 798	39 908	10 456	622	34 118	64 607	118 314	92 322	20 474	15 478	267	13 501	22 525	11 845	7 332	591 549
Total (land)	22 681	106 397	19 798	39 908	10 456	622	34 118	64 607	272 290	835 456	20 474	15 478	267	13 501	22 525	11 845	7 332	1 497 753

1. Not including areas covered by the waters of the St. Lawrence River and Gulf, James Bay, Hudson Bay, Ungava Bay and the Hudson Strait

2. Updated September 2004.

3. The summary of surveyed forests in Chapter 2 covers the intensive survey zone only, since forest ecosystems in the extensive survey zone are so fragile that timber harvesting is prohibited.

4. Land supporting forest stands.

5. Forest stations, experimental and research forests, etc.

6. More than 800 hectares in a single block.

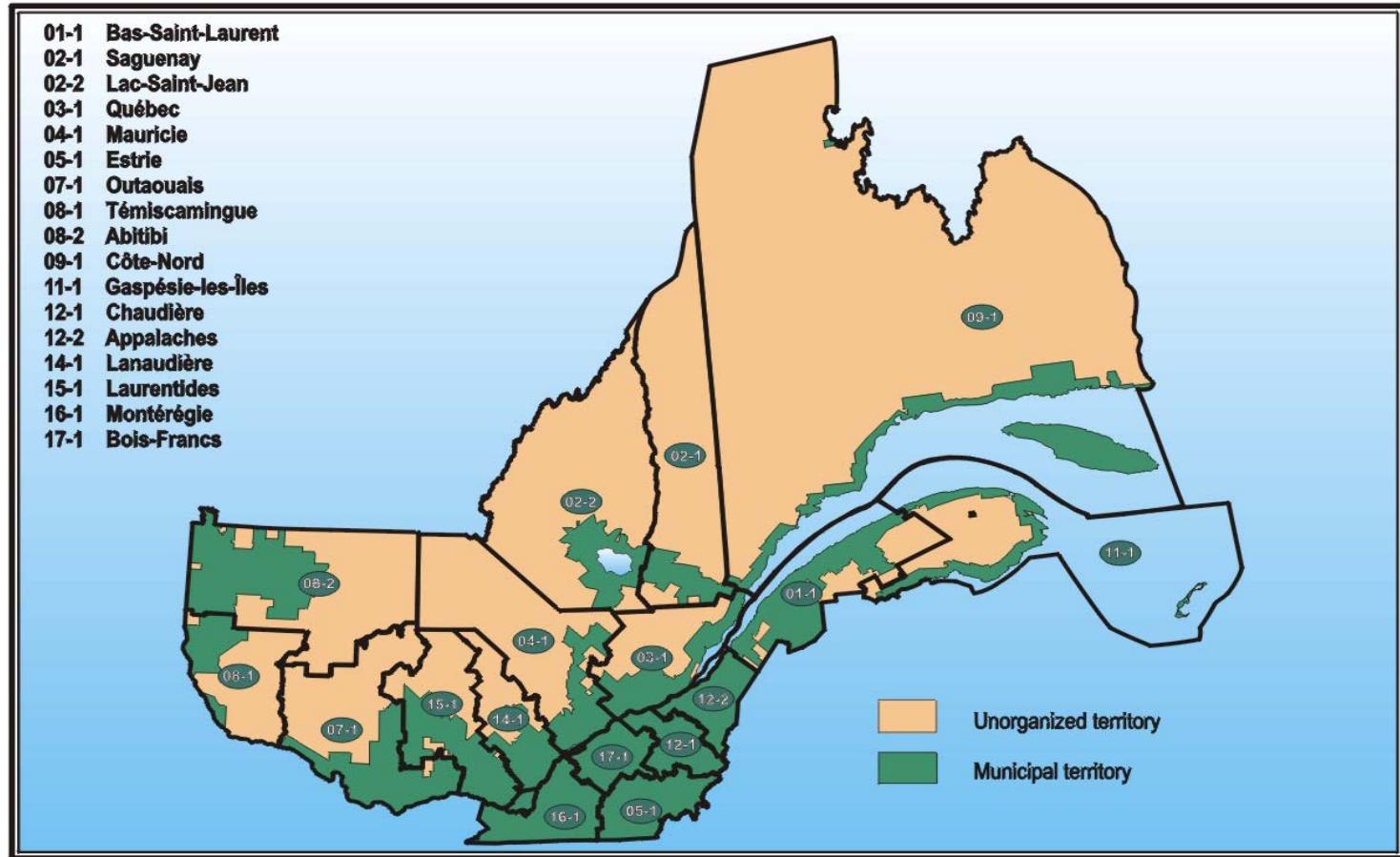
N.B. : Figures have been rounded off, which may have caused negligible errors in the totals.

1 Geographical distribution of Québec's forests

Private forests

Regional agencies for private forest development ¹

01.07.01



1. Updated April 2002.

Regional agencies

No.	Administrative regions	Name of agency	Number of owners ¹	Active owners (%) ²
01-1	Bas-Saint-Laurent	Agence régionale de mise en valeur des forêts privées du Bas-Saint-Laurent	10 600	61
02-1	Saguenay	Agence régionale de mise en valeur des forêts privées du Saguenay	2 400	40
02-2	Lac-Saint-Jean	Agence régionale de mise en valeur des forêts privées du Lac-Saint-Jean	3 600	40
03-1	Québec	Agence des forêts privées de Québec 03 (AFPQ)	6 500	85
04-1	Mauricie	Agence régionale de mise en valeur des forêts privées mauriciennes	6 600	52
05-1	Estrie	Agence régionale de mise en valeur des forêts privées de l'Estrie (AMFE)	9 200	65
07-1	Outaouais	Agence régionale de mise en valeur des forêts privées outaouaises	10 900	61
08-1	Témiscamingue	Agence régionale de mise en valeur des forêts privées du Témiscamingue (ARMVFPT)	1 900	20
08-2	Abitibi	Agence régionale de mise en valeur des forêts privées de l'Abitibi	6 300	25
09-1	Côte-Nord	Agence régionale de mise en valeur des forêts privées de la Côte-Nord	850	62
11-1	Gaspésie-les-Îles	Agence régionale de mise en valeur des forêts privées de la Gaspésie-les-Îles (AFOGIM)	5 000	40
12-1	Chaudière	Agence régionale de mise en valeur des forêts privées de la Chaudière	11 500	81
12-2	Appalaches	Agence régionale de mise en valeur des forêts privées des Appalaches	12 800	79
14-1	Lanaudière	Agence régionale de mise en valeur des forêts privées de Lanaudière	8 300	54
15-1	Laurentides	Agence régionale de mise en valeur des forêts privées des Laurentides	13 400	12
16-1	Montérégie	Agence forestière de la Montérégie	10 500	66
17-1	Bois-Francs	Agence forestière des Bois-Francs (AFBF)	9 500	72
Total			129 850	57

1. Number of woodlot owners (4 ha and over) per development agency.

2. Percentage of active owners over a five-year period.

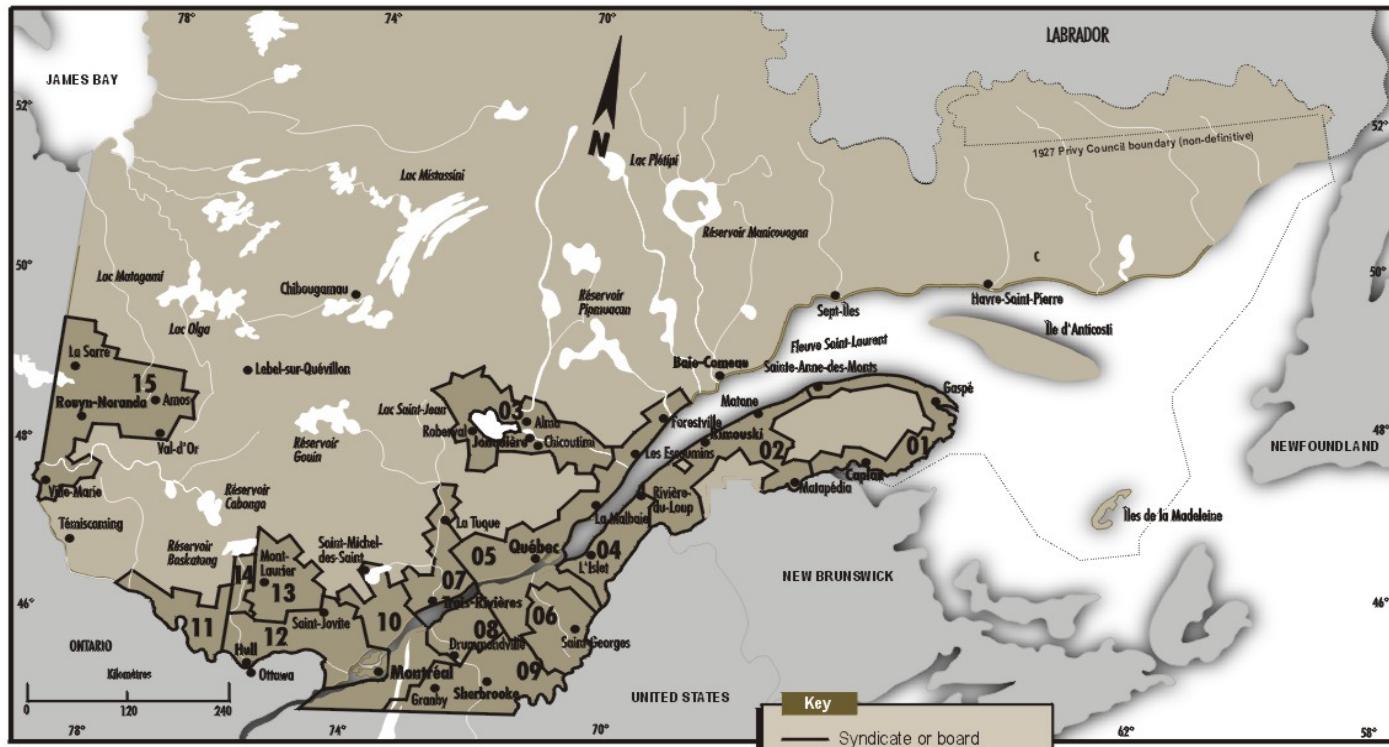
Source : Private Forest Protection and Development Plan (April 2002).

1 Geographical distribution of Québec's forests

Private forests (cont'd)

Areas covered by syndicates and wood marketing boards¹

01.07.04



1. Updated April 2001.

Syndicates or boards

- 01 - Syndicat des producteurs de bois de la Gaspésie
- 02 - Syndicat des producteurs de bois du Bas-Saint-Laurent
- 03 - Syndicat des producteurs de bois du Saguenay—Lac-Saint-Jean
- 04 - Syndicat des producteurs de bois de la Côte-du-Sud
- 05 - Syndicat des producteurs de bois de la région de Québec
- 06 - Syndicat des producteurs de bois de la Beauce
- 07 - Syndicat des producteurs de bois de la Mauricie
- 08 - Syndicat des producteurs de bois du Centre-du-Québec
- 09 - Syndicat des producteurs de bois de l'Estrie
- 10 - Syndicat des producteurs de bois de la région de Montréal
- 11 - Office des producteurs de bois du Pontiac
- 12 - Syndicat des producteurs de bois Outaouais-Laurentides
- 13 - Syndicat des producteurs de bois du comté de Labelle
- 14 - Office des producteurs de bois de la Gatineau
- 15 - Syndicat des producteurs de bois d'Abitibi-Témiscamingue

2 Intensive survey zone

Highlights

02.00.01

Land survey	Area (km ²)	Gross merchantable Volume (m ³ , 000s)
Intensive survey zone ¹	591 549	
Bodies of water	-58 302	
Non-forest land	-34 894	
Forest land	498 353	
Unproductive forest land	-62 838	
Productive forest land (grades of 41 % and over)	-11 401	
Productive forest land (grades between 0 % and 40 %)	424 114	3 791 919
• Québec public lands	355 004	3 124 029
• Small private holdings	55 306	546 006
• Large private holdings	10 940	91 472
• Federal lands	2 864	30 413

1. Area in which the ministère des Ressources naturelles et de la Faune conducts detailed forest surveys

2 Intensive survey zone

Area of productive forests (grades between 0 % and 40 %)¹ and available gross merchantable volume By age, forest type and administrative region

02.03.01

	Administrative regions								Subtotal ²	
	01		02		03		04			
	(km ²)	(m ³ ,000s)	(km ²)	(m ³ ,000s)	(km ²)	(m ³ ,000s)	(km ²)	(m ³ ,000s)	(km ²)	(m ³ ,000s)
Total area²	18 357	163 407	74 990	560 943	15 657	121 645	31 343	331 490	140 347	1 177 485
By age										
0-10 years	4 826	2 092	16 943	2 010	2 667	1 218	5 684	321	30 120	5 641
30 years	1 788	12 900	8 046	28 970	3 104	12 820	2 862	17 288	15 800	71 979
50 years	6 770	81 711	10 495	98 380	5 093	51 862	7 863	88 950	30 221	320 903
70 years	3 299	44 337	12 121	137 733	2 216	24 258	7 876	127 346	25 512	333 673
90 years	1 422	19 231	9 207	100 506	2 328	29 744	5 478	78 484	18 436	227 966
120 years	252	3 135	18 178	193 344	249	1 743	1 580	19 102	20 259	217 323
By forest type										
Softwood	6 716	63 077	45 144	395 525	5 535	38 191	10 243	109 217	67 638	606 009
Mixedwood	6 249	58 749	15 138	112 684	5 883	48 558	12 931	147 688	40 201	367 679
Hardwood	3 975	41 581	5 601	52 735	3 243	34 897	6 092	74 585	18 912	203 798
Regenerating	1 418		9 107		996		2 077			13 597
Québec public lands²	10 593	98 401	70 870	535 412	10 670	76 530	25 531	279 466	117 664	989 809
By age										
0-10 years	2 773	70	15 678	579	1 787	38	4 351	74	24 590	762
30 years	847	5 461	6 990	22 654	2 212	8 006	2 205	12 376	12 254	48 498
50 years	2 949	38 821	8 992	83 516	3 044	28 950	5 632	63 713	20 617	215 001
70 years	2 598	35 294	11 881	135 362	1 698	18 059	7 369	120 440	23 547	309 155
90 years	1 207	16 054	9 161	100 053	1 682	19 768	4 631	66 563	16 681	202 438
120 years	219	2 700	18 167	193 247	246	1 709	1 343	16 299	19 975	213 955
By forest type										
Softwood	4 748	46 952	44 226	390 017	4 672	31 634	8 598	96 456	62 245	565 059
Mixedwood	3 263	31 650	13 529	101 053	3 660	28 261	10 848	126 973	31 300	287 937
Hardwood	1 768	19 799	4 532	44 342	1 656	16 635	4 451	56 037	12 407	136 812
Regenerating	814		8 583		682		1 634			11 713
Small private holdings²	6 707	56 117	3 335	21 292	2 772	25 729	2 274	24 516	15 088	127 655
By age										
0-10 years	1 775	2 022	985	1 375	546	1 136	430	206	3 736	4 739
30 years	747	6 093	841	5 312	477	2 969	362	3 305	2 426	17 679
50 years	3 559	39 838	1 335	13 088	1 343	15 445	994	13 215	7 230	81 587
70 years	484	6 031	169	1 493	131	1 600	214	3 158	999	12 282
90 years	139	2 065	6	23	275	4 579	273	4 620	693	11 287
120 years	3	69					1	12	4	81
By forest type										
Softwood	1 385	9 450	591	3 558	436	2 988	314	2 449	2 726	18 445
Mixedwood	2 742	25 565	1 389	10 359	1 194	11 163	879	9 511	6 204	56 599
Hardwood	2 069	21 103	968	7 375	981	11 578	979	12 556	4 997	52 612
Regenerating	510		387		161		102			1 161
Large private holdings²	1 056	8 868	774	4 136	2 022	17 287	3 033	20 324	6 885	50 615
By age										
0-10 years	278		278	55	308	43	891	38	1 754	136
30 years	194	1 346	213	975	404	1 795	292	1 583	1 102	5 699
50 years	262	3 046	163	1 725	633	6 557	1 195	11 525	2 253	22 852
70 years	215	2 998	69	855	345	4 112	179	2 130	808	10 095
90 years	76	1 112	40	430	330	4 746	337	3 837	783	10 125
120 years	30	366	11	97	2	34	141	1 210	184	1 706
By forest type										
Softwood	583	6 673	327	1 947	401	3 376	1 269	9 548	2 580	21 544
Mixedwood	243	1 529	216	1 235	956	8 208	914	6 779	2 329	17 751
Hardwood	137	665	95	955	528	5 703	516	3 997	1 276	11 320
Regenerating	93		135		137		335			700
Federal lands²	2	21	10	103	192	2 099	505	7 184	709	9 407
By age										
0-10 years	0		2	1	26		13	2	40	3
30 years	0		3	29	11	51	3	23	17	102
50 years	0	7	4	51	73	910	42	496	121	1 463
70 years	1	14	2	22	41	487	114	1 617	157	2 141
90 years		0			41	652	237	3 464	278	4 116
120 years					0	0	95	1 581	96	1 581
By forest type										
Softwood	0	1	0	3	25	193	62	763	87	961
Mixedwood	1	6	3	36	73	925	291	4 425	368	5 392
Hardwood	1	14	6	63	79	981	146	1 996	231	3 054
Regenerating	0		1		16		6			23

1. Updated September 2004.

2. The figures have been rounded off, which may have caused negligible errors.

2 Intensive survey zone

Area of productive forests (grades between 0 % and 40 %)¹ and available gross merchantable volume (cont'd)

02.03.01

By age, forest type and administrative region (cont'd)

	Administrative regions								Subtotal ²	
	05 (km ²)		06 (km ²)		07 (km ²)		08 (km ²)		(m ³ , 000s)	
Total area²	7 668	87 691	41	319	27 239	365 699	48 594	447 449	83 543	901 157
By age	0-10 years	1 620	212	20	3	2 570	6 426	8 490	2 128	12 700 8 769
	30 years	1 328	12 604	7	61	1 630	13 782	5 792	26 012	8 757 52 459
	50 years	3 603	55 106	11	190	7 953	119 826	9 665	98 437	21 232 273 558
	70 years	329	5 061			4 990	69 120	11 140	145 627	16 460 219 807
	90 years	787	14 701	3	65	9 727	152 527	10 242	138 637	20 758 305 930
	120 years	1	8			369	4 018	3 265	36 609	3 635 40 634
By forest type	Softwood	1 269	13 214	0	3	3 474	37 245	17 687	146 247	22 431 196 709
	Mixedwood	2 818	31 999	3	24	10 429	143 927	17 092	178 043	30 342 353 993
	Hardwood	2 979	42 478	22	292	12 370	184 527	10 942	123 160	26 313 350 456
	Regenerating	601		16		966		2 874		4 457
Québec public lands²		679	9 602			21 551	286 729	44 910	422 327	67 140 718 657
By age	0-10 years	70	5			1 875	5 184	7 395	1 916	9 341 7 105
	30 years	58	484			1 326	10 382	5 197	22 057	6 581 32 922
	50 years	294	4 951			4 778	69 612	8 153	82 573	13 226 157 136
	70 years	108	1 621			4 259	57 473	10 766	141 269	15 132 200 363
	90 years	149	2 535			8 947	140 126	10 201	138 258	19 297 280 919
	120 years	1	7			366	3 952	3 197	36 254	3 564 40 213
By forest type	Softwood	108	1 012			2 992	29 833	17 128	143 116	20 227 173 961
	Mixedwood	273	3 525			8 510	114 009	16 237	170 569	25 020 288 104
	Hardwood	288	5 064			9 494	142 887	9 088	108 641	18 871 256 592
	Regenerating	10				555		2 457		3 022
Small private holdings²		5 746	62 993	40	317	4 839	66 596	3 553	24 138	14 177 154 044
By age	0-10 years	1 279	174	19	3	644	1 114	1 087	212	3 029 1 503
	30 years	1 139	10 959	6	59	270	3 090	568	3 844	1 983 17 952
	50 years	2 785	41 542	11	190	2 682	42 440	1 482	15 617	6 961 99 789
	70 years	130	2 049			628	10 012	365	4 232	1 123 16 293
	90 years	412	8 269	3	65	614	9 938	19	167	1 048 18 439
	120 years					0	2	33	65	33 67
By forest type	Softwood	994	10 466	0	3	445	6 800	472	2 531	1 911 19 799
	Mixedwood	2 160	24 097	3	24	1 707	26 598	826	7 212	4 695 57 932
	Hardwood	2 059	28 430	21	290	2 296	33 198	1 839	14 395	6 215 76 313
	Regenerating	533		15		391		416		1 356
Large private holdings²		1 242	15 079			405	5 712	113	866	1 759 21 657
By age	0-10 years	271	33			37	115	3		310 147
	30 years	131	1 161			24	204	22	76	177 1 442
	50 years	522	8 596			208	3 294	23	185	753 12 074
	70 years	91	1 391			40	669	8	104	140 2 164
	90 years	226	3 897			93	1 365	22	212	340 5 474
	120 years	0	1			3	64	35	290	39 355
By forest type	Softwood	167	1 733			19	327	85	588	271 2 648
	Mixedwood	386	4 373			106	1 680	23	235	515 6 289
	Hardwood	631	8 973			270	3 704	4	43	905 12 720
	Regenerating	58				9		0		67
Federal lands²		1	17	1	2	445	6 662	19	118	467 6 800
By age	0-10 years	0		1		13	13	6		20 13
	30 years	0	0	0	2	10	106	6	35	16 143
	50 years	1	17			285	4 480	6	62	292 4 559
	70 years	0				63	966	2	21	65 987
	90 years					74	1 098	0	0	74 1 098
	120 years									
By forest type	Softwood	0	3			19	285	2	13	21 300
	Mixedwood	0	4			105	1 639	6	26	111 1 669
	Hardwood	1	10	0	2	310	4 739	11	80	322 4 831
	Regenerating	0		1		11		1		13

1. Updated September 2004.

2. The figures have been rounded off, which may have caused negligible errors.

2 Intensive survey zone

Area of productive forests (grades between 0 % and 40 %)¹ and available gross merchantable volume (cont'd) By age, forest type and administrative region (cont'd)

02.03.01

	Administrative regions								Subtotal ²	
	09		10		11		12			
	(km ²)	(m ³ , 000s)	(km ²)	(m ³ , 000s)	(km ²)	(m ³ , 000s)	(km ²)	(m ³ , 000s)	(km ²)	(m ³ , 000s)
Total area²	80 293	661 885	57 768	389 011	16 383	137 961	10 920	94 021	165 365	1 282 878
By age										
0-10 years	11 995	15	15 722	440	3 242	66	2 997	1 694	33 956	2 214
30 years	5 699	12 111	3 461	5 323	2 637	11 820	1 774	13 755	13 571	43 008
50 years	6 601	53 148	2 927	17 634	5 173	57 980	4 475	54 459	19 176	183 221
70 years	6 223	67 221	13 160	162 523	2 615	33 214	809	10 129	22 807	273 087
90 years	23 201	253 282	5 858	60 685	2 195	29 070	859	13 901	32 112	356 937
120 years	26 575	276 108	16 640	142 406	521	5 813	7	84	43 743	424 411
By forest type										
Softwood	61 782	587 209	39 117	321 515	7 194	67 647	2 468	21 264	110 560	997 635
Mixedwood	8 165	59 267	7 368	54 342	6 141	51 515	4 709	38 727	26 384	203 851
Hardwood	1 725	15 409	1 734	13 153	1 938	18 799	2 694	34 031	8 090	81 392
Regenerating	8 622		9 549		1 111		1 050		20 331	
Québec public lands²	78 693	650 956	56 061	376 339	13 271	110 335	1 493	14 705	149 519	1 152 336
By age										
0-10 years	11 718	15	15 446	434	2 594	6	420	15	30 178	470
30 years	5 468	11 306	3 378	4 986	2 105	8 477	83	474	11 033	25 244
50 years	5 967	47 533	2 824	16 732	3 886	42 843	373	5 608	13 050	112 717
70 years	6 051	65 539	13 017	160 956	2 158	26 968	439	5 880	21 664	259 344
90 years	22 969	250 960	5 323	55 829	2 014	26 288	171	2 644	30 476	335 721
120 years	26 520	275 602	16 074	137 401	516	5 753	7	83	43 117	418 840
By forest type										
Softwood	60 940	580 762	37 884	311 467	6 467	61 657	532	5 252	105 823	959 138
Mixedwood	7 664	55 846	7 165	52 156	4 534	36 609	590	5 917	19 952	150 528
Hardwood	1 590	14 348	1 688	12 716	1 307	12 069	218	3 536	4 803	42 669
Regenerating	8 500		9 325		963		153		18 940	
Small private holdings²	578	3 882	138	808	2 780	24 845	8 773	72 706	12 270	102 241
By age										
0-10 years	99		44	4	607	58	2 389	1 664	3 139	1 726
30 years	91	339	31	176	473	3 077	1 638	12 911	2 233	16 504
50 years	304	2 704	37	352	1 158	13 835	3 818	44 542	5 318	61 432
70 years	34	324	17	183	380	5 350	293	3 206	724	9 063
90 years	42	444	4	45	158	2 482	635	10 383	839	13 355
120 years	8	70	6	48	4	43			18	161
By forest type										
Softwood	212	1 419	46	286	647	5 323	1 804	14 862	2 710	21 891
Mixedwood	236	1 686	31	258	1 437	13 489	3 799	29 787	5 503	45 221
Hardwood	82	777	36	263	560	6 033	2 332	28 056	3 010	35 129
Regenerating	48		26		136		837		1 048	
Large private holdings²	722	5 050	698	5 195	104	792	655	6 610	2 179	17 647
By age										
0-10 years	117		139	1	20		188	14	464	15
30 years	122	397	35	127	33	173	53	369	243	1 067
50 years	220	2 074	40	350	25	262	283	4 309	569	6 995
70 years	104	1 028	53	572	19	239	78	1 043	254	2 882
90 years	124	1 251	163	1 673	6	107	53	874	347	3 904
120 years	34	300	267	2 473	1	10	0	0	302	2 784
By forest type										
Softwood	457	3 604	471	4 060	50	423	131	1 149	1 109	9 235
Mixedwood	180	1 196	100	1 060	50	352	320	3 022	650	5 630
Hardwood	45	250	6	75	3	17	144	2 439	198	2 781
Regenerating	40		120		1		60		222	
Federal lands²	300	1 997	870	6 667	228	1 990			1 398	10 655
By age										
0-10 years	60		93	2	21	2			174	3
30 years	18	68	17	33	26	92			61	193
50 years	110	838	26	200	105	1 039			240	2 077
70 years	33	330	74	811	58	657			165	1 798
90 years	66	627	367	3 138	17	193			450	3 958
120 years	13	135	293	2 483	0	7			307	2 626
By forest type										
Softwood	173	1 424	716	5 702	29	244			918	7 370
Mixedwood	86	538	72	867	121	1 066			279	2 471
Hardwood	7	36	5	98	67	680			79	814
Regenerating	34		77		11				121	

1. Updated September 2004.

2. The figures have been rounded off, which may have caused negligible errors.

2 Intensive survey zone

Area of productive forests (grades between 0 % and 40 %)¹ and available gross merchantable volume (cont'd)

02.03.01

By age, forest type and administrative region (cont'd)

	Administrative regions								Total ²	
	13 (km ²) (m ³ ,000s)		14 (km ²) (m ³ ,000s)		15 (km ²) (m ³ ,000s)		16 (km ²) (m ³ ,000s)		17 (km ²) (m ³ ,000s)	
Total area²	61	362	9 892	115 745	17 811	241 717	3 591	41 930	3 504	30 644
By age										
0-10 years	31		1 610	323	1 717	2 241	564	219	787	694
30 years	14	108	879	6 657	1 065	7 695	837	7 790	761	5 078
50 years	15	233	3 042	42 239	6 233	92 904	1 654	23 516	1 790	21 722
70 years	0	1	2 461	38 162	2 822	41 348	114	1 923	37	489
90 years	1	20	1 764	26 919	5 634	93 102	422	8 482	129	2 662
120 years			135	1 446	340	4 427				68 112
By forest type										
Softwood			1 399	15 153	2 450	25 815	212	2 936	548	4 150
Mixedwood	8	63	4 838	58 891	6 328	86 264	815	11 159	973	10 031
Hardwood	25	299	3 320	41 702	8 617	129 638	2 255	27 835	1 705	16 463
Regenerating	28		335		416		310		279	
Québec public lands²			7 596	88 090	12 995	174 262	23	227	67	648
By age										
0-10 years			1 264	249	1 093	1 331	7	2	11	4
30 years			635	4 272	861	5 863	5	46	12	79
50 years			1 755	23 796	3 326	47 417	6	92	38	463
70 years			2 159	33 552	2 434	34 885	0	5	3	37
90 years			1 648	24 775	4 947	80 471	5	83	4	66
120 years			135	1 446	334	4 296				67 125
By forest type										
Softwood			1 240	13 244	2 091	21 559	1	11	14	123
Mixedwood			3 959	47 633	4 787	63 208	3	31	28	309
Hardwood			2 170	27 213	5 938	89 496	15	185	22	216
Regenerating			228		179		4		4	
Small private holdings²	61	362	2 287	27 560	4 567	64 130	3 479	40 601	3 377	29 413
By age										
0-10 years	31		345	74	587	908	539	200	763	681
30 years	14	108	244	2 383	185	1 652	825	7 677	739	4 936
50 years	15	233	1 285	18 418	2 785	43 596	1 609	22 826	1 731	21 019
70 years	0	1	302	4 597	354	5 943	111	1 876	32	415
90 years	1	20	112	2 088	650	11 901	395	8 021	112	2 362
120 years					6	131				61
By forest type										
Softwood			159	1 909	335	3 946	210	2 917	524	3 974
Mixedwood	8	63	876	11 224	1 466	21 917	807	11 044	930	9 541
Hardwood	25	299	1 146	14 428	2 560	38 267	2 169	26 640	1 652	15 898
Regenerating	28		107		207		293		271	
Large private holdings²			2	35	29	500	31	502	55	517
By age										
0-10 years			0		0	1	3	8	13	9
30 years					2	23	1	7	10	60
50 years			1	9	11	187	11	182	17	180
70 years			0	6	4	69	1	25	2	35
90 years			1	19	11	221	16	281	13	234
120 years										524
By forest type										
Softwood					3	34	1	8	9	48
Mixedwood			1	15	9	173	3	58	15	174
Hardwood			1	19	17	293	27	436	27	294
Regenerating					0		0		5	
Federal lands²	7	61	221	2 824	58	600	5	67		2 864
By age										
0-10 years			2		37	1	16	10	1	
30 years			0	2	17	158	7	60	0	5
50 years			1	16	111	1 704	29	416	4	61
70 years			0	5	30	452	1	17	0	1
90 years			3	37	26	509	5	96		
120 years										402
By forest type										
Softwood			1	0	22	275			1	5
Mixedwood			2	19	66	966	2	26	1	7
Hardwood			3	42	103	1 582	44	574	4	55
Regenerating					30		12		0	

1. Updated September 2004.

2. The figures have been rounded off, which may have caused negligible errors.

3 Forest protection in Québec

Highlights

03.00.01

Area affected by spruce budworms (ha, 000s)

	2005	2006
Light defoliation	3,7	10,8
Moderate defoliation	11,9	14,4
Severe defoliation	27,7	25,3
Total area affected	43,3	50,5

Areas affected by hemlock loopers (ha)

	2005	2006
Light defoliation	4	0
Moderate defoliation	4	0
Severe defoliation	0	
Total area affected	8	0

Forest fires

	2005	2006
Intensive protection zone		
• Fires (no.)	1 258	573
• Area disturbed (ha, 000s)	386,7	13,7
• Fire control and firefighting costs (\$, million)	120,8	67,6
• Relative importance of fires caused by lightning ¹ (%)		
- Number	34	
- Area disturbed	95	
	2005	2006
Limited protection zone		
• Fires (no.)	116	60
• Area disturbed (ha, 000s)	413,5	110,5
• Fire control and firefighting costs (\$, million)	1,5	0,8

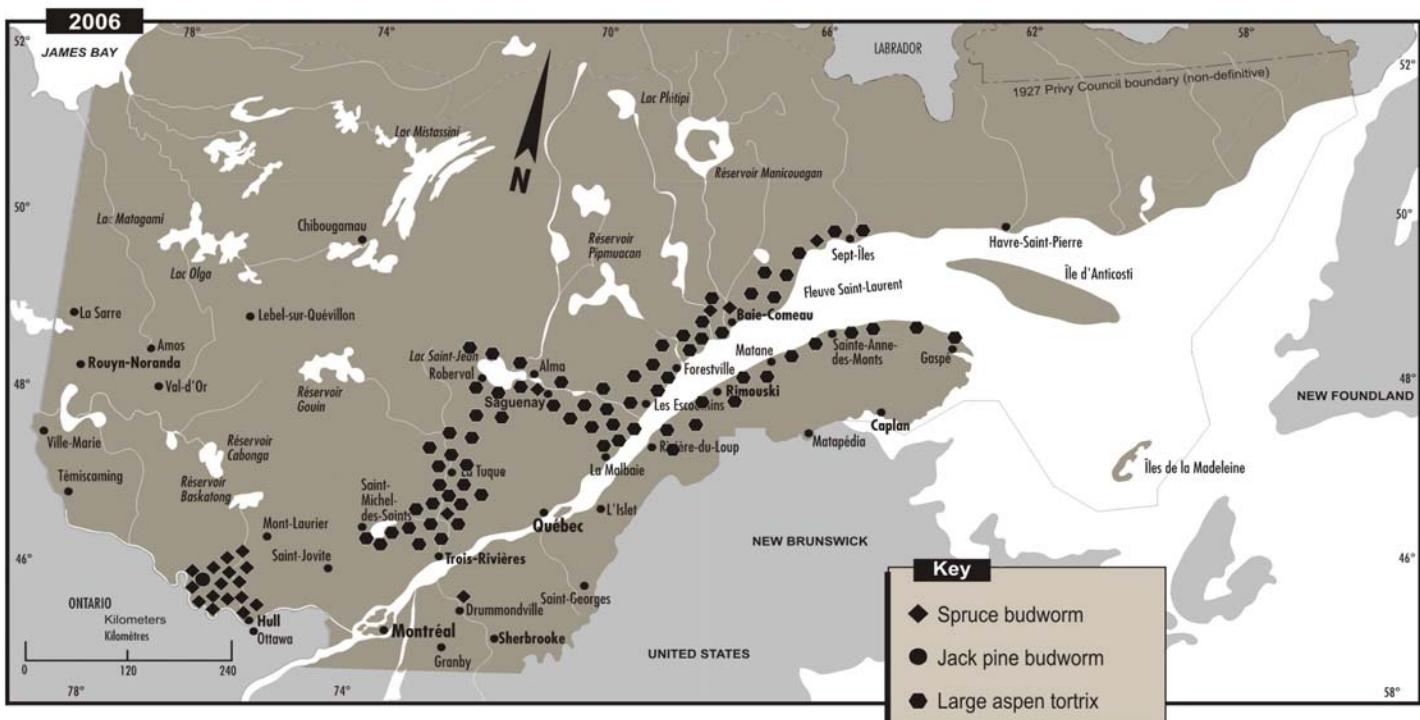
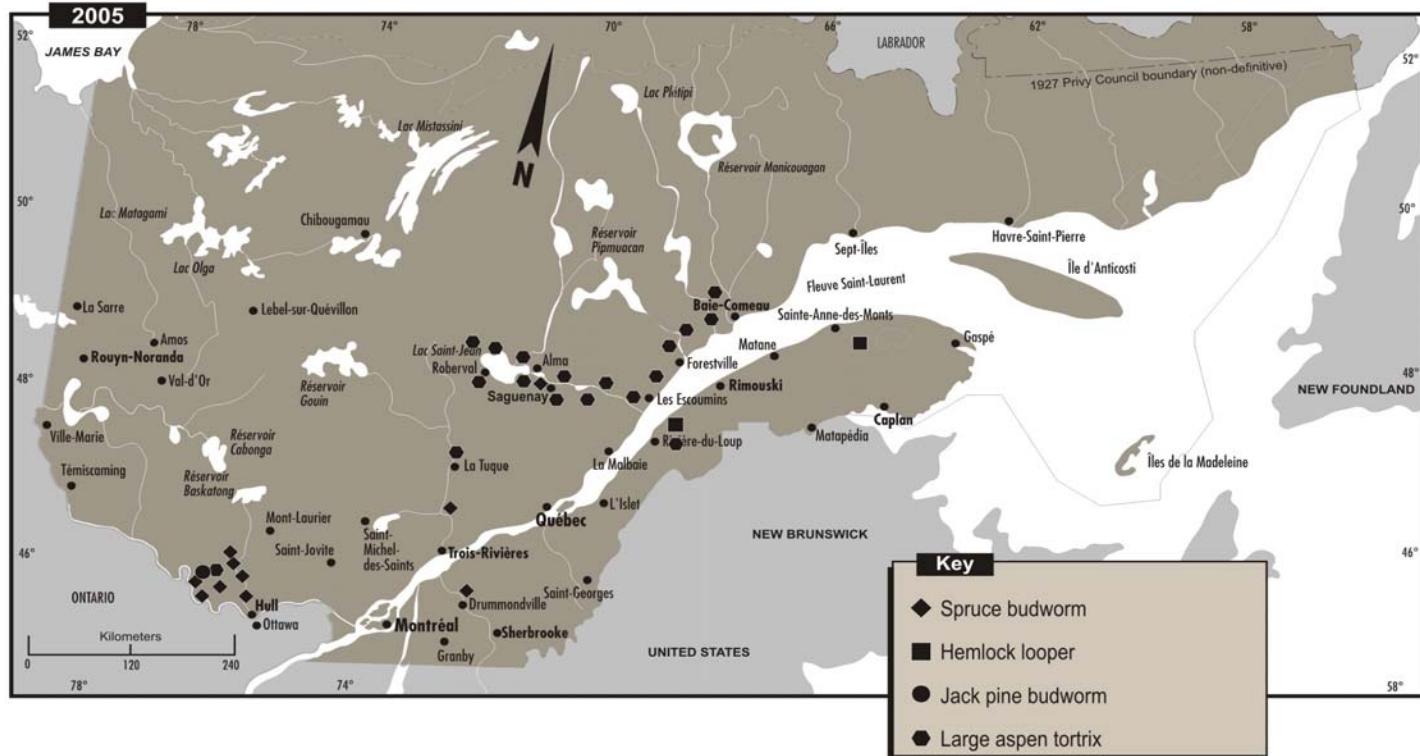
1. Lightning was the main cause of forest fires in Québec during the period 1996-2005.

3 Forest protection in Québec

Insects and diseases

Areas damaged by defoliator insects

03.03.01

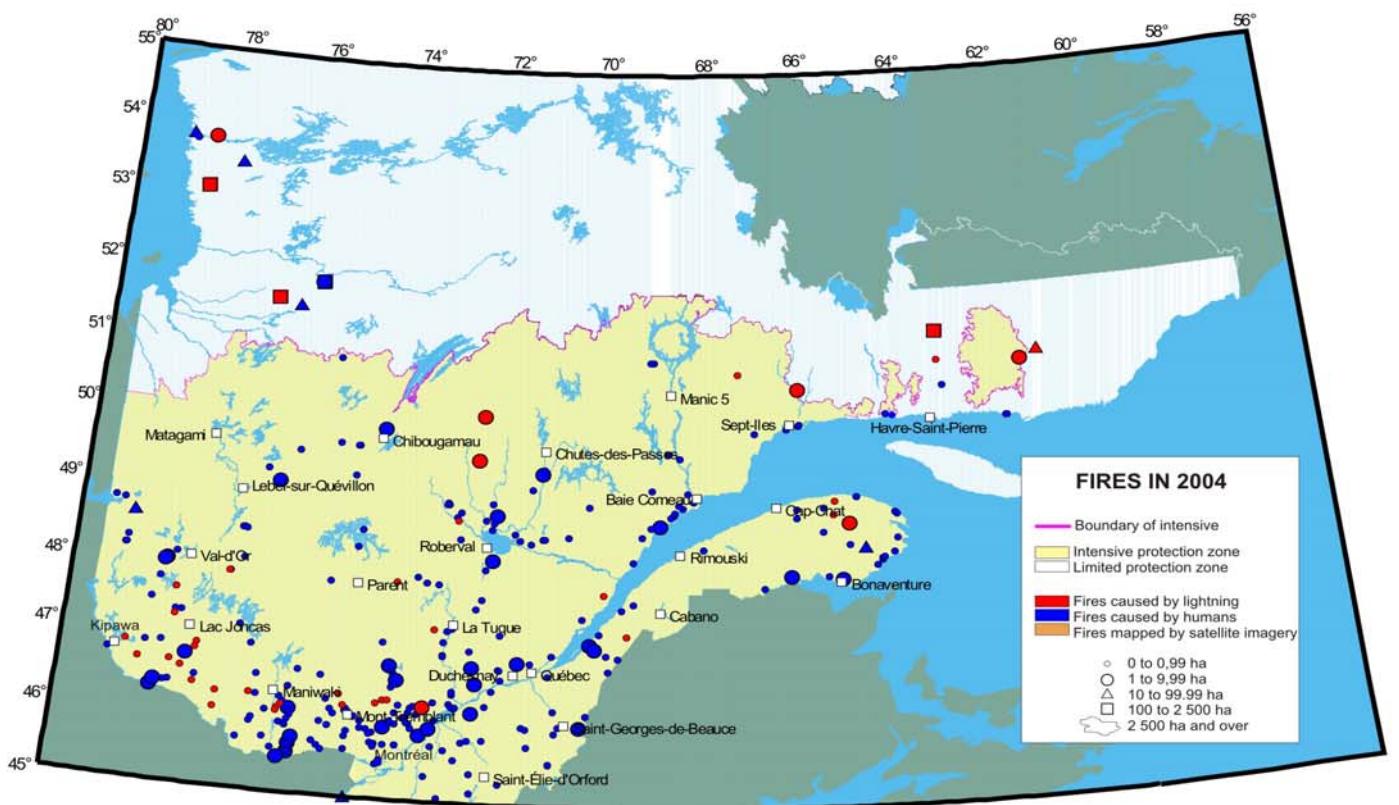
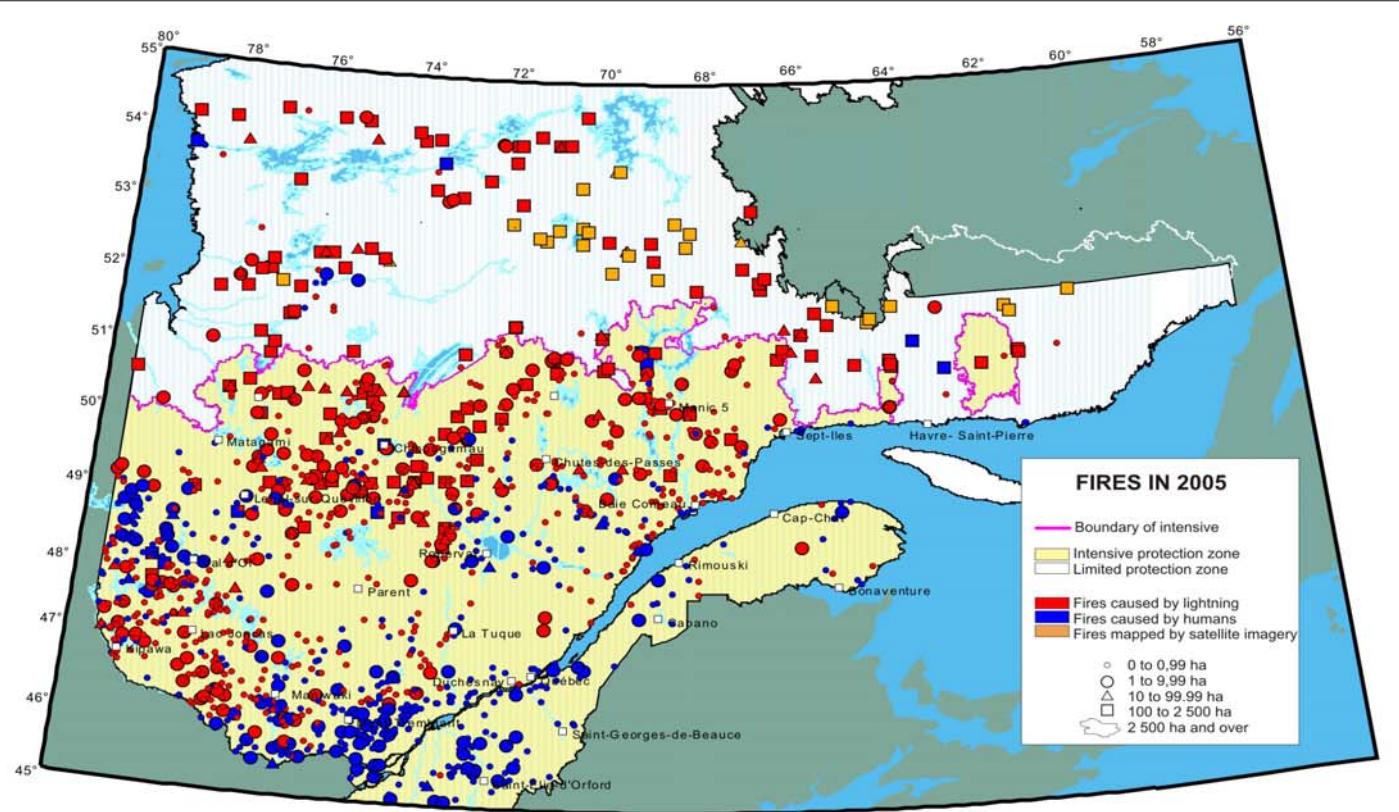


3 Forest protection in Québec

Forest fires

Areas damaged by fires

03.04.01



3 Forest protection in Québec

Forest fires (cont'd)

Intensive protection zone

Breakdown of forest fires by administrative region

03.04.07

Administrative regions	2001	2002	2003	2004	2005	2006	Total	
01 Bas-Saint-Laurent	no. ha	19 2	21 79	13 3	5 1	14 5	7 1	79 91
02 Saguenay—Lac-Saint-Jean	no. ha	91 361	121 90 809	89 6 760	27 29	207 259 846	89 1 011	624 358 816
03 Capitale-Nationale	no. ha	54 25	50 14	34 40	9 3	14 11	16 1	177 94
04 Mauricie ¹	no. ha	56 83	90 74	67 566	29 13	60 28	53 67	355 831
05 Estrie	no. ha	54 39	12 4	16 11	6 0	18 18	3 1	109 73
06 Montréal	no. ha						0 0	
07 Outaouais	no. ha	131 56	98 36	49 254	38 18	143 97	36 22	495 483
08 Abitibi-Témiscamingue	no. ha	178 233	94 91	51 153	33 33	249 11 749	77 146	682 12 405
09 Côte-Nord	no. ha	59 6	58 6 359	72 484	24 12	153 26 022	45 884	411 33 767
10 Nord-du-Québec	no. ha	49 363	54 134 820	35 621	10 5	170 88 734	155 11 553	473 236 096
11 Gaspésie—Îles-de-la-Madeleine	no. ha	25 11	25 79	15 4	23 72	11 2	11 2	110 170
12 Chaudière-Appalaches	no. ha	25 11	36 9	27 14	14 8	19 8	15 3	136 53
13 Laval	no. ha						0 0	
14 Lanaudière	no. ha	88 35	44 20	52 48	33 24	72 50	18 2	307 179
15 Laurentides	no. ha	78 53	61 23	69 37	37 7	85 55	29 16	359 191
16 Montérégie	no. ha	41 64	23 21	16 18	7 31	28 30	15 14	130 178
17 Centre-du-Québec	no. ha	22 16	16 5	22 35	5 2	15 16	4 1	84 75
Total	no. ha	970 1 358	803 232 443	627 9 048	300 258	1 258 386 671	573 13 724	4 531 643 502

1. This breakdown has been made according to the boundaries of the administrative regions established in November of 2004.

4 Sustainable development of Québec's forests

Highlights

Sustainable development criteria

04.00.01

- 1 - Preservation of biological diversity
- 2 - Maintenance and improvement of the conditions and productivity of forest ecosystems
- 3 - Conservation of soil and water resources
- 4 - Maintenance of the function of forest ecosystems as a component of global ecological cycles
- 5 - Maintenance of the multiple socio-economic benefits society derives from the forests
- 6 - Giving of proper consideration, in selecting forms of development, to the values and needs expressed by the populations concerned

Distribution of protected areas by bioclimatic domain

(km²)

Sugar maple-bitternut hickory domain	296
Sugar maple-basswood domain	884
Sugar maple-yellow birch domain	2 717
Balsam fir-yellow birch domain	2 395
Balsam fir-white birch domain	14 463
Spruce-moss domain	28 664
Spruce-lichen domain	4 542
Forest tundra domain	21 908
Shrub arctic tundra domain	16 953
Herbaceous arctic tundra domain	1 321
Waters of the St. Lawrence River, James Bay, Hudson Bay, Ungava Bay and Hudson Strait	2 955
Total	97 098

Plant species designated as threatened or vulnerable

Small White Leek
Puttyroot
Green dragon
Butterfly milkweed
Pod-fern
White wood-aster
American alpine lady fern
False hop sedge
Late coral-root
Broom crowberry
Ram's-head lady's slipper
Wall rue
False mermaid-weed
Dwarf huckleberry
American ginseng
Woodland sunflower
Lizard's tail
Slender muhly
Softhair marbleseed
Rock elm
Pitch pine
Broad beech fern
May apple
Eastern jacob's-ladder
Pinedrops
Douglas' knotweed
Round-leaf groundsel
Fragrant sumac
Bog fern
Marsh valerian
Blunt-lobed cliff fern

Animal species likely to be designated as threatened or vulnerable

Fish	5
Amphibians	5
Reptiles	6
Birds	8
Mammals	15

5 Forest Management Highlights

05.00.01

Allowable annual cut in Québec's forest (m³, 000s)

	March 31, 2006
Allowable annual cut - public forests (common areas) (softwoods : 72.7 %, hardwoods : 27.3 %)	35 199,4
Allowable annual cut - private forests (regional agencies) (softwoods : 46.4 %, hardwoods : 53.6 %)	11 968,8
Current volumes (softwoods : 36.9 %, hardwoods : 63.1 %)	651,6
Total	47 819,8

Surface areas considered in calculating the allowable annual cut in Québec (ha, 000s)

	March 31, 2006
Productive public forests ¹ - TSFMA and FMA	29 891,8
- FMCs	1 671,1
Productive private forests ¹ (regional agencies)	6 624,6
Total	38 187,5

1. Grades between 0 % and 40 %.

Volume of timber allocated in Québec's public forests (m³, 000s)

	March 31, 2006
Timber supply and forest management agreements (TSFMA) and	
Forest management agreements (FMA)	36 055,7
Forest management contracts (FMC)	853,6

Number of common areas and timber supply and forest management agreements

	March 31, 2006
Common areas	114
Timber supply and forest management agreements (TSFMA) and	
Forest management agreements (FMA)	232
Forest management contracts (FMC)	89

Volume of timber harvested in Québec in 2005-2006 (m³, 000s)

Public forests	29 537p
Private forests (estimate) ¹ • Volumes marketed by syndicates and marketing boards	9 079p 6 264
Total	38 616
Volumes harvested/allowable annual cut ² • Softwoods	96,6%
• Hardwoods	56,4%
Total	81,9%

1. Including approximately 2.0 million m³ of firewood.

2. Allowable annual cut (public and private forests), all species combined.

Size of cutting areas in Québec

2005-2006 (ha, 000s)

Public forests	321,2
Private forests (estimate)	85,0
Total	406,2
Total size of cutting areas/productive forest area¹	1,06 %

1. Total area of public and private forests considered in calculating the allowable annual cut.

Market value of standing trees

(public forests, all species combined), based on the mean provincial unit rate

	(\$/m ³)
2003-2004	11,13
2004-2005	12,61
Total	12,82

Relative share of transportation methods used for Québec's lumber exports

	2004-2005	2005-2006
Rail	41,1 %	37,4 %
Truck	56,6 %	60,2 %
Ship	2,3 %	2,4 %
Total	100 %	100 %

Network of permanent forest roads in Québec in 2005-2006

Length (km)	16 700e
Bridges (no.)	590e

Québec's production of seedlings for reforestation

	2004-2005	2005-2006
Cones harvested (hl)	1 530,9p	1 584,9p
Area of seed tree orchards (ha)	1 349,4p	1 284,0p
Seedlings produced (000s)	135 995,0p	127 944,0p
• MRNF nurseries	35 632,0p	34 343,0p
• Privately owned nurseries	100 363,0p	93 601,0p

Reforestation in Québec

	(seedlings, 000s)	(ha, 000s)
Public forests	2002-2003r	109 542
	2003-2004r	83 102
	2004-2005p	74 020
Private forests	2002-2003r	26 311
	2003-2004r	23 486
	2004-2005p	21 972
Total	2002-2003r	135 853
	2003-2004r	106 588
	2004-2005p	95 992

5 Forest Management Highlights (cont'd)

05.00.01

Site preparation in Québec's forests (ha, 000s)

Public forests	2002-2003r	52,9
	2003-2004r	46,4
	2004-2005p	41,8
Private forests	2002-2003r	9,1
	2003-2004r	9,0
	2004-2005p	8,2
Total	2002-2003r	62,0
	2003-2004r	55,4
	2004-2005p	49,9

Noncommercial silvicultural treatments carried out in Québec¹ (ha, 000s)

Public forests	2002-2003r	116,0
	2003-2004r	105,4
	2004-2005p	102,2
Private forests	2002-2003r	17,5
	2003-2004r	16,8
	2004-2005p	19,0
Total	2002-2003r	133,4
	2003-2004r	122,2
	2004-2005p	121,3

Commercial silvicultural treatments carried out in Québec¹ (ha, 000s)

Public forests	2002-2003r	330,1
	2003-2004r	260,0
	2004-2005p	271,3
Private forests	2002-2003r	10,0
	2003-2004r	9,8
	2004-2005p	11,9
Total	2002-2003r	340,1
	2003-2004r	269,8
	2004-2005p	283,1

Silvicultural treatments planned in Québec forests to achieve fixed yields (ha, 000s/year)

Common areas ¹	670,9
Regional agencies for private forest development ²	67,4

1. Silvicultural treatments planned in the public forests, 2005-2006.

2. Silvicultural treatments planned in the private forests, 2000-2006.

Silvicultural treatments carried out in Québec (ha, 000s)

Public forests	2002-2003r	575,6
	2003-2004r	472,2
	2004-2005r	466,3
	2005-2006p	546,4
Private forests	2002-2003r	48,7
	2003-2004r	46,4
	2004-2005rp	49,2
	2005-2006p	49,0
Total	2002-2003r	624,3
	2003-2004r	518,6
	2004-2005r	515,5
	2005-2006p	595,4

5 Forest management

Allowable annual cut

The allowable annual cut was calculated for public forests (areas covered by common areas) (37.4 million ha) and for small and large private holdings (6.6 million ha).

Allowable annual cut by administrative region¹ on March 31, 2006 (public forests - common areas) (m³)

05.01.01

Administrative regions	Public forests (Common areas)					Forest reserves ²					Total
	Fir, spruce, jack pine, larch	Other softwoods	Poplars	Other hardwoods	Subtotal	Fir, spruce, jack pine, larch	Other softwoods	Poplars	Other hardwoods	Subtotal	
01 Bas-Saint-Laurent	744 735	40 116	104 392	228 598	1 117 841	-	-	-	-	-	-
02 Saguenay—Lac-Saint-Jean	5 972 808	4 368	613 817	906 152	7 497 146	-	-	-	-	-	-
03 Capitale-Nationale	686 203	8 256	94 347	257 987	1 046 794	-	-	-	-	-	-
04 Mauricie	2 091 249	52 603	451 384	970 617	3 565 853	-	-	-	-	-	-
05 Estrie	25 778	2 512	5 647	40 800	74 737	-	-	-	-	-	-
06 Montréal						-	-	-	-	-	-
07 Outaouais	652 423	539 607	410 918	1 539 561	3 142 508	-	-	-	-	-	-
08 Abitibi-Témiscamingue	2 740 618	420 039	662 844	1 319 929	5 143 430	-	-	-	-	-	-
09 Côte-Nord	3 885 808	665	262 290	407 250	4 556 013	-	-	-	-	-	-
10 Nord-du-Québec	3 987 513		450 981	233 230	4 671 724	-	-	-	-	-	-
11 Gaspésie—Îles-de-la-Madeleine	1 219 885	34 696	136 489	127 536	1 518 606	-	-	-	-	-	-
12 Chaudière-Appalaches	124 644	16 832	23 195	51 315	215 985	-	-	-	-	-	-
13 Laval						-	-	-	-	-	-
14 Lanaudière	430 038	29 801	149 278	358 331	967 448	-	-	-	-	-	-
15 Laurentides	519 260	112 650	129 020	919 240	1 680 169	-	-	-	-	-	-
16 Montérégie						-	-	-	-	-	-
17 Centre-du-Québec	573	46	46	498	1 162	-	-	-	-	-	-
Total	23 081 536	1 262 190	3 494 647	7 361 042	35 199 415	-	-	-	-	-	-

Allowable annual cut³ by administrative region⁴ on March 31, 2006 (private forests) (m³)

Administrative regions	Allowable annual cut					Current volumes					Total
	Fir, spruce, jack pine, larch	Other softwoods	Poplars	Other hardwoods	Subtotal	Fir, spruce, jack pine, larch	Other softwoods	Poplars	Other hardwoods	Subtotal	
01 Bas-Saint-Laurent	808 550	60 700	373 900	316 200	1 559 350	25 800	28 300	172 100	92 800	319 000	1 878 350
02 Saguenay—Lac-Saint-Jean	303 800	3 600	191 600	81 800	580 800						580 800
03 Capitale-Nationale	393 000	38 500	158 400	370 000	959 900						959 900
04 Mauricie	457 700	33 900	71 200	253 900	816 700						816 700
05 Estrie	494 100	132 200	127 500	555 000	1 308 800	6 000	30 400		19 600	56 000	1 364 800
06 Montréal											
07 Outaouais	172 600	220 600	269 000	557 500	1 219 700						1 219 700
08 Abitibi-Témiscamingue	233 400	15 700	521 400	74 100	844 600						844 600
09 Côte-Nord	113 300	1 300	51 900	31 600	198 100						198 100
10 Nord-du-Québec											
11 Gaspésie—Îles-de-la-Madeleine	259 100	19 800	110 500	136 200	525 600	19 400	28 600	29 600	35 600	113 200	638 800
12 Chaudière-Appalaches	913 400	165 100	169 700	714 700	1 962 900	8 000	45 000	12 000		65 000	2 027 900
13 Laval											
14 Lanaudière	88 700	28 300	38 100	158 700	313 800						313 800
15 Laurentides	211 300	73 600	140 400	427 000	852 300	4 600	44 300	14 100	35 400	98 400	950 700
16 Montérégie	36 300	66 200	30 000	283 900	416 400						416 400
17 Centre-du-Québec	154 400	57 800	58 000	139 600	409 800						409 800
Total	4 639 650	917 300	2 311 600	4 100 200	11 968 750	63 800	176 600	227 800	183 400	651 600	12 620 350

1. Volumes are distributed proportionally to the size of common areas located in the region.

2. Data not available at this time.

3. Established by the regional agencies for private forests development as part of the PPDFP.

4. Includes small and large private forests and excludes Category 1 lands.

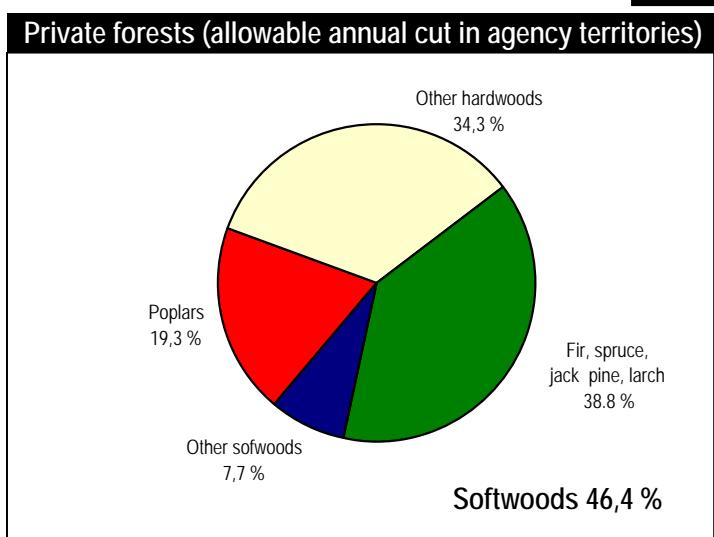
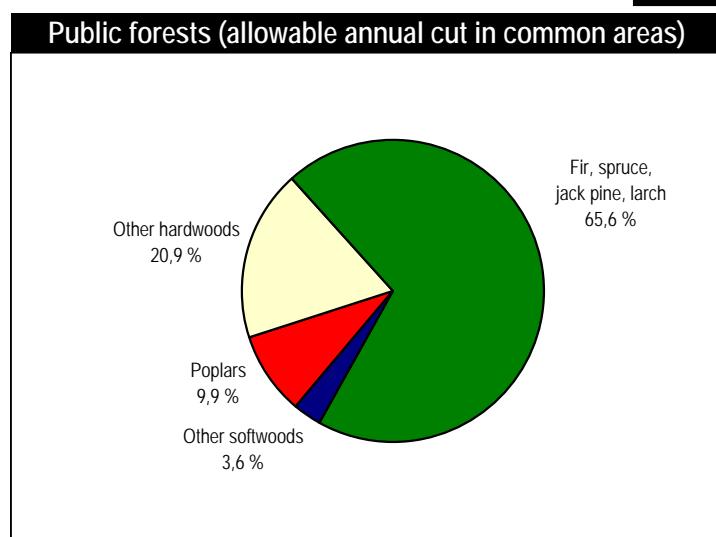
5 Forest management

Allowable annual cut (cont'd)

Breakdown of allowable annual cut by species in 2006

05.01.02

05.01.03



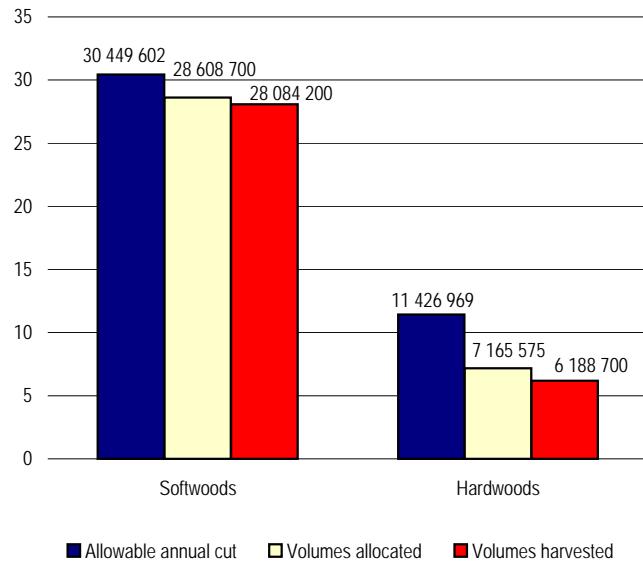
5 Forest Management

Allowable annual cut (cont'd)

Allowable annual cut/volumes allocated (common areas)/volumes harvested (public forests)

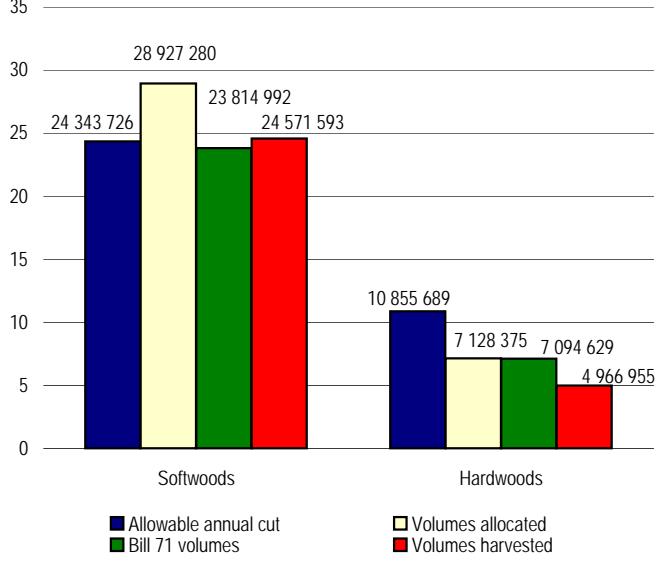
By species group, 2004-2005

(m³, million)



By species group, 2005-2006

(m³, million)

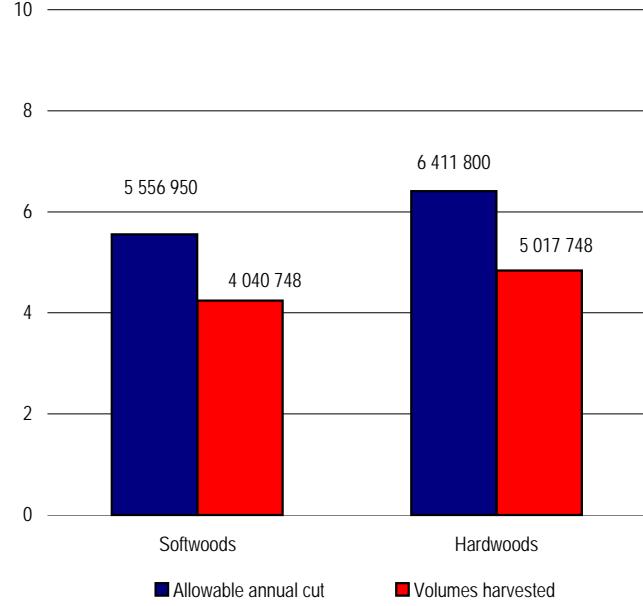


05.01.10

Allowable annual cut/volumes harvested¹ (private forests)

By species group, 2004-2005

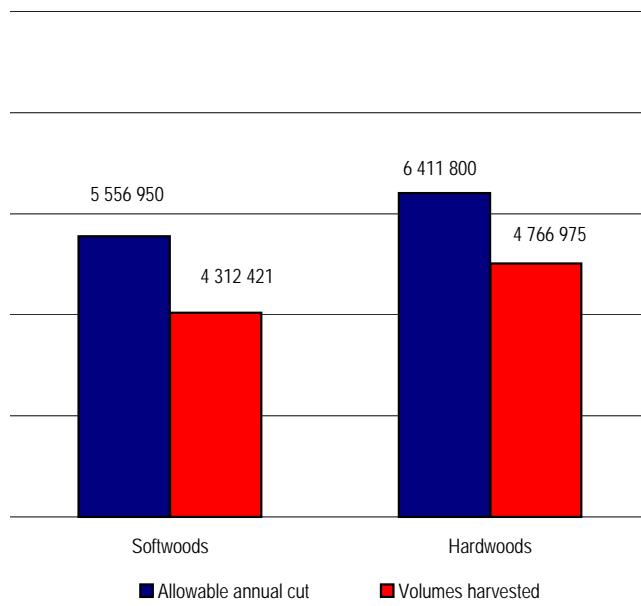
(m³, million)



Allowable annual cut/volumes harvested¹ (private forests)

By species group, 2005-2006

(m³, million)



05.01.11

1. Including an estimated volume of firewood (1.9 million m³ of hardwoods).

1. Including an estimated volume of firewood (1.9 million m³ of hardwoods).

5 Forest management

Harvest

Volume of timber harvested in public and private forests

05.02.01

A) By tenure and species group

	2001-2002		2002-2003		2003-2004		2004-2005		2005-2006	
	Total	Total								
	('000 m ³)	(%)								
Total	40 157	100	41 175	100	39 899	100	43 332	100	38 616p	100
Softwoods	29 826	74	31 261	76	29 430	74	32 125	74	28 883p	75
Hardwoods	10 331	26	9 914	24	10 469	26	11 207	26	9 734p	25
Québec public lands¹	30 306	100	31 288	100	30 814	100	34 273	100	29 537p	100
Softwoods	25 139	83	26 481	85	25 186	82	28 084	82	24 571p	83
Hardwoods	5 167	17	4 807	15	5 628	18	6 189	18	4 967p	17
Private holdings²	9 851	100	9 887	100	9 085	100	9 059	100	9 079	100
Softwoods	4 687	48	4 780	48	4 244	47	4 041	45	4 312	47
Hardwoods	5 164	52	5 107	52	4 841	53	5 018	55	4 767	53

1. Volume of timber harvested and actually measured in public forests, not including small volumes harvested for specific purposes (public utility works, mining activities, wildlife and leisure developments, etc.).

2. Estimated volume harvested in private forests by individual producers or producers' groups, including chips and firewood (approx. 1.9 million m³), but excluding small volumes of roundwood harvested for export.

5 Forest management

Harvest (cont'd)

Volume of timber harvested in public and private forests (cont'd)

B) By administrative region (m³, 000s)

2003-2004

05.02.02

Administrative regions	Public forests ¹						Private forests ²					
	Fir, spruce, jack pine, larch	Other softwoods	Total softwoods	Poplars	Other hardwoods	Total hardwoods	Fir, spruce, jack pine, larch	Other softwoods	Total softwoods	Poplars	Other hardwoods	Total hardwoods
01 Bas-Saint-Laurent	886,0	27,6	913,6	104,3	217,8	322,1	620,5	79,3	699,8	422,0	283,2	705,1
02 Saguenay—Lac-Saint-Jean	7 341,0	0,8	7 341,9	376,7	420,4	797,1	304,2	0,4	304,5	62,4	44,3	106,8
03 Capitale-Nationale	520,0	0,9	520,9	41,7	64,7	106,4	296,5	14,6	311,1	78,1	219,7	297,8
04 Mauricie	2 608,9	35,7	2 644,5	359,3	408,6	767,9	443,4	28,1	471,4	15,4	144,3	159,8
05 Estrie	14,0	0,6	14,6	8,3	29,7	38,0	429,2	98,7	527,9	120,5	530,6	651,1
06 Montréal	-	-	-	-	-	-	-	-	-	-	-	-
07 Outaouais	396,9	305,1	702,0	337,3	717,4	1 054,7	97,9	113,7	211,6	244,4	406,0	650,4
08 Abitibi-Témiscamingue	2 803,5	66,3	2 869,9	554,1	267,7	821,8	166,4	2,6	169,0	295,4	19,6	315,0
09 Côte-Nord	3 160,1	-	3 160,1	14,9	10,6	25,6	80,5	0,4	80,8	13,4	7,3	20,6
10 Nord-du-Québec	4 372,1	-	4 372,1	324,7	5,2	329,8	-	-	-	-	-	-
11 Gaspésie—Îles-de-la-Madeleine	1 325,8	26,3	1 352,1	120,8	127,4	248,2	95,2	29,6	124,9	71,0	57,0	128,1
12 Chaudière-Appalaches	150,6	9,9	160,5	20,0	36,1	56,1	737,0	94,6	831,6	165,2	489,0	654,2
13 Laval	-	-	-	-	-	-	-	-	-	-	-	-
14 Lanaudière	525,7	10,9	536,5	193,7	260,1	453,8	60,8	26,2	87,0	34,5	146,4	180,9
15 Laurentides	559,2	38,1	597,3	79,1	527,4	606,5	139,1	34,1	173,3	113,5	343,2	456,7
16 Montérégie	-	-	-	-	-	-	17,3	25,9	43,3	38,8	239,9	278,7
17 Centre-du-Québec	-	-	-	-	-	-	169,6	37,9	207,4	37,5	198,7	236,2
Total	24 664,0	522,2	25 186,2	2 534,8	3 093,2	5 628,0	3 657,6	586,1	4 243,7	1 712,1	3 129,4	4 841,5

1. Volume of timber harvested and scaled in public forests, not including small volumes harvested for specific purposes (public utility works, mining activities, wildlife and leisure developments, etc.).

2. Estimated volume harvested in private forests by individual producers or producers' groups, including chips and firewood (approx. 1.9 million m³), but excluding small volumes of roundwood harvested for export.

2004-2005

05.02.03

Administrative regions	Public forests ¹						Private forests ²					
	Fir, spruce, jack pine, larch	Other softwoods	Total softwoods	Poplars	Other hardwoods	Total hardwoods	Fir, spruce, jack pine, larch	Other softwoods	Total softwoods	Poplars	Other hardwoods	Total hardwoods
01 Bas-Saint-Laurent	956,4	41,7	998,1	105,2	233,1	338,3	571,3	65,0	636,3	444,7	273,3	718,0
02 Saguenay—Lac-Saint-Jean	7 325,8	0,2	7 326,0	447,4	483,5	930,9	214,6	1,1	215,7	149,9	53,3	203,2
03 Capitale-Nationale	648,9	1,8	650,7	45,5	87,9	133,4	345,3	16,3	361,6	83,9	222,3	306,2
04 Mauricie	3 350,9	38,1	3 389,0	439,2	603,1	1 042,4	264,4	15,6	279,9	24,8	194,1	218,9
05 Estrie	23,7	0,7	24,4	3,9	56,3	60,2	486,8	73,8	560,5	139,3	492,5	631,7
06 Montréal	-	-	-	-	-	-	-	-	-	-	-	-
07 Outaouais	458,7	255,0	713,7	326,9	758,3	1 085,2	118,3	114,4	232,6	257,4	410,4	667,8
08 Abitibi-Témiscamingue	3 324,4	132,2	3 456,6	431,7	377,9	809,5	177,5	0,1	177,6	302,1	19,3	321,5
09 Côte-Nord	3 938,6	-	3 938,6	24,5	12,1	36,6	145,1	0,4	145,4	16,6	8,6	25,1
10 Nord-du-Québec	4 558,5	-	4 558,5	288,3	9,0	297,3	-	-	-	-	-	-
11 Gaspésie—Îles-de-la-Madeleine	1 394,0	21,6	1 415,6	155,0	151,1	306,1	104,8	29,1	133,9	104,3	60,0	164,3
12 Chaudière-Appalaches	160,4	11,2	171,7	15,6	35,2	50,7	801,4	85,1	886,5	156,8	486,4	643,2
13 Laval	-	-	-	-	-	-	-	-	-	-	-	-
14 Lanaudière	699,1	22,3	721,3	110,6	245,0	355,5	48,7	16,7	65,4	33,5	144,1	177,5
15 Laurentides	673,6	46,4	720,0	131,4	610,9	742,3	104,1	23,4	127,6	121,2	352,4	473,5
16 Montérégie	-	-	-	-	0,1	0,1	10,9	11,8	22,7	34,6	220,2	254,8
17 Centre-du-Québec	-	-	-	-	-	-	159,0	36,0	195,0	32,3	179,7	212,0
Total	27 513,1	571,1	28 084,2	2 525,2	3 663,5	6 188,7	3 552,0	488,7	4 040,7	1 901,2	3 116,5	5 017,7

1. Volume of timber harvested and actually measured in public forests, not including small volumes harvested for specific purposes (public utility works, mining activities, wildlife and leisure developments, etc.).

2. Estimated volume harvested in private forests by individual producers or producers' groups, including chips and firewood (approx. 1.9 million m³), but excluding small volumes of roundwood harvested for export.

5 Forest management

Harvest (cont'd)

Volume of timber harvested in public and private forests (cont'd)

B) By administrative region (m^3 , 000s) (cont'd)

2005-2006

05.02.04

Administrative regions	Public forests ¹						Private forests ²					
	Fir, spruce, jack pine, larch	Other softwoods	Total softwoods	Poplars	Other hardwoods	Total hardwoods	Fir, spruce, jack pine, larch	Other softwoods	Total softwoods	Poplars	Other hardwoods	Total hardwoods
01 Bas-Saint-Laurent	744,2p	28,5p	772,6p	100,0p	170,6p	270,6p	488,9p	69,0p	557,9p	424,4p	236,9p	661,3p
02 Saguenay—Lac-Saint-Jean	7 491,0p	1,1p	7 492,0p	383,2p	413,7p	797,0p	473,9p	5,0p	478,9p	181,1p	74,9p	255,9p
03 Capitale-Nationale	676,0p	1,2p	677,2p	40,8p	98,5p	139,3p	300,1p	10,1p	310,2p	16,0p	169,6p	185,6p
04 Mauricie	2 145,1p	30,4p	2 175,5p	344,4p	325,9p	670,4p	593,8p	19,0p	612,8p	57,9p	94,0p	151,9p
05 Estrie	29,2p	1,0p	30,2p	4,4p	36,4p	40,8p	292,4p	82,4p	374,8p	232,7p	700,6p	933,2p
06 Montréal	-	-	-	-	-	-	-	-	-	-	-	-
07 Outaouais	488,1p	140,5p	628,7p	309,6p	491,7p	801,3p	69,5p	114,6p	184,0p	261,6p	463,2p	724,8p
08 Abitibi-Témiscamingue	2 571,3p	82,2p	2 653,5p	494,7p	259,2p	753,9p	203,2p	1,1p	204,4p	298,9p	39,9p	338,9p
09 Côte-Nord	3 872,9p	-	3 872,9p	44,7p	20,1p	64,9p	72,7p	0,1p	72,7p	4,0p	15,9p	19,9p
10 Nord-du-Québec	3 831,3p	-	3 831,3p	261,2p	10,8p	272,0p	38,6p	-	-	-	-	-
11 Gaspésie—Îles-de-la-Madeleine	1 112,7p	23,5p	1 136,2p	128,7p	73,5p	202,2p	308,2p	16,6p	324,8p	22,6p	35,9p	58,5p
12 Chaudière-Appalaches	119,5p	8,8p	128,4p	23,3p	36,6p	59,9p	802,4p	139,7p	942,1p	96,4p	380,2p	476,5p
13 Laval	-	-	-	-	-	-	-	-	-	-	-	-
14 Lanaudière	568,2p	12,4p	580,6p	118,7p	194,8p	313,5p	65,6p	19,8p	85,4p	63,4p	134,0p	197,4p
15 Laurentides	558,4p	33,1p	591,5p	93,7p	487,1p	580,9p	85,2p	14,9p	100,0p	12,9p	289,4p	302,3p
16 Montérégie	-	-	-	-	-	-	1,8p	12,3p	14,1p	1,5p	226,6p	228,1p
17 Centre-du-Québec	-	-	-	-	-	-	6,6p	5,1p	11,6p	3,1p	229,6p	232,7p
Total	24 208,0p	362,6p	24 570,6p	2 347,4p	2 619,1p	4 966,6p	3 802,8p	509,7p	4 273,8p	1 676,3p	3 090,7p	4 767,0p

1. Volume of timber harvested and actually measured in public forests, not including small volumes harvested for specific purposes (public utility works, mining activities, wildlife and leisure developments, etc.).

2. Estimated volume harvested in private forests by individual producers or producers' groups, including chips and firewood (approx. 1.9 million m^3), but excluding small volumes of roundwood harvested for export and volumes delivered to mills of 2 000 m^3 and less.

5 Forest management

Forest dues

Market value of standing timber in public forests, by quality and mean provincial unit rates, 2003-2004 and 2004-2005 (\$/m³)

05.03.06

Species group	Quality ²	Fiscal year (Period) ¹									
		2003-2004					2004-2005				
		1 st per.	2 nd per.	3 rd per.	4 th per.	Mean	1 st per.	2 nd per.	3 rd per.	4 th per.	Mean
Jack Pine	F (pole)	18,03	18,03	18,03	18,03	18,03	17,53	17,53	17,56	17,56	17,55
Fir, spruce, jack pine, larch	B (saw timber, pulp)	12,38	11,78	11,58	11,89	11,91	12,10	13,27	14,89	14,49	13,69
White pine	G (saw timber)	23,53	23,30	23,63	23,70	23,54	17,86	18,56	18,77	18,81	18,50
	H (saw timber)	15,65	15,50	15,72	15,77	15,66	11,49	11,94	12,08	12,10	11,90
	I (saw timber)	14,18	14,04	14,24	14,28	14,18	10,34	10,75	10,87	10,89	10,71
Red pine	F (pole)	24,50	24,50	24,50	24,50	24,50	24,79	24,79	24,84	24,84	24,82
	G (saw timber)	17,40	17,23	17,47	17,53	17,41	13,60	14,14	14,29	14,32	14,09
	H (saw timber)	11,63	11,52	11,68	11,71	11,63	8,62	8,96	9,06	9,07	8,93
	I (saw timber)	10,59	10,49	10,64	10,67	10,60	7,96	8,28	8,37	8,39	8,25
Hemlock, thuja	B (saw timber)	3,11	2,93	2,89	3,01	2,99	2,97	3,29	3,77	3,68	3,43
White and red pine, hemlock, thuja	C (pulp)	2,02	1,92	1,88	1,95	1,94	1,83	2,02	2,29	2,22	2,09
Oak, cherry, walnut, hickory	A (peeling)	60,63	58,95	57,01	56,56	58,29	55,64	56,07	56,38	54,84	55,73
	B (saw timber)	30,32	30,34	29,84	31,46	30,49	33,97	34,15	33,08	32,50	33,43
	C (saw timber)	11,79	11,80	11,60	12,23	11,85	13,80	13,88	13,44	13,21	13,58
Yellow birch, ash, basswood, elm	A (peeling)	57,01	55,44	53,62	53,19	54,82	55,22	55,65	55,95	54,43	55,31
	B (saw timber)	24,09	24,11	23,71	24,99	24,22	26,65	26,79	25,95	25,50	26,22
	C (saw timber)	8,70	8,71	8,56	9,03	8,75	10,47	10,52	10,19	10,01	10,30
White birch	A (peeling)	41,90	40,74	39,41	39,09	40,29	43,20	43,53	43,77	42,58	43,27
	B (saw timber)	16,27	16,28	16,01	16,88	16,36	17,01	17,10	16,57	16,27	16,74
	C (saw timber)	5,63	5,63	5,54	5,84	5,66	6,00	6,03	5,84	5,74	5,90
Sugar Maple	B (saw timber)	26,58	25,82	25,03	24,14	25,39	26,81	27,21	28,23	27,50	27,44
	C (saw timber)	6,28	6,10	5,92	5,70	6,00	6,41	6,51	6,75	6,58	6,56
Other hardwoods	B (saw timber)	10,27	10,28	10,11	10,65	10,33	11,41	11,47	11,11	10,92	11,23
	C (saw timber)	4,27	4,27	4,20	4,43	4,29	4,86	4,89	4,74	4,65	4,79
Poplars	B (saw timber, pulp)	5,30	5,69	8,38	11,35	7,68	8,82	11,48	9,03	7,08	9,10
All hardwoods except poplars	D, E (pulp)	2,95	3,11	3,49	4,19	3,44	4,09	4,59	4,11	3,70	4,12
All species	All qualities	11,30	10,85	10,91	11,45	11,13	11,30	12,48	13,59	13,08	12,61

1. First period, from April 1 to June 30; second period, from July 1 to September 30; third period, from October 1 to December 31; fourth period, from January 1 to March 31.

2. The letters A, B, C, D, E, F, G, H and I correspond to the quality assigned during wood grading based on species, diameter, length, and imperfections observed on the trunk and crosscuts.

5 Forest management

Forest dues (cont'd)

Market value of standing timber in public forests,

by quality and mean provincial unit rates, 2005-2006 (\$/m³)

05.03.07

Species group	Quality ²	Fiscal year (Period) ¹				
		2005-2006				
		1 st per.	2 nd per.	3 rd per.	4 th per.	Mean
Jack pine	F (pole)	18,44	18,44	18,49	18,44	18,45
Fir, spruce, jack pine, larch	B (saw timber, pulp)	14,48	14,47	14,00	13,52	14,12
White pine	G (saw timber)	27,92	27,76	27,66	26,72	27,52
	H (saw timber)	14,43	14,35	14,30	13,81	14,22
	I (saw timber)	11,05	10,99	10,94	10,57	10,89
Red pine	F (pole)	24,96	24,96	25,03	24,96	24,98
	G (saw timber)	20,66	20,54	20,46	19,76	20,35
	H (saw timber)	10,59	10,53	10,49	10,13	10,43
	I (saw timber)	8,38	8,33	8,30	8,02	8,26
Hemlock, thuja	B (saw timber)	3,47	3,45	3,32	3,19	3,35
White pine, red pine, hemlock, thuja	C (pulp)	2,07	2,06	1,98	1,90	2,00
Oak, cherry, walnut, hickory	A (peeling)	57,94	58,45	58,20	57,31	57,98
	B (saw timber)	29,15	28,67	28,67	28,58	28,77
	C (saw timber)	11,97	11,77	11,77	11,73	11,81
Yellow birch, ash, basswood, elm	A (peeling)	51,44	51,89	51,67	50,88	51,47
	B (saw timber)	21,90	21,54	21,54	21,47	21,61
	C (saw timber)	8,56	8,41	8,41	8,39	8,44
White birch	A (peeling)	41,37	41,73	41,55	40,92	41,39
	B (saw timber)	13,20	12,98	12,98	12,94	13,02
	C (saw timber)	4,78	4,70	4,70	4,68	4,71
Sugar maple	B (saw timber)	25,38	25,48	25,30	25,01	25,29
	C (saw timber)	5,86	5,88	5,84	5,78	5,84
Other hardwoods	B (saw timber)	9,92	9,76	9,76	9,73	9,79
	C (saw timber)	4,26	4,19	4,19	4,18	4,21
Poplars	B (saw timber, pulp)	6,64	6,51	5,41	6,64	6,30
All hardwoods (except poplars)	D, E (pulp)	3,30	3,27	3,11	3,27	3,24
All species	All qualities	13,15	13,13	12,65	12,34	12,82

1. First period, from April 1 to June 30; second period, from July 1 to September 30; third period, from October 1 to December 31; fourth period, from January 1 to March 31

2. The letters A, B, C, D, E, F, G, H and I correspond to the quality assigned during wood grading based on species, diameter, length, and imperfections observed on the trunk and crosscuts

5 Forest management

Seedling production

Seedling production (000s) by administrative region¹ and producer category

05.05.05

Administrative regions	Producers	2002-2003			2003-2004			2004-2005			2005-2006		
		Bareroot	Container	Total									
01 Bas-Saint-Laurent	PUN ²	7 338	9 257	16 595	7 128	6 632	13 760	8 000	7 668	15 668	6 811	7 415	14 226
	P&FC ³		10 860	10 860		6 756	6 756		8 788	8 788		5 639	5 639
	Total	7 338	20 117	27 455	7 128	13 388	20 516	8 000	16 456	24 456	6 811	13 054	19 865
02 Saguenay—Lac-Saint-Jean	PUN	3 642	2 904	6 546	3 094	2 745	5 839	2 680	2 449	5 129	2 505	3 175	5 680
	P&FC		21 188	21 188		15 780	15 780		17 284	17 284		19 577	19 577
	Total	3 642	19 203	27 734	3 094	19 203	21 619	2 680	19 733	22 413	2 505	22 752	25 257
03 Capitale-Nationale	PUN												
	P&FC		6 014	6 014		5 697	5 697		4 917	4 917		5 347	5 347
	Total		6 014	6 014		5 697	5 697		4 917	4 917		5 347	5 347
04 Mauricie et 17 Centre-du-Québec	PUN	1 122	2 227	3 349	1 222	1 884	3 106	1 910	2 007	3 917	1 950	2 691	4 641
	P&FC		15 797	15 797		11 439	11 439		18 640	18 640		11 174	11 174
	Total	1 122	18 024	19 146	1 222	13 323	14 545	1 910	20 647	22 557	1 950	13 865	15 815
05 Estrie	PUN												
	P&FC												
	Total												
07 Outaouais	PUN												
	P&FC		6 439	6 439		3 087	3 087		3 719	3 719		2 860	2 860
	Total		6 439	6 439		3 087	3 087		3 719	3 719		2 860	2 860
08 Abitibi-Témiscamingue	PUN	1 785	5 917	7 702	1 789	3 566	5 355	1 038	4 354	5 392	925	3 812	4 737
	P&FC		24 320	24 320		22 289	22 289		27 294	27 294		25 350	25 350
	Total	1 785	30 237	32 022	1 789	25 855	27 644	1 038	31 648	32 686	925	29 162	30 087
09 Côte-Nord	PUN												
	P&FC		11 783	11 783		10 865	10 865		7 285	7 285		6 619	6 619
	Total		11 783	11 783		10 865	10 865		7 285	7 285		6 619	6 619
11 Gaspésie—Îles-de-la-Madeleine	PUN												
	P&FC		4 787	4 787		4 438	4 438		2 185	2 185		4 508	4 508
	Total		4 787	4 787		4 438	4 438		2 185	2 185		4 508	4 508
12 Chaudière-Appalaches	PUN												
	P&FC		2 291	5 384	7 675	1 080	3 917	4 997	4 083	4 083		1 535	1 535
	Total		2 291	5 384	7 675	1 080	3 917	4 997	4 083	4 083		1 535	1 535
14 Lanaudière	PUN	2 145	3 771	5 916	2 415	2 827	5 242	2 604	2 922	5 526	2 344	2 715	5 059
	P&FC												
	Total	2 145	3 771	5 916	2 415	2 827	5 242	2 604	2 922	5 526	2 344	2 715	5 059
15 Laurentides	PUN												
	P&FC		12 533	12 533		18 806	18 806		6 168	6 168		10 992	10 992
	Total		12 533	12 533		18 806	18 806		6 168	6 168		10 992	10 992
Total	PUN	16 032	24 076	40 108	15 648	17 654	33 302	16 232	19 400	35 632	14 535	19 808	34 343
	P&FC	2 291	119 105	121 396	1 080	103 074	104 154		100 363	100 363		93 601	93 601
	Total	18 323	143 181	161 504	16 728	120 728	137 456	16 232	119 763	135 995	14 535	113 409	127 944

1. There is no seedling production in regions 06 (Montréal), 10 (Nord-du-Québec), 13 (Laval) and 16 (Montérégie).

2. PUN: Public nurseries.

3. P&FC: Private producers and forest companies.

5 Forest management

Summary of silvicultural treatments carried out

05.14.01

A) Public forests

Type of treatments	Area (2000-2001) ¹				Area (2001-2002) ¹						
	TSFMA		MRNF		Total (ha)	TSFMA ²		MRNF ³		Total (ha)	
	(ha)	(%)	(ha)	(%)		(ha)	(%)	(ha)	(%)		
Site preparation											
1) Scarifying	47 213r	100,0			47 213r	43 953r	100,0	13r	0,0	43 966r	
2) Clearing	9 073r	100,0			9 073r	5 576r	99,8	13r	0,2	5 589r	
3) Brushing	6r	9,2				2r	4,8	40r	95,2	42r	
4) Harrowing						2r	100,0			2r	
5) Controlled burning											
6) Removal of residual stems	408r	100,0			408r	672r	45,2	815r	199,9	1 487r	
Total	56 700r	99,9	59r	0,1	56 759r	50 206r	98,3	881r	1,7	51 087r	
Reforestation and seeding											
1) Planting	(ha)	47 955r	100,0			47 955r	42 844r	99,2	331r	0,8	43 176r
	(Seedlings, million)	84r	100,0			84r	74r	99,1	1r	0,9	74r
2) Reinforcement	(ha)	16 120r	100,0			16 120r	25 567r	99,4	161r	0,6	25 728r
	(Seedlings, million)	17r	100,0			17r	24r	98,7	0r	1,3	24r
3) Enrichment	(ha)	2 437r	100,0			2 437r	648r	100,0			648r
	(Seedlings, million)	1r	100,0			1r	0r	100,0			0r
4) Regeneration of SBBA ⁴	Natural (ha)										
	Artificial (ha)	10 519r	100,0			10 519r	12 129r	100,0			12 129r
	(Seedlings, million)	12r	100,0			12r	12r	100,0			12r
5) Seeding	(ha)	136r	100,0			136r					
Total	(ha)	77 167r	100,0			77 167r	81 188r	99,4	492r	0,6	81 680r
	(Seedlings, million)	113r	100,0			113r	110r	99,1	1r	0,9	111r
Noncommercial treatments											
1) Release (plantations)		19 467r	99,0			19 660r	17 309r	91,5	1 611r	8,5	18 920r
2) Release (natural regeneration)		2 461r	96,2			2 557r	2 345r	92,4	193r	7,6	2 538r
3) Pre-commercial thinning		94 254r	98,2			95 962r	81 196r	91,9	7 128r	8,1	88 324r
4) Phytosanitary control		23r	100,0			23r					
5) Fertilization											
6) Drainage		2 791r	100,0			2 791r	2 855r	100,0			2 855r
Total		118 995r	98,3			120 992r	103 705r	92,1	8 932r	7,9	112 637r
Commercial treatments											
1) a) Cutting with protection of regeneration and soils		209 871r	100,0			209 871r	184 308r	100,0			184 308r
b) Merchantable trees		862r	100,0			862r	2 027r	100,0			2 027r
c) Tall regeneration		333r	100,0			333r	64r	100,0			64r
d) With seed reserve		3 069r	100,0			3 069r	2 988r	100,0			2 988r
Subtotal (CPRS)		214 135r	100,0			214 135r	189 388r	100,0			189 388r
2) Block cutting		20 412r	100,0			20 412r	25 544r	100,0			25 544r
3) a) Selection cutting		42 040r	100,0			42 040r	41 712r	100,0			41 712r
b) Pre-selection cutting		7 079r	100,0			7 079r	4 967r	100,0			4 967r
Subtotal		49 119r	100,0			49 119r	46 678r	100,0			46 678r
4) Improvement cutting		2 363r	100,0			2 363r	970r	100,0			970r
5) Shelterwood cutting		4 191r	99,9			4 195r	4 134r	99,9	4r	0,1	4 138r
6) Commercial thinning		7 969r	97,4			8 182r	7 304r	97,2	213r	2,8	7 517r
7) a) Strip cutting		879r	100,0			879r	377r	100,0			377r
b) Patch cutting						0r	26r	100,0			26r
Subtotal		879r	100,0			879r	403r	100,0			403r
8) Harvesting in buffer strips		1 291r	100,0			1 291r	1 858r	100,0			1 858r
9) Other methods :											
a) Cutting for reforestation		10 602r	100,0			10 602r	12 128r	100,0			12 128r
b) Clear cutting - SBBA		9 890r	99,3			9 963r	7 826r	99,8	16r	0,2	7 842r
- roads		8 843r	100,0			8 843r	9 089r	100,0			9 089r
c) Salvage cutting - special plans 5		6 318r	100,0			6 318r	5 107r	100,0			5 107r
d) Other methods		4 173r	100,0			4 173r	5 797r	99,0	57r	1,0	5 854r
Subtotal		39 825r	99,8			39 898r	39 947r	99,8	73r	0,2	40 020r
10) Treatments carried out under the resource development program		2 574r	100,0			2 574r	1 173r	45,6			1 173r
Total		342 758r	99,9			343 048r	317 399r	99,9	290r	0,1	317 689r
Grand total		595 620r	99,6			597 965r	552 497r	98,1	10 596r	1,9	563 093r

1. Updated May 2, 2006.

2. TSFMA : Timber supply and forest management agreement holders.

3. MRNF : Ministère des Ressources naturelles et de la Faune.

4. SBBA : stacking, branching and bucking area.

5. Areas disturbed by natural disasters, etc.

5 Forest management

Summary of silvicultural treatments carried out (cont'd)

05.14.02

A) Public forests (cont'd)

Type of treatments	Area (2002-2003) ¹				Area (2003-2004) ¹							
	TSFMA		MRNF		Total		TSFMA ²		MRNF ³		Total	
	(ha)	(%)	(ha)	(%)	(ha)		(ha)	(%)	(ha)	(%)	(ha)	
Site preparation												
1) Scarifying	44 031r	100,0			44 031r		40 257r	100,0				40 257r
2) Clearing	6 475r	100,0			6 475r		4 752r	100,0				4 752r
3) Brushing	234r	33,2	470r	66,8	704r		42r	12,7	288r	87,3		330r
4) Controlled slash burning												
5) Controlled burning												
6) Removal of residual stems	716r	43,3	936r	56,7	1 652r		993r	95,5	47r	2,8		1 040r
Total	51 455r	97,3	1 406r	2,7	52 861r		46 044r	99,3	335r	0,7		46 379r
Reforestation and seeding												
1) Planting	(ha)	40 010r	99,2	303r	0,8	40 314r	30 782r	100,0				30 782r
	(Seedlings, million)	71r	99,2	1r	0,8	72r	52r	100,0				52r
2) Reinforcement	(ha)	26 850r	98,4	444r	1,6	27 294r	21 117r	100,0				21 117r
	(Seedlings, million)	28r	96,5	1r	3,5	29r	21r	100,0				21r
3) Enrichment	(ha)	1 263r	100,0			1 263r	1 848r	100,0				1 848r
	(Seedlings, million)	0r	100,0			0r	1r	100,0				1r
4) Regeneration of SBBA ⁴	Natural (ha)	7 818r	100,0			7 818r	6 707r	100,0				6 707r
	Artificial (ha)	9r	100,0			9r	9r	100,0				9r
5) Seeding	(ha)	16r				16r						
Total	(ha)	75 958r	99,0	747r	1,0	76 705r	60 454r	100,0				60 454r
	(Seedlings, million)	108r	98,5	2r	1,5	110r	83r	100,0				83r
Noncommercial treatments												
1) Release (plantations)		15 332r	90,7	1 569r	9,3	16 901r	8 119r	88,6	1 042r	11,4		9 161r
2) Release (natural regeneration)		2 961r	91,5	275r	8,5	3 236r	2 099r	90,2	227r	9,8		2 326r
3) Pre-commercial thinning		88 140r	95,6	4 062r	4,4	92 202r	86 593r	97,3	2 375r	2,7		88 968r
4) Phytosanitary control				318r	100,0	318r			1 301r	100,0		1 301r
5) Fertilization							99r	100,0				99r
6) Drainage		3 312r	100,0			3 312r	3 520r	100,0				3 520r
Total		109 745r	94,6	6 224r	5,4	115 969r	100 430r	95,3	4 945r	4,7		105 375r
Commercial treatments												
1) a) Cutting with protection of regeneration and soils		177 914r	100,0			177 914r	125 092r	100,0				125 092r
b) Merchantable trees		2 498r	100,0			2 498r	908r	100,0				908r
c) Tall regeneration		416r	100,0			416r	558r	100,0				558r
d) With seed reserve		13 582r	100,0			13 582r	1 576r	100,0				1 576r
Subtotal (CPRS)		194 411r	100,0			194 411r	128 133r	100,0				128 133r
2) Block cutting		36 469r	100,0			36 469r	61 878r	100,0				61 878r
3) a) Selection cutting		30 672r	100,0			30 672r	26 826r	100,0				26 826r
b) Pre-selection cutting		10 175r	100,0			10 175r	1 258r	100,0				1 258r
Subtotal		40 847r	100,0			40 847r	28 084r	100,0				28 084r
4) Improvement cutting		451r				451r						
5) Shelterwood cutting		5 191r	100,0			5 191r	3 882r	100,0				3 882r
6) Commercial thinning		7 572r	97,3	209r	2,7	7 781r	4 712r	96,5	173r	3,5		4 885r
7) a) Strip cutting		576r	100,0			576r	529r	100,0				529r
b) Patch cutting												
Subtotal		576r	100,0			576r	529r	100,0				529r
8) Harvesting in buffer strips		1 120r	100,0			1 120r	730r	100,0				730r
9) Other methods :												
a) Cutting for reforestation		7 819r	100,0			7 819r	6 707r	100,0				6 707r
b) Clear cutting - SBBA		8 882r	100,0			8 882r	7 565r	100,0				7 565r
- Roads		8 780r	100,0			8 780r	6 886r	100,0				6 886r
c) Salvage cutting - special plans ⁵		8 837r	100,0			8 837r	4 575r	100,0				4 575r
d) Other methods		7 391r	99,1	66r	0,9	7 457r	5 366r	99,8	10r	0,2		5 376r
Subtotal		41 707r	99,8	66r	0,2	41 773r	31 098r	100,0	10r	0,0		31 108r
10) Treatments carried out under the resource development program		1 448r	100,0			1 448r	746r	100,0				746r
Total		329 791r	99,9	275r	0,1	330 066r	259 792r	99,9	183r	0,1		259 975r
Grand total		566 949r	98,5	8 652r	1,5	575 602r	466 721r	98,8	5 463r	1,2		472 184r

1. Updated May 2, 2006.

2. TSFMA : Timber supply and forest management agreement holders.

3. MRNF : Ministère des Ressources naturelles et de la Faune.

4. SBBA : stacking, branching and bucking area.

5. Areas disturbed by natural disasters, etc.

N.B.: The CPRS was approx. 50 000 ha short in 2003-2004.

5 Forest management

Summary of silvicultural treatments carried out (cont'd)

05.14.03

A) Public forests (cont'd)

Type of treatments	Area (2004-2005) ¹				Area (2005-2006) ^{1a}			
	TSFMA ³ (ha)	MRNF ⁴ (ha)	Total (ha)	TSFMA ² (ha)	MRNF ³ (ha)	Total (ha)		
Site preparation								
1) Scarifying	37 294r	100,0		37 294r	48 495p	100,0		48 495p
2) Clearing	3 488r	100,0		3 488r	3 688p	100,0		3 688p
3) Brushing	67r	12,3	477r	87,7	544r			
4) Harrowing								
5) Controlled burning								
6) Removal of residual stems	379r	84,2	71r	15,8	450r			
Total	41 228r	98,7	548r	1,3	41 776r	52 183p	100,0	52 183p
Reforestation and seeding								
1) Planting	(ha)	28 235r	100,0		28 235r	37 174p	100,0	37 174p
	(Seedlings, million)	49r	100,0		49r	68p	100,0	68p
2) Reinforcement	(ha)	20 692r	100,0		20 692r	16 709p	100,0	16 709p
	(Seedlings, million)	21r	100,0		21r	25p	100,0	25p
3) Enrichment	(ha)	483r	100,0		483r	1 054p	100,0	1 054p
	(Seedlings, million)	0r	100,0		0r	0p	100,0	0p
4) Regeneration of SBBA ⁵	Natural (ha)	2 815r	100,0		2 815r	3 000p	100,0	3 000p
	Artificial (ha)	4r	100,0		4r	4p	100,0	4p
	(Seedlings, million)	254r	100,0		254r	343p	100,0	343p
5) Seeding	(ha)	52 478r	100,0		52 478r	58 280p	100,0	58 280p
Total	(ha)	74r	100,0		74r	98	100,0	98p
Noncommercial treatments								
1) Release (plantations)	9 619r	99,8	18r	0,2	9 637r	10 294p	100,0	10 294p
2) Release (natural regeneration)	3 992r	100,0			3 992r	2 427p	100,0	2 427p
3) Pre-commercial thinning	82 744r	98,1	1 583r	1,9	84 327r	92 746p	100,0	92 746p
4) Phytosanitary control	12r	100,0			12r			
5) Fertilization	211r	48,4	225r	51,6	436r			
6) Drainage	3 844r	100,0			3 844r	5 171p	100,0	5 171p
Total	100 422r	98,2	1 826r	1,8	102 248r	110 639p	100,0	110 639p
Commercial treatments								
1) a) Cutting with protection of regeneration and soils	99 172r	100,0			99 172r	180 062p	100,0	180 062p
b) Merchantable trees	2 773r	100,0			2 773r	2 037p	100,0	2 037p
c) Tall regeneration	1 402r	100,0			1 402r	64p	100,0	64p
d) With seed reserve	940r				940r	63p		63p
Subtotal (CPRS)	104 287r	100,0			104 287r	182 226p	100,0	182 226p
2) Block cutting	98 236r	100,0			98 236r	94 190p	100,0	94 190p
3) a) Selection cutting	21 733r	100,0			21 733r	12 116p	100,0	12 116p
b) Pre-selection cutting	3 130r	100,0			3 130r	1 241p	100,0	1 241p
Subtotal	24 863r	100,0			24 863r	13 357p	100,0	13 357p
4) Improvement cutting	46r	100,0			46r			
5) Shelterwood cutting	2 484r	100,0			2 484r	831p	100,0	831p
6) Commercial thinning	7 012r	100,0			7 012r	5 825p	100,0	5 825p
7) a) Strip cutting	376r	100,0			376r	128p	100,0	128p
b) Patch cutting								
Subtotal	376r	100,0			376r	128p	100,0	128p
8) Harvesting in buffer strips								
9) Other methods :								
a) Cutting for reforestation	2 815r	100,0			2 815r	2 800p	100,0	2 800p
b) Clear cutting - SBBA	7 510r	100,0			7 510r	7 500p	100,0	7 500p
- Roads	6 333r	100,0			6 333r	6 000p	100,0	6 000p
c) Salvage cutting - special plans 6	2 859r	100,0			2 859r	2 500p	100,0	2 500p
d) Other methods	12 936r	99,8	29r	0,2	12 965r	10 000p	100,0	10 000p
Subtotal	32 452r	99,9	29r	0,1	32 481r	28 800p	100,0	28 800p
10) Treatments carried out under the resource development program	51r	100,0			51r			
Total	269 807r	100,0	29r	0,0	269 836r	325 356p	100,0	325 356p
Grand total	463 935r	99,5	2 403r	0,5	466 338r	546 458p	100,0	546 458p

1. Updated May 2, 2006.

1a. According to the state of silvicultural treatments from 2005 up to April 28, 2006.

2. TSFMA : Timber supply and forest management agreement holders.

3. MRNF : Ministère des Ressources naturelles et de la Faune.

4. SBBA : stacking, branching and bucking area.

5. Areas disturbed by natural disasters, etc.

N.B. : The CPRS was approx. 65 000 ha short in 2004-2005, and in 2005-2006, it has been estimated like the other cuts.

5 Forest management

Summary of silvicultural treatments carried out (cont'd)

05.14.04

B) Private forests¹

Type of treatments	Area (2001-2002) (ha)	Area (2002-2003) (ha)	Area (2003-2004) (ha)	Area (2004-2005) ² (ha)	Area (2005-2006) ² (ha)
Site preparation					
1) Scarifying	1 044	1 059	676	609	542p
2) Clearing	2 957	2 983	3 595	3 188	3 663p
3) Ploughing and harrowing	247	288	220	164	193p
4) Brushing					
- mechanical	3 871	3 278	3 127	2 955	2 680p
- chemical					
5) Removal of residual stems	432	484	528	592	450p
6) Other treatments	671	1 018	877	665	656p
Total	9 221	9 110	9 022	8 173	8 185p
Reforestation					
1) Planting	10 607	10 517	9 056	8 672	7 967p
2) Reinforcement	1 555	1 269	1 368	1 193	1 109p
3) Enrichment	103	174	252	216	159p
Total	12 264	11 959	10 675	10 082	9 235p
(Seedlings, million)	27	26	23	22	20r
Noncommercial treatments					
1) Release (plantations)					
- mechanical	9 500	9 414	9 535	11 413	11 114p
- chemical	114				
2) Release (natural regeneration)					
- mechanical	977	482	554	325	256p
- chemical					
3) Pre-commercial thinning	7 829	5 587	5 011	6 013	5 745p
4) Phytosanitary control	510	623	536	467	568p
5) Drainage	1 677	1 530	1 203	825	514p
Total	20 608	17 635	16 839	19 043	18 197p
Commercial treatments					
1) Selection cutting	2 442	2 228	2 268	1 745	1 933p
2) Shelterwood cutting	489	450	427	531	620p
3) Strip and patch cutting	23	7	11	22	9p
4) Commercial thinning	4 437	4 713	4 656	4 636	5 620p
5) Other methods	3 096	2 596	2 473	4 932	5 236p
Total	10 485	9 994	9 835	11 866	13 418p
Grand total	52 578	48 698	46 371	49 164	49 034p

1. All types of treatments are also carried out annually by woodlot owners with personal or business entitlement, beyond the scope of these subsidy programs.

These treatments are not included in the present data.

2. The data include all of the programs that have been managed by agencies for private forest development

(Example : PMVFP, specific expectations, employment creation programs, section 2, faunal projects, etc.)

Source : The private forest data are drawn from the regular program (PFDSP) to which the rexforêt program is added for the fiscal years 2002-2003, 2003-2004, and 2004-2005

6 Use of forests for educational, leisure, research and experimental purposes

Highlights

Teaching and research forests (TRF), September 2006		06.00.01
Teaching and research forests (no.)		16
Area (ha, 000s)		38,7

N.B. : The Duchesnay Forest Station is now under the responsibility of SÉPAQ.

Experimental forests (EF), September 2006

Permanent (no.)	197
Temporary (no.)	414
Total (no.)	611
Area (ha, 000s)	24

Principal wildlife-related activities in 2000

	Participants (no.)	Expenditures (\$M)	Jobs (no.)	Added value (\$M)
Fishing ¹	813 600	1 047,8	9 754	457,9
Hunting ¹	408 000	308,4	3 322	157,3
Outdoor activities	2 350 600	1 269,5	15 656	700,7
Wildlife-related travel ¹	1 211 800	303,4	3 379	162,6

1. Non-residents' expenditures, jobs and added value are not included because they are not available.

7 Non-timber use

Non-timber forest products (NTFPs)

Highlights

Volume and value of large-container maple production, farm sales and home consumption

07.00.01

		2004	2005
Bulk syrup	(l, 000s)	21 619	22 932p
	(\$, 000s)	103 077	129 646p
Direct sales by producers	(l, 000s)	3 150	2 866p
	(\$, 000s)	27 356	24 472p
Producers' consumption	(l, 000s)	281	281p
	(\$, 000s)	2 444	2 403p
Bulk syrup (stock)	(l, 000s)	5 147	..
Marketed and self-sufficient production	(l, 000s)	25 050	26 079p
	(\$, 000s)	132 877	156 521p
Total production	(l, 000s)	30 198	..

Sources : Ministère de l'Agriculture, des Pêcheries et de l'Alimentation.

Institut de la statistique du Québec

Sale of wild blueberries from blueberry farms and forests in Québec

Year	Fresh fruit sales			Sales to processors			Total sales	
	Farms	Forests	Total	Farms	Forests	Total		
2004	Quantity (t)	181,4	226,8	408,2	16 147,9	3 855,5	20 003,4	20 411,6
	Value (\$, 000s)	500,0	750,0	1 250,0	21 360,0	6 800,0	28 160,0	29 410,0
2005	Quantity (t)	181,4	272,2	453,6	14 968,5	4 690,1	19 658,6	20 112,2
	Value (\$, 000s)	500,0	870,0	1 370,0	26 400,0	10 340,0	36 740,0	38 110,0

Sources : Ministère de l'Agriculture, des Pêcheries et de l'Alimentation du Québec.

Institut de la statistique du Québec

Bulk Christmas tree production

	2004		2005		
	Number	Value (\$)	Number	Value (\$)	
Québec	18 795 000	48 773 000	19 200 000e	49 749 000	

Source : Background National Forestry Database Program, Compendium of Canadian Forestry Statistics, forest product sector.

Québec's essential oil industry

Year	Number of plants ¹	Imports ² (\$, 000s)	Exports ² (\$, 000s)	Re-Exports ^{2,3} (\$, 000s)
2004	13	185	38	0
2005	12	228	31	0

1. Directory of essential oil producers in Québec (Essential oils: 3771.010).

2. Statistics Canada – SH330130 – Essential oils.

3. "Re-Export" means export of merchandise produced from imported raw materials.

8 Logging Highlights

Economic indicators for the Québec forestry and logging industry (NAICS 113)

08.00.01

	1999	2004
Total jobs (no.)	11 120	12 747
Total salaries and wages (\$, 000s)	255 540	423 391
Value of shipments and other revenue (\$, 000s)	2 258 181	2 889 756
Value added ¹ to total activity (\$, 000s)	712 566	1 302 709
Capital expenditures and repairs (\$, 000s)	213 700	154 000

1. Added value includes purchase of services.

Sources : Statistics Canada : 61-205, 61-206 and CANSIM.

9 Timber use

Highlights

09.00.01

Consumption of Québec's primary wood

Processing plants in 2005 (m³, 000s)

By species	
• FSPL	54 278
• Other softwoods	2 233
• Poplars	5 150
• Hardwoods	9 026
• Total	70 686

By type of timber use	
• Roundwood	43 799
• Chips	18 919
• Sawdust, shavings, wood residues and bark	7 969
• Total	70 686

By source	
• Public forests	31 013
• Private forests	7 267
• Exchange between mills	24 081
• Outside Québec	8 326
• Total	70 686

By product	
• Pulp and paper	24 188
• Saw timber	35 989
• Peelers	280
• Panelboard	6 504
• Other	3 725
• Total	70 686

Balance of Québec's bark in 2005 (BDMT, 000s)

Estimated production	3 545
Use	3 470
Projects ¹	75

1. Steam boiler, pyrolysis, electricity generation and cogeneration projects.

Trade with markets outside Québec in 2005 (m³, 000s)

Region or country	Receipts	Shipments
Ontario		
• Softwoods	843,2	458,5
• Hardwoods	1 089,3	11,2
Other provinces		
• Softwoods	1 007,3	750,9
• Hardwoods	478,4	114,2
United States and other countries		
• Softwoods	3 022,0	1 111,3
• Hardwoods	1 885,6	63,6
Total		
• Softwoods	4 872,5	2 320,7
• Hardwoods	3 453,2	189,0

Principal products of Québec's primary wood processing plants

	2005
Pulp destined for sale (BDMT)	1 902 382
Paper (BDMT)	6 561 669
Paperboard (BDMT)	1 558 082
Insulation board (mt)	76 980
Particle board (m ³)	4 246 674
Veneer (m ²)	89 835 752
Shingles (squares)	661 301
Poles (units)	65 493
Mulching material (BDMT)	6 339
Charcoal (mt)	3 077
Saw timber (bd ft, 000s)	8 006 218
Other products (bd ft, 000s) ¹	111 681

1. Other products: fuel pellets, electricity, turning and shaping, laths, etc.

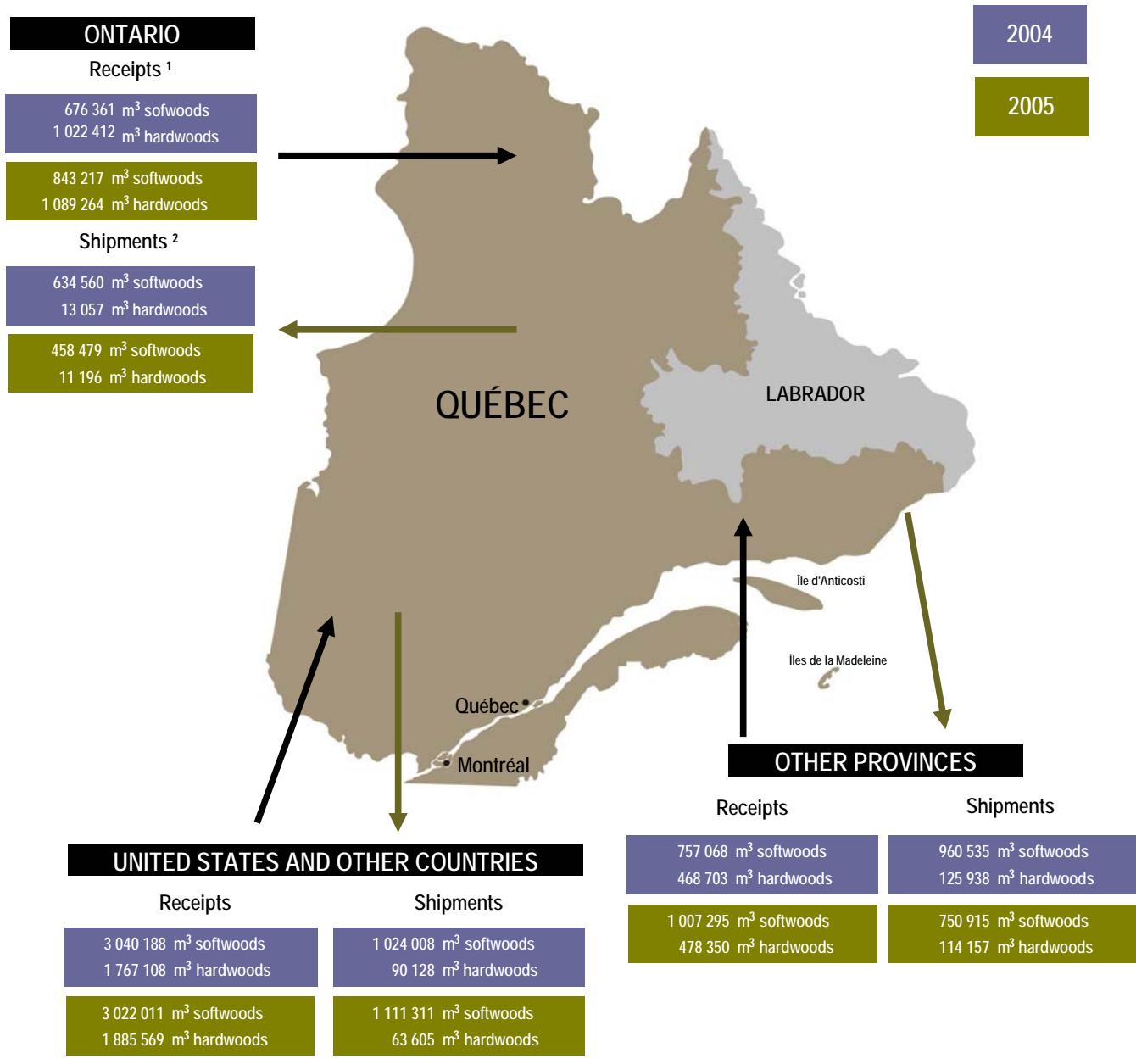
FSPL chip stocks at Québec's sawmills

	December 1999	December 2005
FSPL chips (BDMT, 000s)	81,1	42,3

9 Timber use

Trade with markets outside Québec

09.05.01



1. Receipts of roundwood, chips, sawdust and bark from outside Québec.

2. Shipments of chips, sawdust and bark outside Québec, estimated destination breakdown.

Source : Forestry Register, Division de l'évaluation de la demande, DDIPF, ministère des Ressources naturelles et de la Faune.

10 Wood industries

Highlights

10.00.01

Québec's primary wood processing plants in 2005

Lumber	410
Pulp and paper ¹	38
Veneer and plywood	13
Particle board	12
Wood turning and shaping	8
Energy production and cogeneration ²	16
Other	2
Total	499

1. The remaining 27 pulp, paper and paperboard mills do not consume round-wood, chips, sawdust or shavings.

2. Mills producing electricity, pellets and fuel chips.

Source : Forestry Register, Ministère des Ressources naturelles et de la Faune.

Establishments by wood processing groups and sub-groups in 2004

Wood product manufacturing	718
Paper manufacturing	200
Total	918

Source : Statistics Canada (According to the annual report on logging and manufacturing).

Economic indicators for Québec's wood products industry (NAICS 321) in 2004

Jobs (no.)	37 473
Salaries and wages (\$, 000s)	1 412 299
Value of shipments and other revenue (\$, 000s)	9 758 118
Value added ¹ to total activity (\$, 000s)	4 091 534
Capital expenditures and repairs (\$, 000s)	712 100

1. The value added to total activity has been estimated.

Sources : Statistics Canada (According to the annual report on logging and manufacturing).

Institut de la statistique du Québec, Investissements privés et publics au Québec

Québec's lumber production (m³, 000s)

2002	• Softwoods	19 228
	• Hardwoods	1 162
2003	• Softwoods	18 894
	• Hardwoods	1 083
2004	• Softwoods	19 414
	• Hardwoods	1 112
2005	• Softwoods	17 599
	• Hardwoods	1 008
2006	• Softwoods	16 302
	• Hardwoods	934

Source: Statistics Canada: 35-003.

Source of wood used by Québec's sawmills in 2005 (m³, 000s)

Public forests	26 566,0
Private forests	4 698,1
Other mills	45,8
Outside Québec	4 679,3
Total	35 989,2

Source : Forestry Register, Ministère des Ressources naturelles et de la Faune.

Joint production of Québec's sawmills in 2005 (BDMT, 000s)

Chips	7 237
Sawdust and shavings	2 079
Bark	2 750
Total	12 066

Source : Forestry Register, Ministère des Ressources naturelles et de la Faune.

Québec's lumber shipments in 2005 (m³, 000s)

Softwoods	15 556,1
Hardwoods	1 846,6
Total	17 402,7

Source : Forestry Register, Ministère des Ressources naturelles et de la Faune.

Destination of Québec's lumber shipments (%)

	2005		2006	
	Softwoods	Hardwoods	Softwoods	Hardwoods
Canada	52,7	55,5	54,1	59,0
United States	47,0	32,7	45,3	27,0
Overseas	0,3	11,8	0,6	14,0
Total	100,0	100,0	100,0	100,0

Sources : Statistics Canada and Ministère des Ressources naturelles et de la Faune du Québec (Forestry register).

10 Wood industries

Highlights (cont'd)

Economic indicators for Québec's sawmills and wood preservation industries (NAICS 32111) in 2004

Jobs (no.)	15 652
Salaries and wages (\$, 000s)	648 791
Value of shipments and other revenue (\$, 000s)	4 459 252
Value added ¹ to total activity (\$, 000s)	1 621 705
Capital expenditures and repairs (\$, 000s)	..

1. The value added to the total activity has been estimated.

Economic indicators for Québec's sawmills, excluding shingle mills (NAICS 321111) in 2004

Jobs (no.)	14 674
Salaries and wages (\$, 000s)	612 941
Value of shipments and other revenue (\$, 000s)	4 232 392
Value added ¹ to total activity (\$, 000s)	1 539 680
Capital expenditures and repairs (\$, 000s)	..

1. The value added to the total activity has been estimated.

Sources : Statistics Canada (According to the annual report on logging and manufacturing). Institut de la statistique du Québec, Investissements privés et publics au Québec

Volume and value of Québec's lumber exports by destination in 2006

	Volume (m ³ , 000s)	Value (\$, millions)
United States and Mexico	7 687,2	1 284,5
Europe	108,3	105,3
Middle East and Africa	87,1	40,5
Asia and Oceania	69,5	49,6
Central and South America	9,6	3,6
Total	7 961,7	1 483,5

Source : Institut de la statistique du Québec.

Economic indicators for Québec's veneer, plywood and reconstituted wood industry (NAICS 3212) in 2004

Jobs (no.)	6 207
Salaries and wages (\$, 000s)	248 794
Value of shipments and other revenue (\$, 000s)	2 241 889
Value added ¹ to total activity (\$, 000s)	1 123 772
Capital expenditures and repairs (\$, 000s)	..

1. The value added to the total activity has been estimated.

Source : Statistics Canada (According to the annual report on logging and manufacturing).

Economic indicators for Québec's particle board industry

	2005	2006
Jobs (no.)	2 310	2 295
Mills (no.)	14	14
Production capacity (m ³ , 000s/year)	5 012	4 727
Capital expenditures and repairs (\$, 000s)

Sources : Ministère des Ressources naturelles et de la Faune, Direction du développement de l'industrie des produits forestiers (internal compilation).

Economic indicators for Québec's waferboard industry (NAICS 321217) ¹ in 2004

Jobs (no.)	667
Salaries and wages (\$, 000s)	36 518
Value of shipments and other revenue (\$, 000s)	611 468
Value added ² to total activity (\$, 000s)	418 476

1. NAICS 321217 corresponds to the oriented strand board (OSB) industry.

2. The value added to the total activity has been estimated.

Source : Statistics Canada (According to the annual report on logging and manufacturing).

Québec's balance of trade ¹ in the wood products sector ² (\$, million)

Wood, charcoal and wood products	Exports	Imports	Balance of trade
2004	4 685,2	992,0	3 693,2
2005	4 296,2	1 000,7	3 295,5
2006	3 639,9	981,6	2 658,3

1. Balance of trade of commercial goods with international destinations.

2. [Product descriptors consistent with the Harmonized Commodity Description and Coding System \(World Customs Organization\)](#).

Source : Institut de la statistique du Québec, according to the Standard Classification of Goods

Québec's balance of trade ¹ in the wood products sector ² (\$, million)

Wood product manufacturing (NAICS 321)	Exports	Imports	Balance of trade
2004	4 588,3	611,7	3 976,6
2005	4 201,2	632,0	3 569,2
2006	3 548,1	635,9	2 912,2

1. Balance of trade of commercial goods with international destinations.

2. [According to NAICS](#).

Source : Institut de la statistique du Québec.

10 Wood industries

Highlights

10.00.01 (2)

Québec's primary wood processing plants in 2005

Lumber	410
Pulp and paper ¹	38
Veneer and plywood	13
Particle board	12
Wood turning and shaping	8
Energy production and cogeneration ²	16
Other	2
Total	499

1. The remaining 27 pulp, paper and paperboard mills do not consume round-wood, chips, sawdust or shavings.

2. Mills producing electricity, pellets and fuel chips.

Source : Forestry Register, Ministère des Ressources naturelles et de la Faune.

Establishments by wood processing groups and sub-groups

(including furniture and printing) in 2004

Wood product manufacturing	718
Furniture and related product manufacturing	650
Paper manufacturing	200
Printing and related support activities	447
Total	2 015

Source : Statistics Canada (According to the annual report on logging and manufacturing).

Economic indicators for Québec's wood products industry (NAICS 321) in 2004

Jobs (no.)	37 473
Salaries and wages (\$, 000s)	1 412 299
Value of shipments and other revenue (\$, 000s)	9 758 118
Value added ² to total activity (\$, 000s)	4 091 534
Capital expenditures and repairs (\$, 000s)	712 100

1. The value added to the total activity has been estimated.

Sources : Statistics Canada (According to the annual report on logging and manufacturing).

Institut de la statistique du Québec, Investissements privés et publics au Québec

Economic indicators for Québec's furniture and related product manufacturing industry (NAICS 337) in 2004

Jobs (no.)	29 811
Salaries and wages (\$, 000s)	974 926
Value of shipments and other revenue (\$, 000s)	3 846 467
Value added ¹ to total activity (\$, 000s)	2 164 431
Capital expenditures and repairs (\$, 000s)	109 700

1. The value added to the total activity has been estimated.

Source : Statistics Canada (According to the annual report on logging and manufacturing).

Québec's lumber production (m³, 000s)

2002	• Softwoods	19 228
	• Hardwoods	1 162
2003	• Softwoods	18 894
	• Hardwoods	1 083
2004	• Softwoods	19 414
	• Hardwoods	1 112
2005	• Softwoods	17 599
	• Hardwoods	1 008
2006	• Softwoods	16 302
	• Hardwoods	934

Source : Statistics Canada : 35-003.

Québec's furniture and related product production industry (NAICS 337) (\$, 000s)

2002	4 135 690
2003	4 087 732
2004	4 068 224
2005	4 197 082

Source : Institut de la statistique du Québec (principal statistics on the total activity)

Source of wood used by Québec's sawmills in 2005 (m³, 000s)

Public forests	26 566,0
Private forests	4 698,1
Other mills	45,8
Outside Québec	4 679,3
Total	35 989,2

Source : Forestry Register, Ministère des Ressources naturelles et de la Faune.

Joint production of Québec's sawmills in 2005 (BDMT, 000s)

Chips	7 237
Sawdust and shavings	2 079
Bark	2 750
Total	12 066

Source : Forestry Register, Ministère des Ressources naturelles et de la Faune.

Québec's lumber shipments in 2005 (m³, 000s)

Softwoods	15 556,1
Hardwoods	1 846,6
Total	17 402,7

Source : Forestry Register, Ministère des Ressources naturelles et de la Faune.

10 Wood industries

Highlights (cont'd)

10.00.01 (2)

Destination of Québec's lumber shipments in 2006 (%)

	Softwoods	Hardwoods
Canada	54,1	59,0
United States	45,3	27,0
Overseas	0,6	14,0
Total	100,0	100,0

Source : Statistics Canada and Ministère des Ressources naturelles et de la Faune du Québec (Forestry register).

Economic indicators for Québec's sawmills and wood preservation industries (NAICS 32111) in 2004

Jobs (no.)	15 652
Salaries and wages (\$, 000s)	648 791
Value of shipments and other revenue (\$, 000s)	4 459 252
Value added ¹ to total activity (\$, 000s)	1 621 705
Capital expenditures and repairs (\$, 000s)	..

1. The value added to the total activity has been estimated.

Sources : Statistics Canada (According to the annual report on logging and manufacturing). Institut de la statistique du Québec, Investissements privés et publics au Québec

Economic indicators of Québec's sawmills, excluding shingle mills (NAICS 321111) in 2004

Jobs (no.)	14 674
Salaries and wages (\$, 000s)	612 941
Value of shipments and other revenue (\$, 000s)	4 232 392
Value added ¹ to total activity (\$, 000s)	1 539 680
Capital expenditures and repairs (\$, 000s)	..

1. The value added to the total activity has been estimated.

Source : Statistics Canada (According to the annual report on logging and manufacturing).

Volume and value of Québec's lumber exports by destination in 2006

	Volume (m ³ , 000s)	Value (\$, millions)
United States and Mexico	7 687,2	1 284,5
Europe	108,3	105,3
Middle East and Africa	87,1	40,5
Asia and Oceania	69,5	49,6
Central and South America	9,6	3,6
Total	7 961,7	1 483,5

Source : Institut de la statistique du Québec.

Economic indicators for Québec's veneer, plywood and reconstituted wood industry (NAICS 3212)¹ in 2004

Jobs (no.)	6 207
Salaries and wages (\$, 000s)	248 794
Value of shipments and other revenue (\$, 000s)	2 241 889
Value added ² to total activity (\$, 000s)	1 123 772
Capital expenditures and repair (\$, 000s)	..

1. The value added to the total activity has been estimated.

Source : Statistics Canada (According to the annual report on logging and manufacturing).

Economic indicators for Québec's particle board industry

	2005	2006
Jobs (no.)	2 310	2 295
Mills (no.)	14	14
Production capacity (m ³ , 000s/year)	5 012	4 727
Capital expenditures and repairs (\$, 000s)

Source : Ministère des Ressources naturelles et de la Faune, Direction du développement de l'industrie des produits forestiers (internal compilation)

Economic indicators for Québec's waferboard industry (NAICS 321217)¹ in 2004

Jobs (no.)	667
Salaries and wages (\$, 000s)	36 518
Value of shipments and other revenue (\$, 000s)	611 468
Value added ² to total activity (\$, 000s)	418 476

1. NAICS 321217 corresponds to the oriented strand board (OSB) industry.

2. The value added to the total activity has been estimated.

Source : Statistics Canada (According to the annual report on logging and manufacturing).

Québec's balance of trade¹ in the furniture² manufacturing sector (\$, million)

Furniture and related product manufacturing	Exports	Imports	Balance of trade
2004	1 707,7	564,3	1 143,4
2005	1 515,8	630,0	885,8
2006	1 368,9	743,1	625,8

1. Balance of trade of commercial goods with international destinations.

2. According to NAICS.

Source : Institut de la statistique du Québec.

Québec's balance of trade¹ in the wood and furniture² manufacturing sector (\$, million)

Wood product and furniture and related product manufacturing	Exports	Imports	Balance of trade
2004	6 296,0	1 176,0	5 120,0
2005	5 717,0	1 262,0	4 455,0
2006	4 917,0	1 379,0	3 538,0

1. Balance of trade of commercial goods with international destinations.

2. According to NAICS.

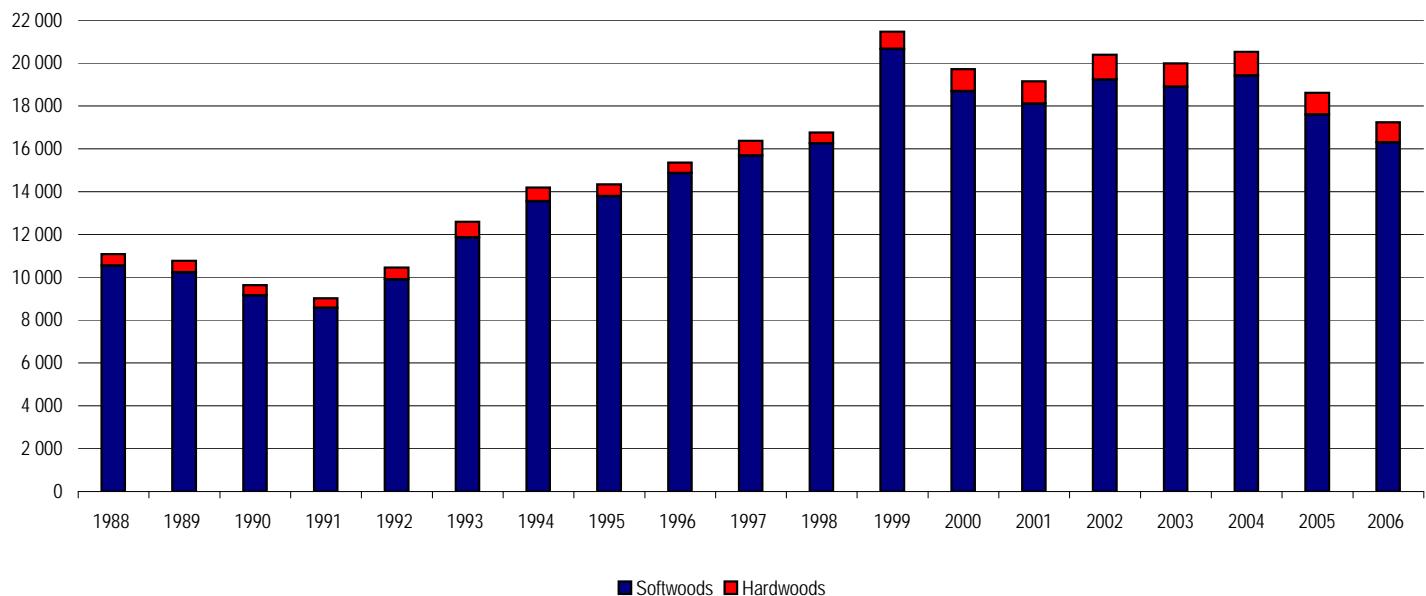
Source : Institut de la statistique du Québec.

10 Wood industries

Overview

Timber production in Québec (softwoods and hardwoods) (m³, 000s)

10.01.09



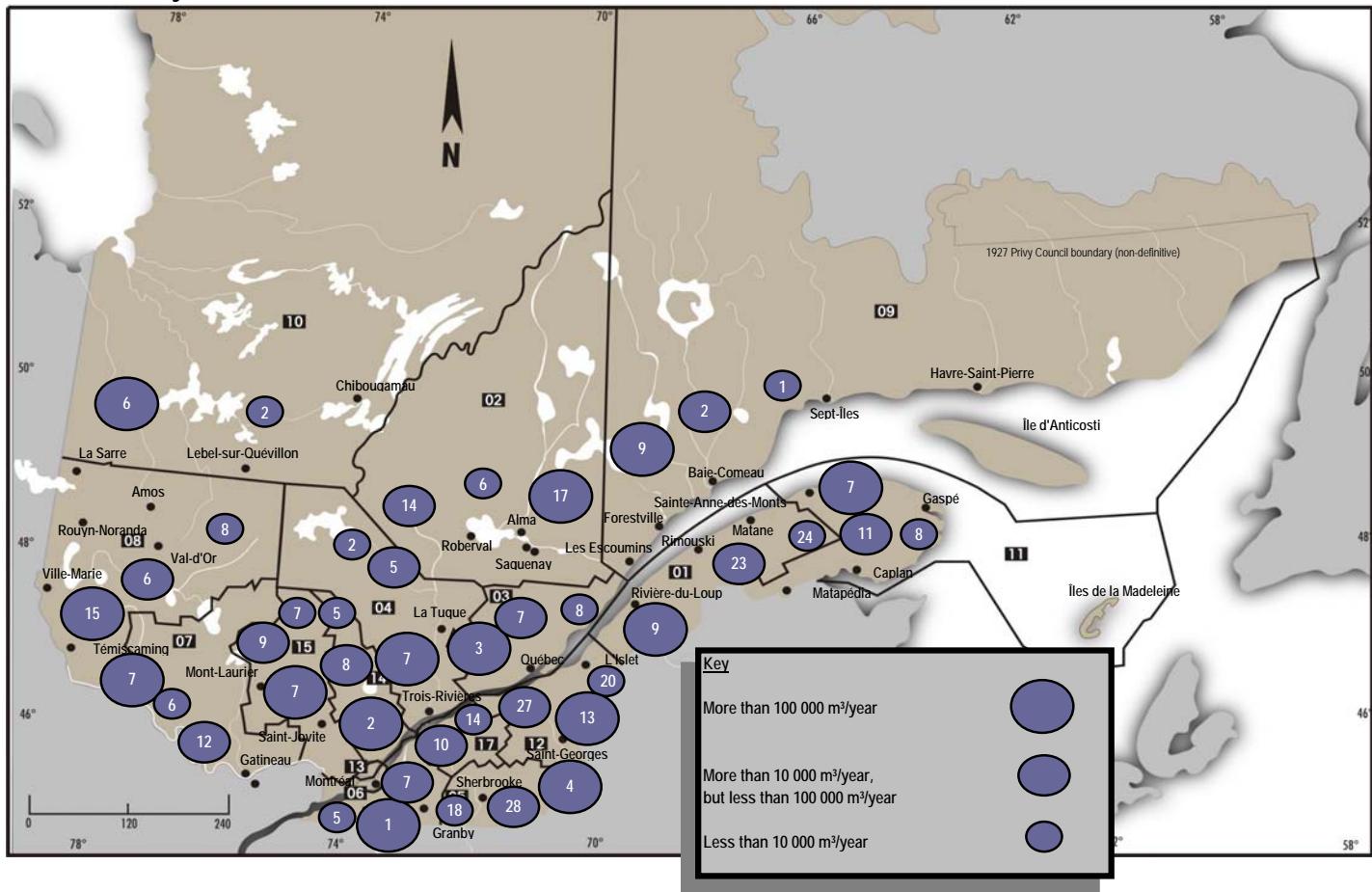
Sources: Statistics Canada: 35-002 (1987 to 1995) and 35-003.

10 Wood industries

The sawmill industry

Sawmills by size¹ in 2005

10.02.01



1. Mill size on authorized wood consumption volumes.

Source : Ministère des ressources naturelles et de la Faune, Direction du développement de l'industrie des produits forestiers (Forestry register).

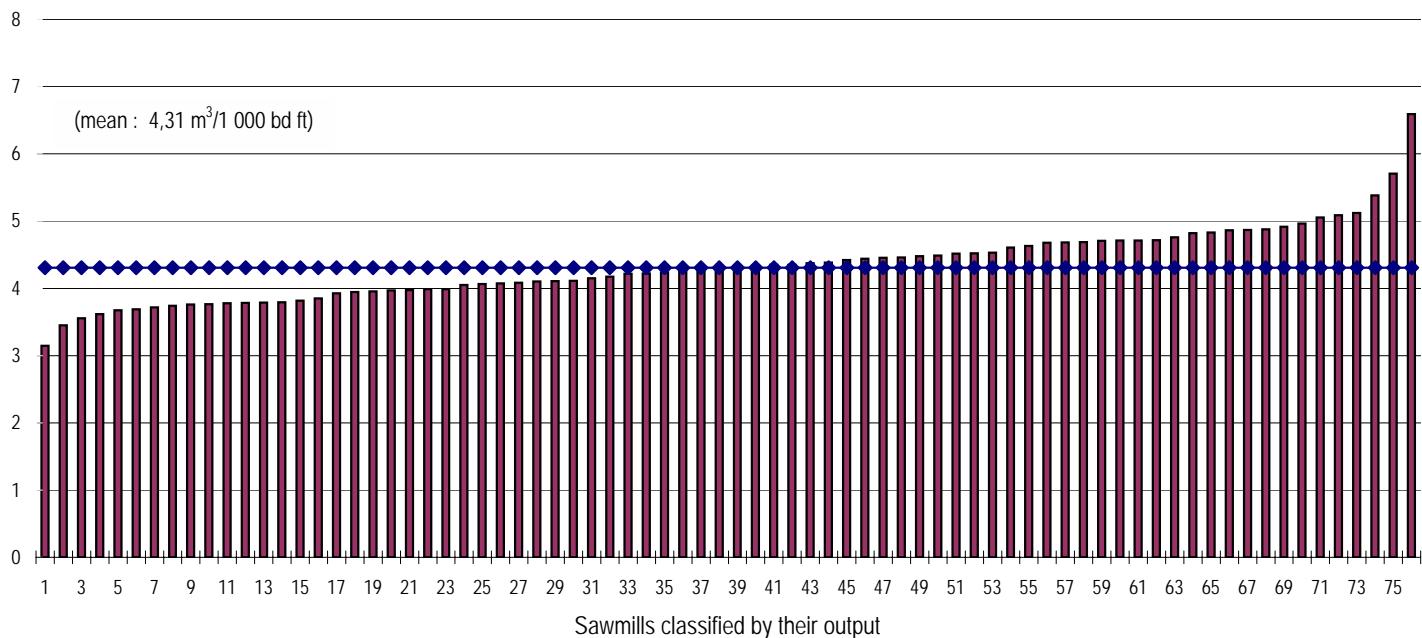
10 Wood industries

The sawmill industry (cont'd)

Timber sawmill output (fir, spruce, jack pine, larch) (TSFMA¹ holders) in 2004

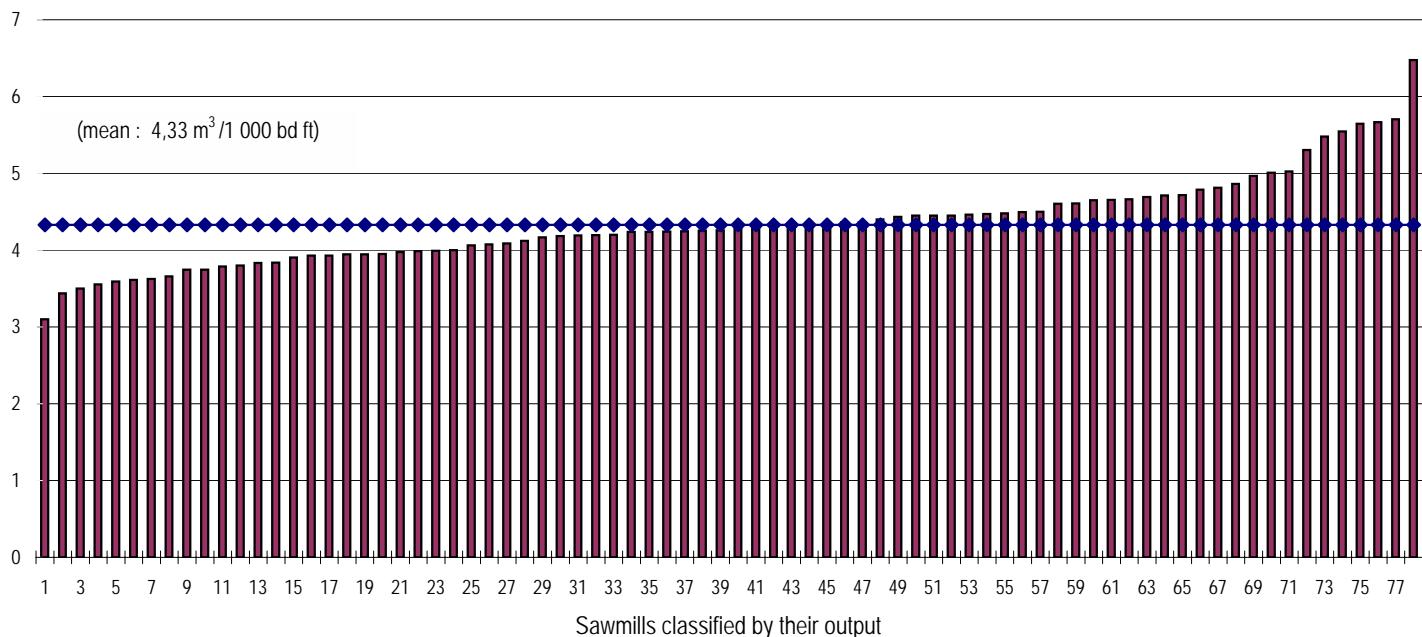
(m³/1 000 bd ft)

10.02.06



Timber sawmill output (fir, spruce, jack pine, larch) (TSFMA¹ holders) in 2005

(m³/1 000 bd ft)



1. TSFMA : timber supply and forest management agreement.

Source : Forestry register, Ministère des Ressources naturelles et de la Faune.

11 The pulp and paper industry

Highlights

Québec's pulp, paper and paperboard mills in June 2006

Mills consuming roundwood, chips, sawdust and shavings (primary processing mills)	38
Mills consuming market pulp and recycled fibres	23
Total	61

Source : Forestry Register, Ministère des Ressources naturelles et de la Faune.

Québec's pulp, paper and paperboard mills and production capacity in June 2006¹

	Mills (no.)	Production capacity (BDMT, 000s/year)
Market pulp	9	3 648,2
Newspaper (mechanical, superclandered, etc.)	19	4 913,5
Paperboard packaging and others	10	1 502,8
Low-density board	2	110,0
Fine and specialty paper	3	894,8
Construction paperboard	1	18,0
Kraft papers (packing, carbon)	2	103,2
Sanitary tissue	15	683,8
Total	61	11 874,3

1. Classification by main product.

Source : Forestry Register, Ministère des Ressources naturelles et de la Faune.

Establishments by paper manufacturing industry sub-groups (NAICS 322)

	2004
Mechanical pulp mills	5
Chemical pulp mills	6
Paper (except newspaper) mills	24
Newspaper mills	16
Paperboard mills	16
Corrugated and solid paperboard box manufacturing	25
Folding paperboard box manufacturing	22
Other paperboard container manufacturing	15
Paper bag and coated and treated paper manufacturing	31
Stationery product manufacturing	16
Sanitary paper product manufacturing	15
All other converted paper product manufacturing	9
Total	200

Source : Statistics Canada (According to the annual report on logging and manufacturing).

Main timber supply sources for Québec's pulp and paper industry in 2005 (m³, 000s)

Roundwood and chips (public forests)	1 793,6
Roundwood and chips (private forests)	1 675,7
Roundwood, chips, sawdust and shavings from Québec's mills	17 682,1
Roundwood, chips, sawdust and shavings from outside Québec	2 889,7

Total	24 041,1
--------------	-----------------

Source : Forestry Register, Ministère des Ressources naturelles et de la Faune.

Raw materials used in Québec's pulp and paper mills in 2005 (BDMT, 000s)

Roundwood	1 879,0
Joint sawmill production	8 235,0
Recycled fibres and commercial pulp	2 916,0
Total	13 030,0

Source : Forestry Register, Ministère des Ressources naturelles et de la Faune.

11.00.01

Recycled fibre from paper and paperboard recycled by Québec's pulp and paper industry in 2005 (BDMT, 000s)

Recovered paper for de-inking	1 225,0
Recovered paper, without de-inking	152,5
Recovered paperboard for de-inking	689,8
Total	2 067,3

Source : Forestry Register, Ministère des Ressources naturelles et de la Faune.

Types of pulp produced by Québec's pulp and paper industry (mt, 000s)

	2003	2004	2005
Sulphate pulp (Kraft)	2 083	2 122	2 009
Thermomechanical pulp	3 765	3 823	3 946
Recycled pulp	1 607	1 703	1 754
Other pulp	1 275	1 242	1 153
Total	8 730	8 890	8 862

Source : Forestry Register, Ministère des Ressources naturelles et de la Faune.

Québec's paper and paperboard production (mt, 000s)

	2004	2005
Newsprint	3 472	3 416
Printing and writing papers	3 055	3 149
Sanitary tissue	342	288
Other papers	140	213
Paperboard	1 763	1 651
Total	8 772	8 716

Source : Forestry Register, Ministère des Ressources naturelles et de la Faune.

Québec's share of Canadian paper and paperboard production (mt, 000s)

	2004	2005		
	Newsprint	Other paper and paperboard	Newsprint	Other paper and paperboard
Québec	3 488	4895	3 421	4 871
Canada	8 180	12 419	7 769	11 904
Québec/Canada (%)	42,6	39,4	44,0	40,9

Sources : Conseil des industries forestières du Québec (CIFO).

Conseil des produits des pâtes et papiers (CPPP).

Economic indicators for Québec's paper products industry (NAICS 322) in 2004

Jobs (no.)	27 658
Salaries and wages (\$, 000s)	1 559 063
Value of shipments and other revenue (\$, 000s)	10 764 347
Value added ¹ to total activity (\$, 000s)	4 317 907
Capital expenditures and repair (\$, 000s)	784 800

1. The value added to the total activity has been estimated.

Source : Statistics Canada (According to the annual report on logging and manufacturing).

11 Pulp and paper industry

Highlights (cont'd)

11.00.1

Economic indicators for Québec's wood pulp, paper and paperboard industry (NAICS 3221) in 2004

Jobs (no.)	16 303
Salaries and wages (\$, 000s)	996 974
Value of shipments and other revenue (\$, 000s)	7 307 688
Value added ¹ to total activity (\$, 000s)	2 799 230
Capital expenditures and repairs (\$, 000s)	..

1. The value added to the total activity has been estimated.

Source : Statistics Canada (According to the annual report on logging and manufacturing).

Destination of Québec's pulp and paper shipments in 2005 (mt, 000s)

	Canada	United States	Other countries	Total
Newsprint	476	2 208	728	3 412
Market pulp	275	358	754	1 387
Other paper and paperboard	1 365	3 316	206	4 887
Total	2 116	5 882	1 688	9 686

Source : Conseil des industries forestières du Québec (CIFO).

Destination of Québec's pulp and paper shipments in 2006 (tm, 000s)

	Canada	United States	Other countries	Total
Newsprint	487	2 062	730	3 279
Market pulp	289	256	739	1 284
Other paper and paperboard	1 724	3 427	172	5 323
Total	2 500	5 745	1 641	9 886

Source : Conseil des industries forestières du Québec (CIFO).

Relative share of Québec's pulp and paper exports (\$, million)

	2004	2005	2006
Pulp and paper exports	7 264	7 401	7 495
Total exports	68 476	71 026	73 330
Relative share (%)	10,6	10,4	10,2

Sources : Statistics Canada : 65-003 and Institut de la statistique du Québec.

Share of Québec's newsprint exports on US market (mt, 000s)

	2003	2004	2005
Québec's shipments to the US	2 388	2 339	2 208p
US newsprint consumption	10 130	9 897	9 376p
Relative share (%)	23,6	23,6	23,5p

Source : Institut de la statistique du Québec and Conseil des produits des pâtes et papiers (CPPP).

Québec's balance of trade¹ in the pulp and paper sector² in 2006 (\$, million)

	Exports	Imports	Balance of trade
Woodpulp or pulp derived from other cellulosic fibrous materials, paper or paperboard for recycling (waste and residues)	1 005,0	165,0	840,0
Paper or paperboard; cellulose products, in paper or paperboard	6 490,0	1 011,7	5 478,3
Total	7 495,0	1 176,7	6 318,3

1. Balance of trade of commercial goods with international destinations.

2. Product descriptors consistent with the Harmonized Commodity Description and Coding System (World Customs Organization).

Source : Institut de la statistique du Québec.

Québec's balance of trade¹ in the pulp and paper² products manufacturing sector in 2006 (\$, million)

	Exports	Imports	Balance of trade
Pulp, paper and paperboard mills (NAICS 3221)	6 658,8	747,3	5 911,5
Converted paper product manufacturing (NAICS 3222)	707,1	315,7	391,4
Total	7 365,9	1 063,0	6 302,9

1. Balance of trade of commercial goods with international destinations.

2. According to NAICS.

Source : Institut de la statistique du Québec.

Environmental protection

	1981	2004	2004 / 1981
Total suspended solids (TSS) in mill effluent (kg/ton of pulp produced)	26,0	1,9	-93 %
Biochemical oxygen demand (BOD ₅) in mill effluent (kg/ton of pulp produced)	59,1	1,0	-98 %
Water consumption by mills (m ³ /ton of pulp produced)	121,0	51,0	-58 %

Source : Ministère du Développement durable, de l'Environnement et des Parcs.

Investments by papermills to clean up atmospheric emissions in 2001

Québec investments (\$, 000s)	12 177
Canadian investments (\$, 000s)	213 497
Québec / Canada (%)	5,7

Source : Association des produits forestiers du Canada (APFC).

11 The pulp and paper industry

Highlights

Québec's pulp, paper and paperboard mills in June 2006

Mills consuming roundwood, chips, sawdust and shavings (primary processing mills)	38
Mills consuming market pulp and recycled fibres	23
Total	61

Source : Forestry Register, Ministère des Ressources naturelles et de la Faune.

Québec's pulp, paper and paperboard mills and production capacity in June 2006¹

	Mills (no.)	Production capacity (BDMT, 000s/year)
Market pulp	9	3 648,2
Newspaper (mechanical, supercalandered, etc.)	19	4 913,5
Paperboard packaging and others	10	1 502,8
Low-density board	2	110,0
Fine and specialty paper	3	894,8
Construction paperboard	1	18,0
Kraft papers (packing, carbon)	2	103,2
Sanitary tissue	15	683,8
Total	61	11 874,3

1. Classification by main product.

Source : Forestry Register, Ministère des Ressources naturelles et de la Faune.

Establishments by paper manufacturing industry sub-groups (NAICS 322)

	2004
Mechanical pulp mills	5
Chemical pulp mills	6
Paper (except newsprint) mills	24
Newspaper mills	16
Paperboard mills	16
Corrugated and solid paperboard box manufacturing	25
Folding paperboard box manufacturing	22
Other paperboard container manufacturing	15
Paper bag and coated and treated paper manufacturing	31
Stationery product manufacturing	16
Sanitary paper product manufacturing	15
All other converted paper product manufacturing	9
Total	200

Source : Statistics Canada (According to the annual report on logging and manufacturing).

Establishments by printing and related support activities industry sub-groups (NAICS 323)

	2004
Commercial screen printing	29
Quick printing	10
Digital printing	11
Manifold business forms printing	36
Other printing	283
Support activities for printing	78
Total	447

Source : Statistics Canada (According to the annual report on logging and manufacturing).

Main timber supply sources for Québec's pulp and paper industry in 2005 (m³, 000s)

Roundwood and chips (public forests)	1 793,6
Roundwood and chips (private forests)	1 675,7
Roundwood, chips, sawdust and shavings from Québec's mills	17 682,1
Roundwood, chips, sawdust and shavings from outside Québec	2 889,7
Total	24 041,1

Source : Forestry Register, Ministère des Ressources naturelles et de la Faune.

Raw materials used in Québec's pulp and paper mills in 2005 (BDMT, 000s)

Roundwood	1 879,0
Joint sawmill production	8 235,0
Recycled fibres and commercial pulp	2 916,0
Total	13 030,0

Source : Forestry Register, Ministère des Ressources naturelles et de la Faune.

Recycled fibre from paper and paperboard recycled by Québec's pulp and paper industry in 2005 (BDMT, 000s)

Recovered paper for de-inking	1 225,0
Recovered paper, without de-inking	152,5
Recovered paperboard, without de-inking	689,8
Total	2 067,3

Source : Forestry Register, Ministère des Ressources naturelles et de la Faune.

Types of pulp produced by Québec's pulp and paper industry (mt, 000s)

	2003	2004	2005
Sulphate pulp (Kraft)	2 083	2 122	2 009
Thermomechanical pulp	3 765	3 823	3 946
Recycled pulp	1 607	1 703	1 754
Other pulp	1 275	1 242	1 153
Total	8 730	8 890	8 862

Source : Forestry Register, Ministère des Ressources naturelles et de la Faune.

Québec's paper and paperboard production (mt, 000s)

	2004	2005
Newsprint	3 472	3 416
Printing and writing papers	3 055	3 149
Sanitary tissue	342	288
Other papers	140	213
Paperboard	1 763	1 651
Total	8 772	8 716

Source : Forestry Register, Ministère des Ressources naturelles et de la Faune.

Québec's share of Canadian paper and paperboard production (mt, 000s)

	2004		2005	
	Newsprint	Other paper and paperboard	Newsprint	Other paper and paperboard
Québec	3 488	4895	3 421	4 871
Canada	8 180	12419	7 769	11 904
Québec/Canada (%)	42,6	39,4	44,0	40,9

Sources : Conseil des industries forestières du Québec (CIFQ).
Conseil des produits des pâtes et papiers (CPPP).

11 Pulp and paper industry

Highlights (cont'd)

Québec's printing and related support activities production industry (NAICS 323) (\$, 000s)

	2002	2003	2004	2005
	3 214 765	3 361 042	3 462 989	3 453 772

Source : Institut de la statistique du Québec (principal statistics on total activity).

Economic indicators for Québec's paper products industry (NAICS 322) in 2004

	Jobs (no.)	27 658
Salaries and wages (\$, 000s)	1 559 063	
Value of shipments and other revenue (\$, 000s)	10 764 347	
Value added ¹ to total activity (\$, 000s)	4 317 907	
Capital expenditures and repair (\$, 000s)	784 800	

1. The value added to total activity has been estimated.

Source : Statistics Canada (According to the annual report on logging and manufacturing).

Economic indicators for Québec's wood pulp, paper and paperboard industry (NAICS 3221) in 2004

	Jobs (no.)	16 303
Salaries and wages (\$, 000s)	996 974	
Value of shipments and other revenue (\$, 000s)	7 307 688	
Value added ¹ to total activity (\$, 000s)	2 799 230	
Capital expenditures and repairs (\$, 000s)	..	

1. The value added to total activity has been estimated.

Source : Statistics Canada (According to the annual report on logging and manufacturing).

Destination of Québec's pulp and paper shipments in 2005 (mt, 000s)

	Canada	United States	Other countries	Total
Newsprint	476	2 208	728	3 412
Market pulp	275	358	754	1 387
Other paper and paperboard	1 365	3 316	206	4 887
Total	2 116	5 882	1 688	9 686

Source : Conseil des industries forestières du Québec (CIFQ).

Destination of Québec's pulp and paper shipments in 2006 (tm, 000s)

	Canada	United States	Other countries	Total
Newsprint	487	2 062	730	3 279
Market pulp	289	256	739	1 284
Other paper and paperboard	1 724	3 427	172	5 323
Total	2 500	5 745	1 641	9 886

Source : Conseil des industries forestières du Québec (CIFQ).

Relative share of Québec's pulp and paper exports (\$, million)

	2004	2005	2006
Pulp and paper exports	7 264	7 401	7 495
Total exports	68 476	71 026	73 330
Relative share (%)	10,6	10,4	10,2

Sources : Statistics Canada : 65-003 and Institut de la statistique du Québec.

11.00.01 (2)

Share of Québec's newsprint exports on US market (mt, 000s)

	2003	2004	2005
Québec's shipments to the US	2 388	2 339	2 208p
US newsprint consumption	10 130	9 897	9 376p
Relative share (%)	23,6	23,6	23,5p

Sources : Institut de la statistique du Québec and Conseil des produits des pâtes et papiers (CPPP).

Economic indicators for Québec's printing and related support activities (NAICS 323) in 2004

	Jobs (no.)	18 438
Salaries and wages (\$, 000s)	809 135	
Value of shipments and other revenue (\$, 000s)	3 132 757	
Value added ¹ to total activity (\$, 000s)	1 747 495	
Capital expenditures and repair (\$, 000s)	123 500	

1. The value added to total activity has been estimated.

Source : Statistics Canada (According to the annual report on logging and manufacturing).

Québec's balance of trade ¹ in the printing and related activities ² sector in 2006 (\$, million)

	Exports	Imports	Balance of trade
Printing and related support activities	502,0	145,7	356,3

1. Balance of trade of commercial goods with international destinations.

2. According to NAICS.

Source : Institut de la statistique du Québec.

Québec's balance of trade ¹ in the pulp and paper, printing and related support activities manufacturing ² in 2006 (\$, million)

	Exports	Imports	Balance of trade
Pulp and paper manufacturing	7 365,9	1 063,0	6 302,9
Printing and related support activities	502,0	145,7	356,3
Total	7 867,9	1 208,7	6 659,2

1. Balance of trade of commercial goods with international destinations.

2. According to NAICS.

Source : Institut de la statistique du Québec.

Environmental protection

	1981	2004	2004 / 1981
Total suspended solids (TSS) in mill effluent (kg/ton of pulp produced)	26,0	1,9	-93 %
Biochemical oxygen demand (BOD ₅) in mill effluent (kg/ton of pulp produced)	59,1	1,0	-98 %
Water consumption by mills (m ³ /ton of pulp produced)	121,0	51,0	-58 %

Source : Ministère du Développement durable, de l'Environnement et des Parcs.

Investments by papermills to clean up atmospheric emissions in 2001

Québec investments (\$, 000s)	12 177
Canadian investments (\$, 000s)	213 497
Québec/Canada (%)	5,7

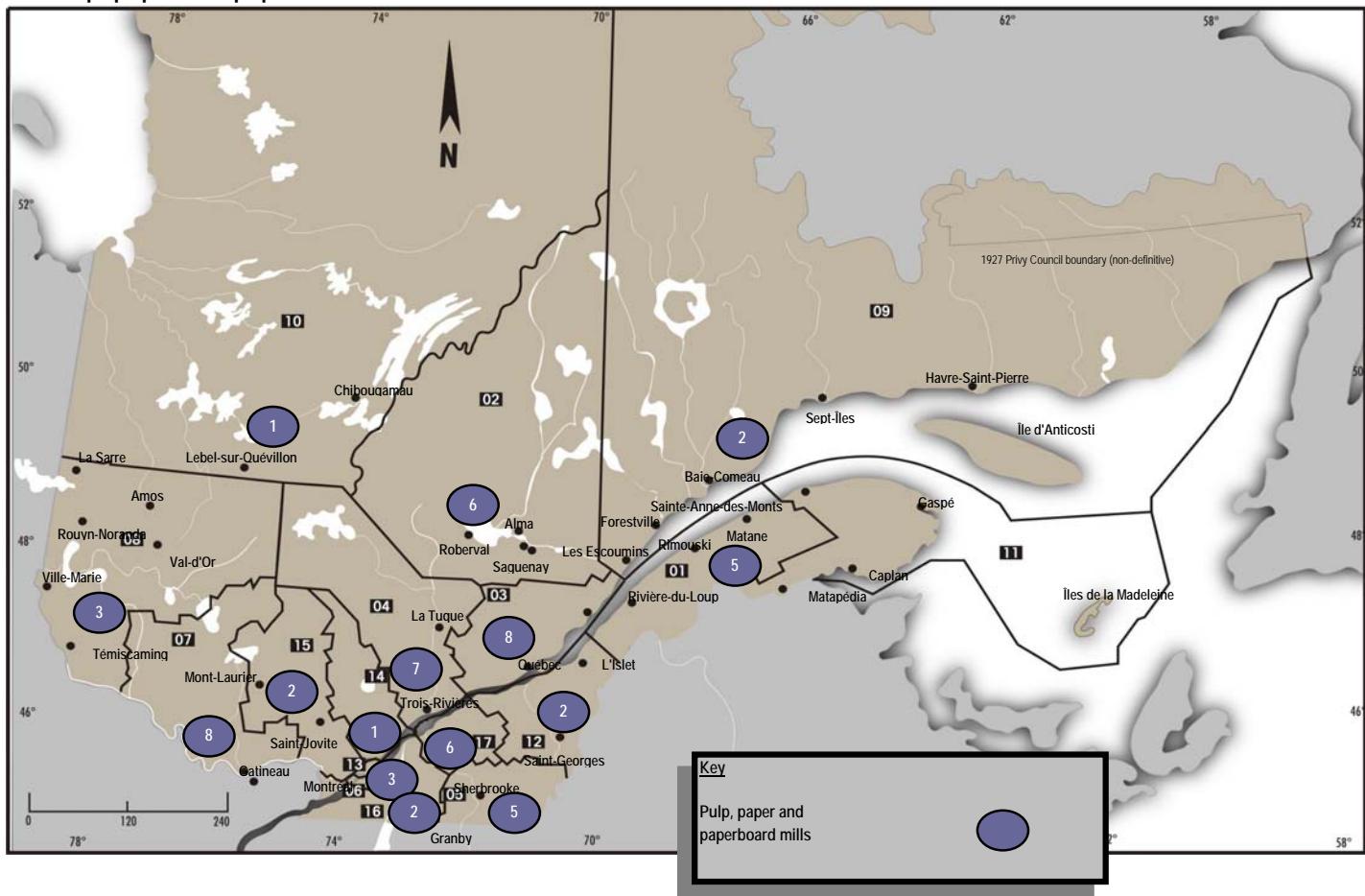
Source : Association des produits forestiers du Canada (APFC).

11 The pulp and paper industry

Production capacity

Pulp, paper and paperboard mills, June 2006¹

11.01.01



1. There are no pulp and paper mills in the regions of Gaspésie-Iles-de-la-Madeleine (11) and Laval (13).

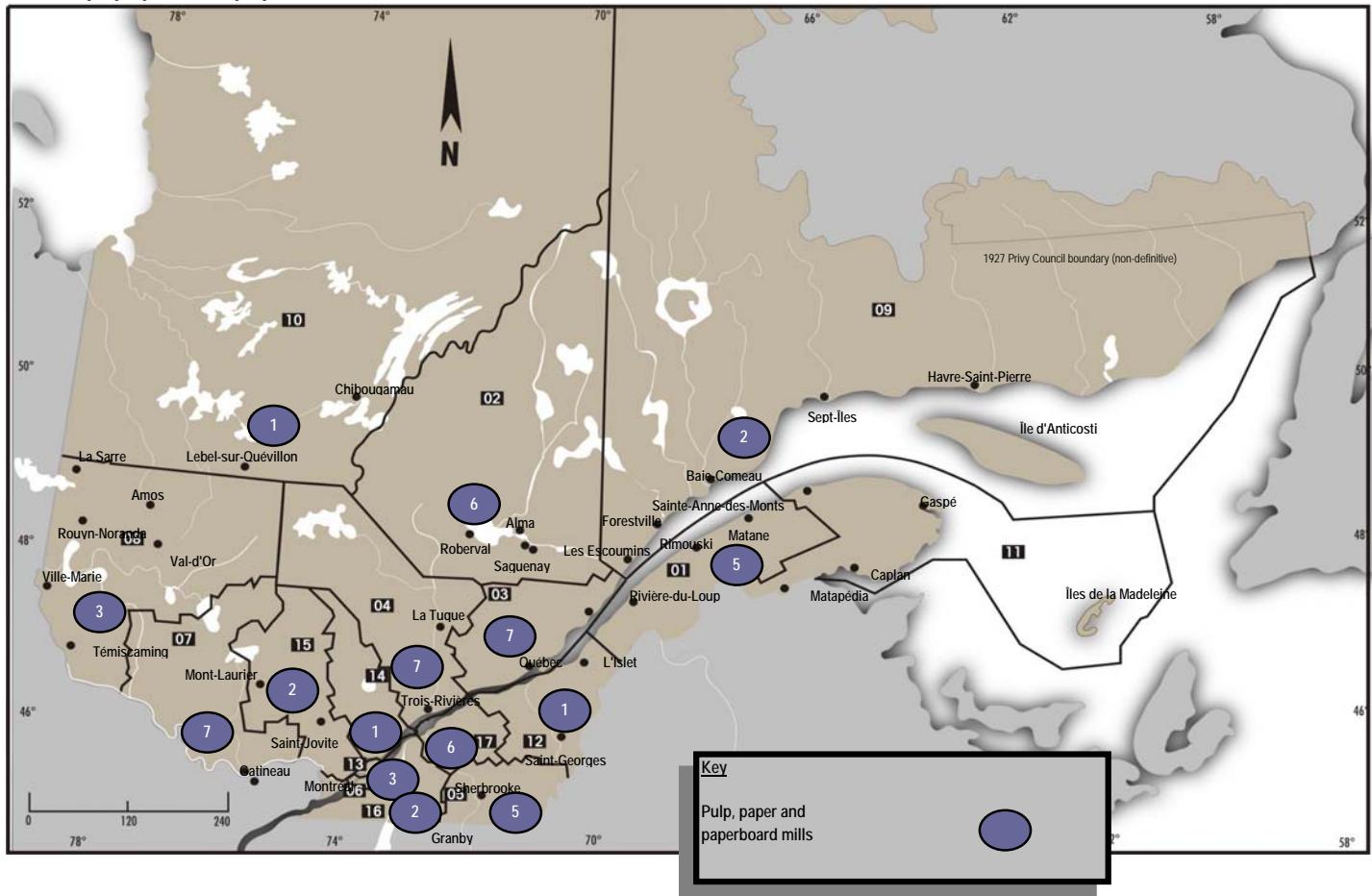
Source : Ministère des Ressources naturelles et de la Faune, Direction du développement de l'industrie des produits forestiers (Forestry Register).

11 The pulp and paper industry

Production capacity

Pulp, paper and paperboard mills, March 2007¹

11.01.01 (2)

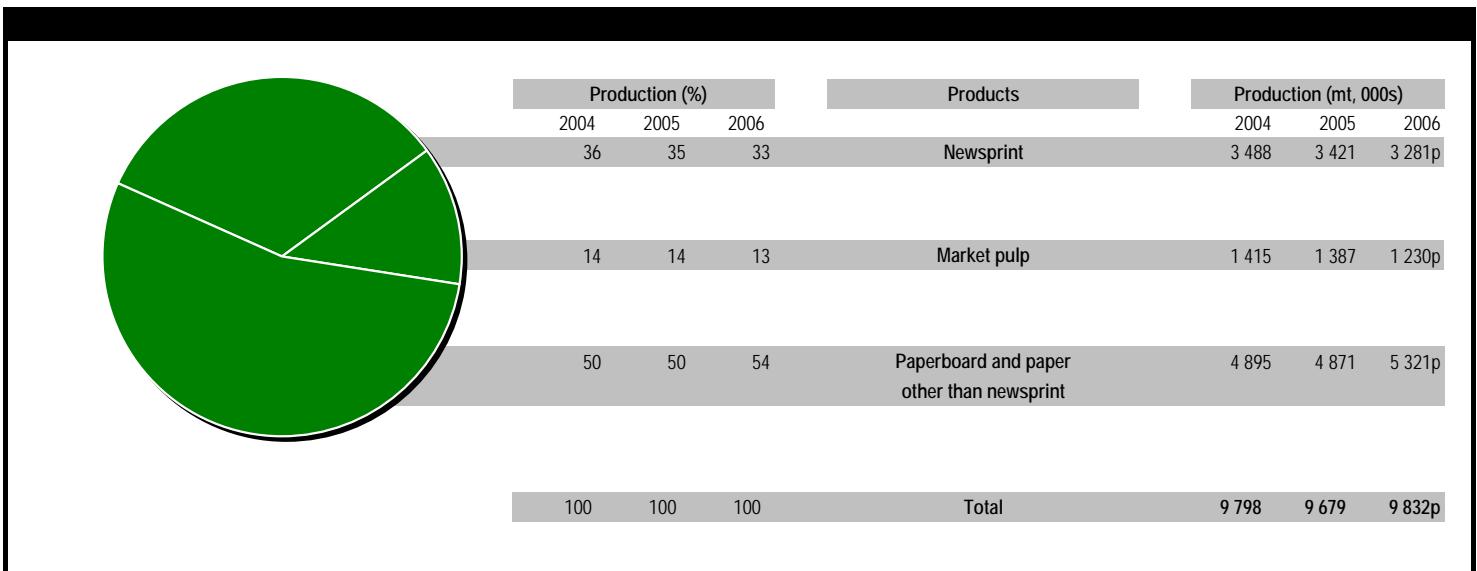


11 The pulp and paper industry

Production

Breakdown of production by product

11.02.05



Source : Québec's Forest Industry Council (QFIC).

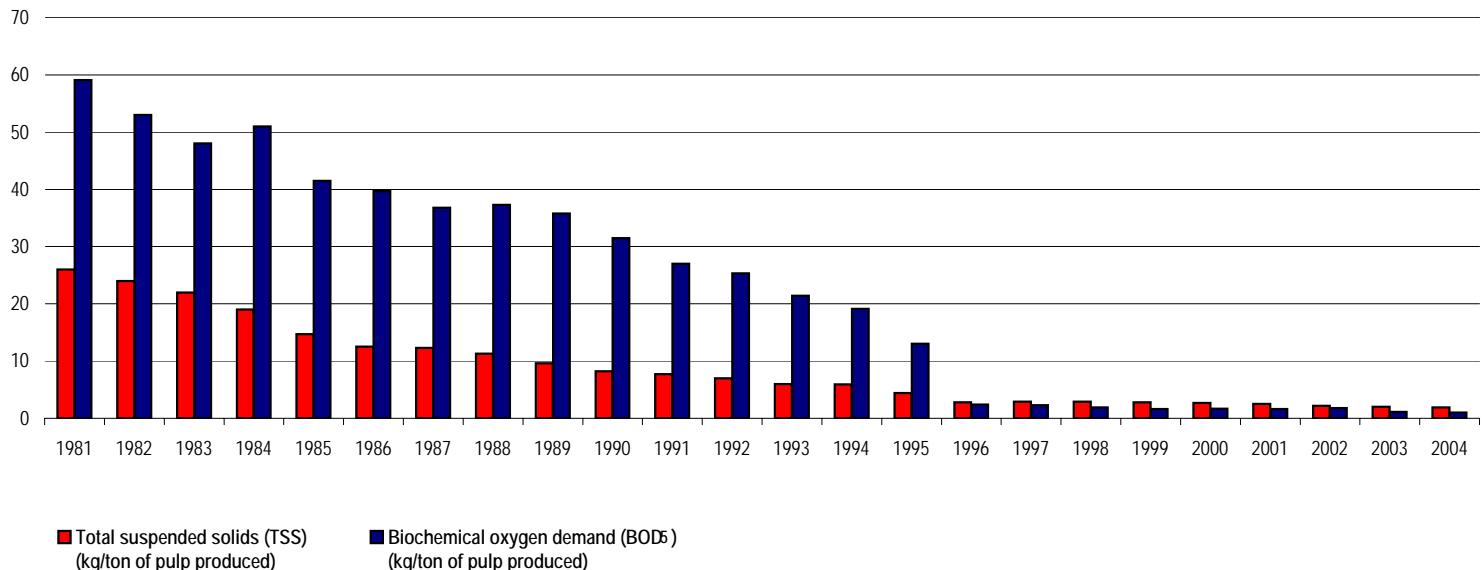
11 The pulp and paper industry

Environment

Trends in the quality of effluents from Québec's pulp and paper mills

11.06.02

(kg/ton of pulp produced)



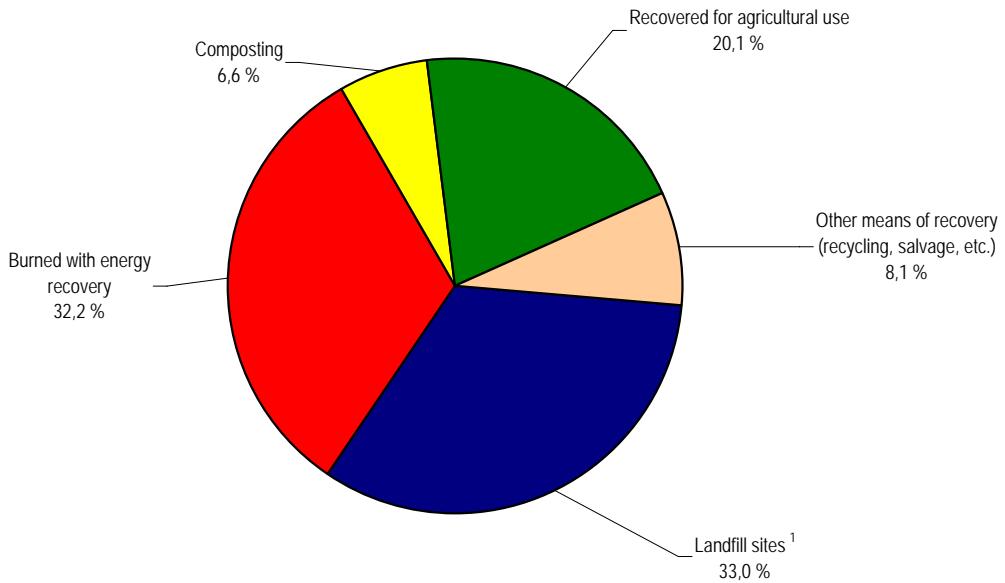
Source : Ministère du Développement durable, de l'Environnement et des Parcs.

11 The pulp and paper industry

Environment (cont'd)

Where did Québec's paper mill waste go in 2004?

11.06.05



1. Including sites set aside for production waste or solid waste landfill sites.

Source : Ministère du Développement durable, de l'Environnement et des Parcs.

12 The forest sector in Québec's economy

Highlights

Economic indicators for Québec's forest products industry in 2004

12.00.01

	Total jobs (no.)	Total salaries and wages (\$, 000s)	Value of shipments and other revenue (\$, 000s)	Value added ¹ to total activity (\$, 000s)
Forestry and logging (NAICS 113)	12 747	423 391	2 889 756	1 302 709
Wood product manufacturing (NAICS 321)	37 473	1 412 299	9 758 118	4 091 534
Paper manufacturing (NAICS 322)	27 658	1 559 063	10 764 347	4 317 907
Total (forest sector)	77 878	3 394 753	23 412 221	9 712 150
Overall manufacturing activity in Québec	475 440	20 471 465	142 675 148	64 039 341

1. The value added to total activity has been estimated according to the following calculation : (Manufactured goods revenue + Total closing stocks – Total opening stocks
– Energy and water supply costs – Supplies and material costs).

Sources : Statistics Canada (According to the annual report on logging and manufacturing of 2004) and Institut de la statistique du Québec.

Economic importance of Québec's forest product exports¹ (\$, million)

	2005	2006
Raw wood, sawn wood and lumber	4 355,7	3 712,5
Pulp, paper and paperboard	7 380,7	7 494,6
Total (forest sector)	11 736,5	11 207,1

1. Based on customs data, according to the Standard Classification of Goods (SCG).

Québec's balance of trade¹ in the forest products sector and for all products² in 2006 (\$, million)

	Imports	Exports	Balance of trade
Wood, wood charcoal and wood products			
Pulp, paper and paperboard	981,6	3 639,9	2 658,3
	1 176,7	7 495,0	6 318,3
Total (forest products sector)	2 158,3	11 134,9	8 976,6
All products	80 743,0	73 330,0	-7 413,0

1. Balance of trade of commercial goods with international destinations.

2. Product descriptors consistent with the Harmonized Commodity Description and Coding System (World Customs Organization).

Source : Institut de la statistique du Québec, according to the Standard Classification of Goods.

Québec's balance of trade¹ in the forest products sector and for all products² in 2006 (\$, million)

	Imports	Exports	Balance of trade
Wood product manufacturing	635,9	3 548,1	2 912,2
Wood pulp, paper and paperboard, converted paper product manufacturing mills	1 063,0	7 365,9	6 303,1
Total (forest products sector)	1 698,9	10 914,0	9 215,3
All products	80 734,0	73 330,0	-7 413,0

1. Balance of trade of commercial goods with international destinations.

2. According to (NAICS).

Source : Institut de la statistique du Québec.

Gross domestic product (GDP)¹ at factor cost by economic activity² in 2005

	(\$, million)	(% change)
Forestry and logging (NAICS 113)	1 524,9	-4,9
Wood product manufacturing (NAICS 321)	3 515,8	-5,7
Paper manufacturing (NAICS 3221 and 3222)	3 958,9	-3,1
Economy as a whole	224 052,7	100,0

1. GDP by sector of activity measures the added value of each industrial sector, i.e. production value less intermediate consumption value.

2. In chained (1997) dollars.

Source : Statistics Canada.

Value of Québec's shipments, principal forest products (\$, million)

	2005	2006
Sawmills	3 509	2 858
Other prefabricated millwork	1 395	1 166
Oriented strand board (OSB)	397	251
Particle board	660	569
Wooden doors and windows	678	646
Wooden boxes and pallets	148	150
Wooden structural products	329	304
Wooden kitchen cabinets	787	747
Wood pulp	1 061	1 074
Newsprint	3 617	3 668
Paperboard	974	968
Paperboard containers	1 547	1 495

Source : Institut de la statistique du Québec.

Construction starts in Canada and the United States (no. of units)

	2005	2006
Canada	225 481	227 915
United States	2 068 000	1 800 700

Source : Société canadienne d'hypothèques et de logement and US Census Bureau.

Financial indicators

	2005	2006
Average exchange rate (C\$/US\$)	1,212	1,134
Average exchange rate (C\$/E)	2,207	2,089
Average exchange rate (C\$/€)	1,509	1,424
Average exchange rate (C\$/¥)	0,011	0,010
Average discount rate		
• Canada (%)	2,92	4,31
• United States (%)	3,25	4,98
Average prime rate		
• Canada (%)	4,42	5,81
• United States (%)	6,25	8,00
Stock market index (paper and forest product market prices, Toronto Exchange)	11 272,26	12 908,39

Source : Bank of Canada and <http://www.djindexes.com>.

12 The forest sector in Québec's economy

Highlights (cont'd)

12.00.01

Average price of principal forest products

	2005	2006
Softwood lumber,		
Toronto green (composite price) (C\$/1 000 bd ft)	387,9	326,3
Softwood lumber,		
Columbus dry (composite price) (C\$/1 000 bd ft)	472,8	384,9
Hardwood lumber,		
Montreal exchange (weighted price) (C\$/1 000 bd ft)	659,3	552,6
Plywood (12,5 mm) (C\$/1 000 sq.ft.)	485,6	450,0
Oriented strand board (OSB) 7/16" (C\$/1 000 sq.ft.)	403,0	250,0
Bleached softwood kraft pulp (US\$/mt)	640,0	770,0
Bleached hardwood kraft pulp (US\$/mt)	615,0	690,0
Newspaper (US\$/mt)	645,0	660,0

Sources : Pribec, Madison's Canadian Lumber Reporter, Random Lengths Publications, RISI, Inc.

Estimated revenue from wood chips in Québec

(C\$/1 000 bd ft)¹

	2005	2006
	127,0	124,0

1. Estimated revenue for every 1 000 bd ft produced.

Source : Ministère des Ressources naturelles et de la Faune (internal compilation).

Profits made by Canada's forest products industry

	2005	2006
Profits (\$, million)	375	640
Profits/sales (%)	2,0	3,3

Source : Statistics Canada : 61-008.

Share of paper mill-integrated sawmills in authorized roundwood consumption

1987	28,1 % of total consumption
2005	50,5 % of total consumption

Source : Ministère des Ressources naturelles et de la Faune (internal compilation).

Budget allocated to the secteur des forêts and the secteur des services régionaux, MRNF¹, 2005-2006² (\$, 000s)

Research and development	15 676,9
Forestry policies and programs	99 709,1
Forest management planning and monitoring	102 065,1
Seedling production	46 113,4
Internal management and support	900,0
Forestry loans	500,0
Total	264 964,5

1. Ministère des Ressources naturelles et de la Faune.

2. Including Forestry Fund (financed jointly by the MRNF and the industry) : forestry research, forest surveys, seedling production, planning and control.

Source : Ministère des Ressources naturelles et de la Faune, Direction des ressources financières (internal compilation).

12 The forest sector in Québec's economy

Highlights

12.00.01 (2)

Economic indicators for Québec's forest products industry in 2004 (including furniture and printing)

	Total jobs (no.)	Total salaries and wages (\$,000s)	Value of shipments and other revenue (\$,000s)	Value added ¹ to total activity (\$,000s)
Forestry and logging (NAICS 113)	12 747	423 391	2 889 756	1 302 709
Wood product manufacturing (NAICS 321)	37 473	1 412 299	9 758 118	4 091 534
Furniture and related product manufacturing (NAICS 337)	29 811	974 926	3 846 467	2 164 431
Paper manufacturing (NAICS 322)	27 658	1 559 063	10 764 347	4 317 907
Printing and related support activities (NAICS 323)	18 438	809 135	3 132 757	1 747 485
Total (forest sector)	126 127	5 178 814	30 391 445	13 624 066
Overall manufacturing activity in Québec	475 440	20 471 465	142 675 148	64 039 341

1. The value added to total activity has been estimated according to the following calculation : (Manufactured goods revenue + Total closing stocks – Total opening stocks
– Energy and water supply costs – Supplies and material costs).

Sources : Statistics Canada (According to the annual report on logging and manufacturing of 2004) and Institut de la statistique du Québec

Economic importance of Québec's forest product exports (including furniture and printing)¹ (\$, million)

	2005	2006
Forestry and logging (NAICS 113)	10,3	8,3
Wood product manufacturing (NAICS 321)	4 201,3	3 548,1
Furniture and related product manufacturing (NAICS 337)	1 516,0	1 368,9
Paper manufacturing (NAICS 3221 and 3222)	7 282,4	7 366,1
Printing and related support activities (NAICS 323)	569,3	502,0
Total (forest sector)	13 579,4	12 793,4

1. According to NAICS.

Source : Statistics Canada (Strategis).

Gross domestic product (GDP)¹ at factor cost by economic activity in 2005² (including furniture and printing)

	(\$, million)	(% change)
Forestry and logging (NAICS 113)	1 524,9	-4,9
Wood product manufacturing (NAICS 321)	3 515,8	-5,7
Furniture and related product manufacturing (NAICS 337)	1 657,2	0,4
Paper manufacturing (NAICS 3221 and 3222)	4 058,9	-3,1
Printing and related support activities (NAICS 323)	1 457,7	-0,7
Economy as a whole	224 052,7	100,0

1. GDP by sector of activity measures the added value of each industrial sector,
i.e. production value less intermediate consumption value.

2. In chained (1997) dollars.

Source : Statistics Canada.

Value of Québec's shipments, principal forest products (including furniture and printing)¹ (\$, million)

	2005	2006
Sawmills	3 509	2 858
Other prefabricated millwork	1 395	1 166
Oriented strand board (OSB)	397	251
Particle board	660	569
Wooden doors and windows	678	646
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Wooden kitchen cabinets	787	747
Furniture	3 785	3 530
Wood pulp	1 061	1 074
Newsprint	3 617	3 668
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Cardboard containers	1 547	1 495
Printing	3 518	3 181

Source : Institut de la statistique du Québec.

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	2005	2006
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Québec's balance of trade¹ in the forest products sector and for all products² in 2006 (including furniture and printing) (\$, million)

	Imports	Exports	Balance of trade
Wood product, furniture and related product manufacturing	1 379,0	4 917,0	3 538,0
Wood pulp, paper and paperboard, converted paper product manufacturing and printing and related support activities mills	1 208,7	7 867,9	6 659,4
Total (forest products sector)	2 587,7	12 784,9	10 197,4
All products	80 743,0	73 330,0	-7 413,0

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Source : Institut de la statistique du Québec.

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12 The forest sector in Québec's economy

Highlights (cont'd)

12.00.01 (2)

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Source : Ministère des Ressources naturelles et de la Faune, Direction des ressources financières (internal compilation).

12 The forest sector in Québec's economy

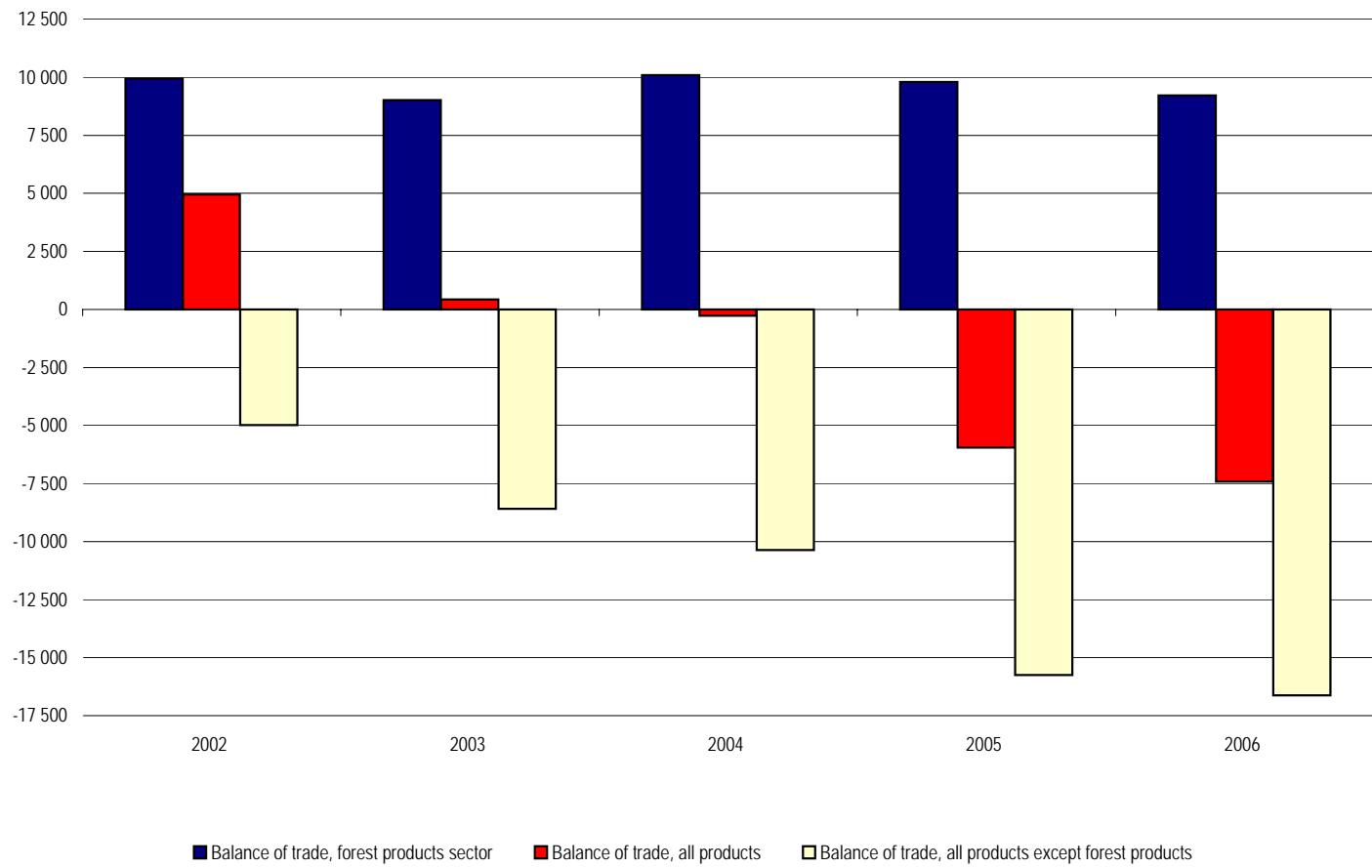
Economic and financial indicators

Economic indicators for the forest sector

Québec's balance of trade¹ in the forest products sector and for all products²

(\$, million)

12.01.13



■ Balance of trade, forest products sector

■ Balance of trade, all products

□ Balance of trade, all products except forest products

1. Balance of trade of commercial goods with international destinations.

2. According to the North American Industry Classification System (NAICS)

Source : Institut de la statistique du Québec.

12 The forest sector in Québec's economy

Economic and financial indicators (cont'd)

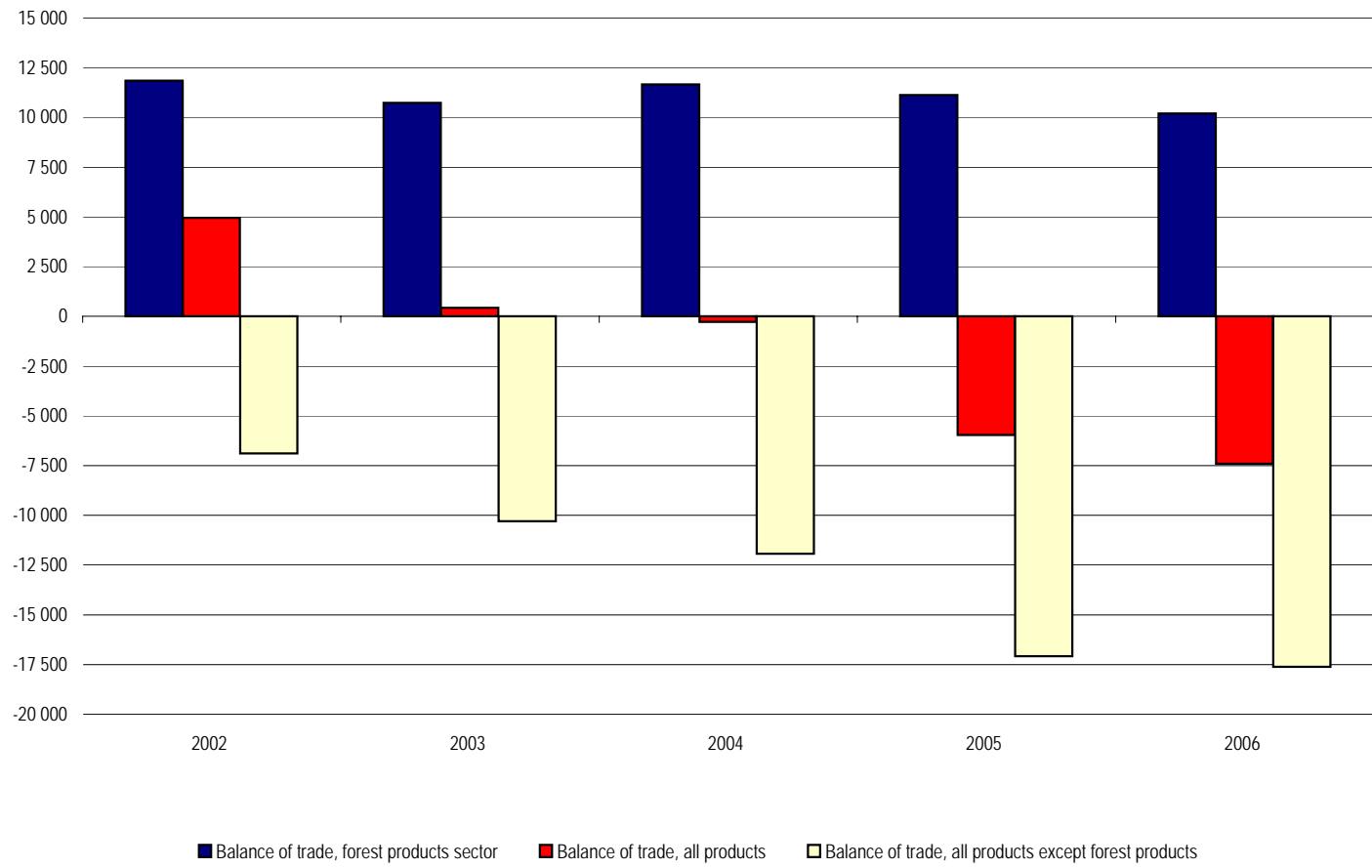
Economic indicators for the forest sector (cont'd)

Québec's balance of trade¹ in the forest products sector ([including furniture and printing](#))

and for all products²

(\$, million)

12.01.13 (2)



1. Balance of trade of commercial goods with international destinations.

2. According to the North American Industry Classification System (NAICS)

Source : Institut de la statistique du Québec.

12 The forest sector in Québec's economy

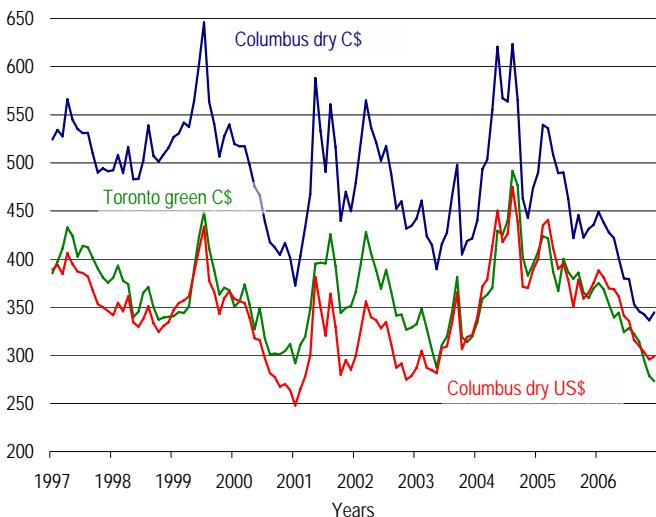
Economic and financial indicators (cont'd) Economic indicators for the forest sector (cont'd)

Price trends

1) Softwood lumber (composit price)

(\$/1000 bd ft)

12.01.38

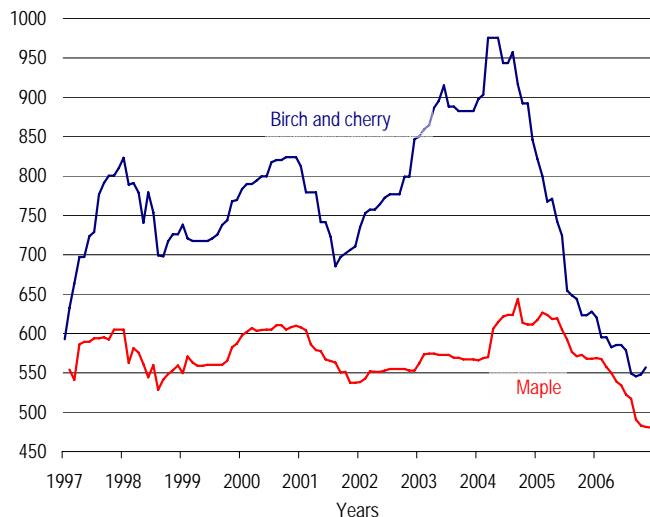


Source : Pribec.

2) Hardwood lumber (weighted price)¹

(C\$/1 000 bd ft)

12.01.39



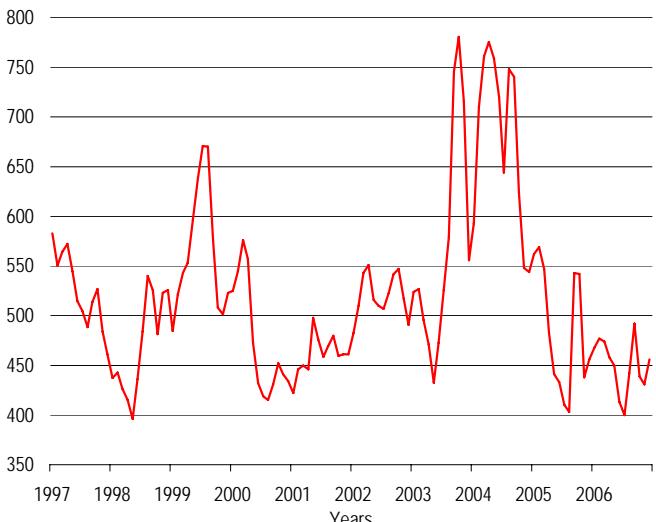
1. 4/4 raw, F.O.B. mill.

Source : Pribec.

3) Plywood (12.5 mm)

(C\$/1000 sq.ft.)

12.01.40

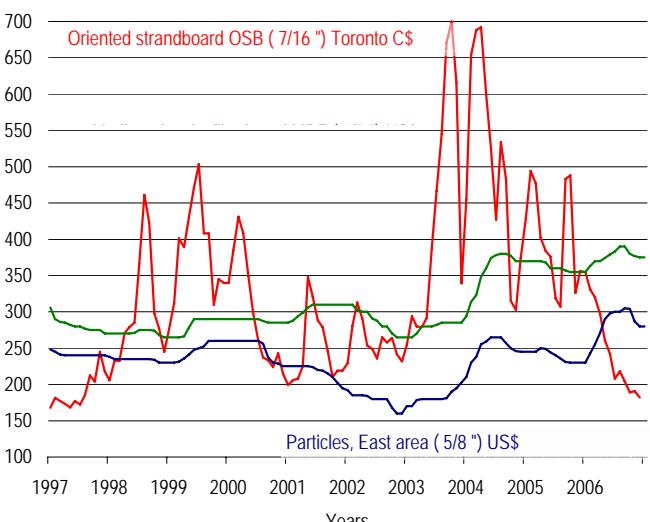


Source : Madison's Canadian Lumber Reporter.

4) Board

(\$/1 000 sq.ft.)

12.01.41



Source : Random Lengths.

12 The forest sector in Québec's economy

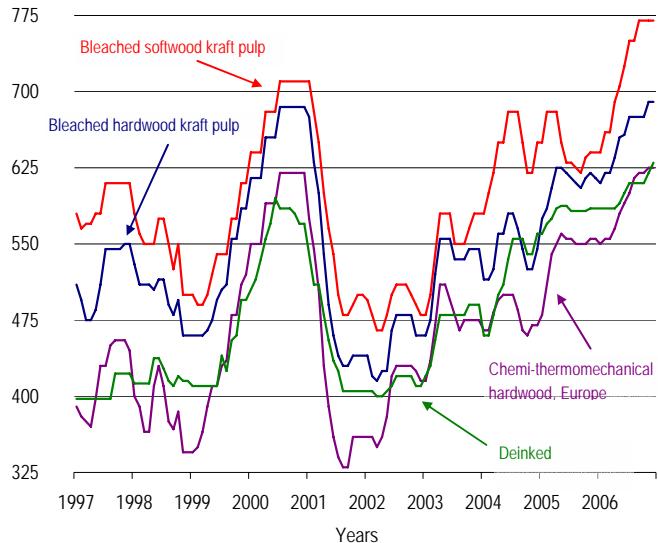
Economic and financial indicators (cont'd) Economic indicators for the forest sector (cont'd)

Price trends (cont'd)

5) Market pulp

(US\$/mt)

12.01.42

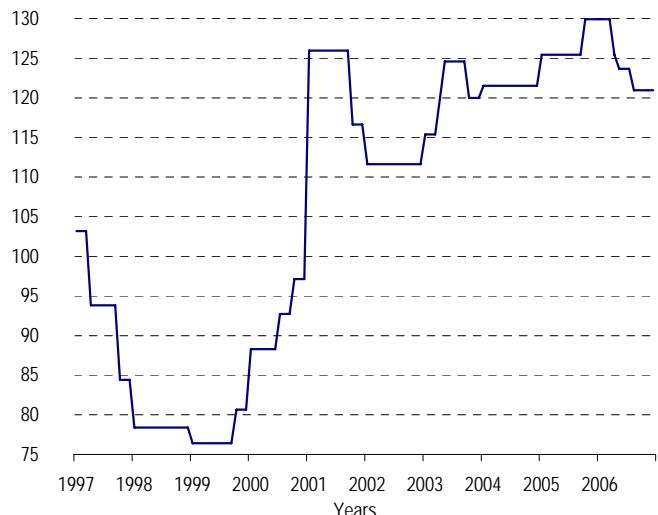


Source : RISI, Inc.

7) Revenue from Chips¹

(C\$/1 000 bd ft)

12.01.44



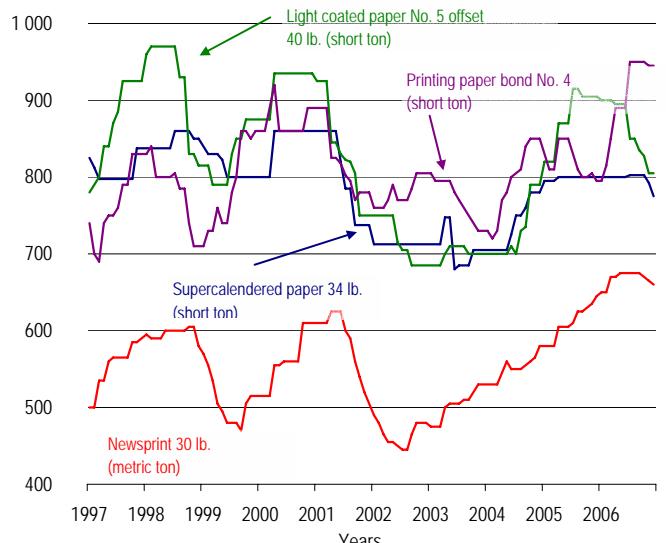
1. The calculation takes into account chip production per 1 000 bd ft.

Source : Ministère des Ressources naturelles et de la Faune (internal compilation).

6) Paper

(US\$)

12.01.43



Source : RISI, Inc.

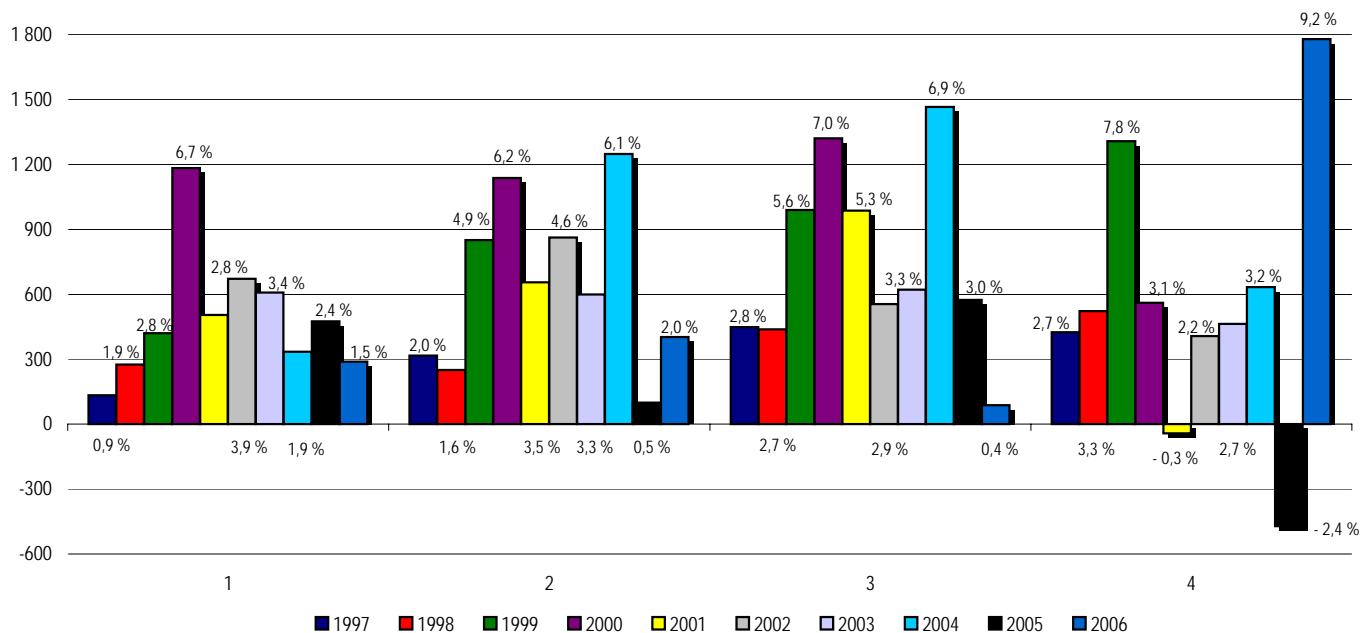
12 The forest sector in Québec's economy

Economic and financial indicators (cont'd) Financial indicators for the forest sector (cont'd)

Wood and paper (Canada)

Quarterly profits (\$, million) and profits before extraordinary items/sales (%)

12.01.45



Source : Statistics Canada : 61-008.

12 The forest sector in Québec's economy

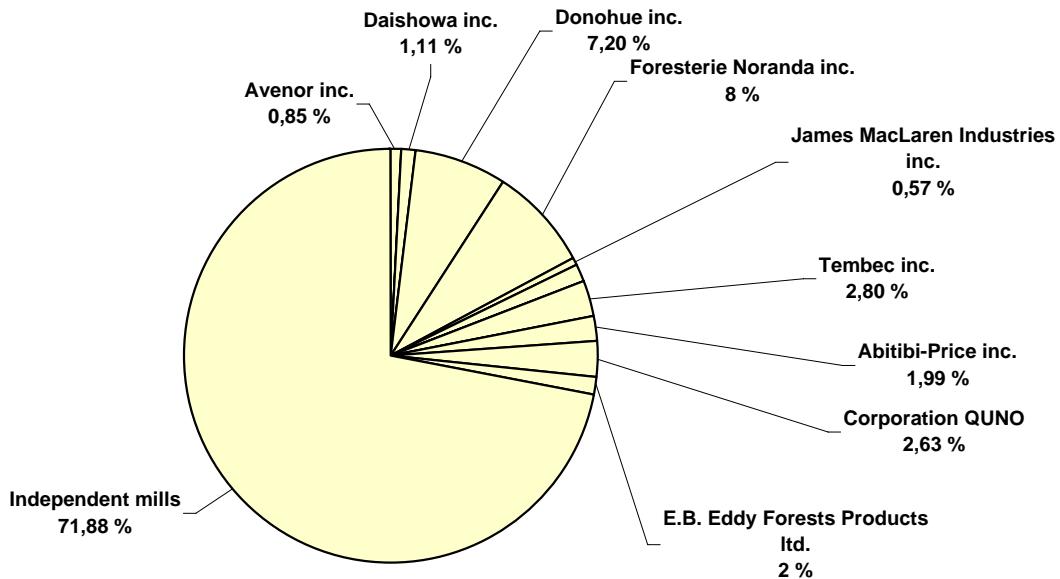
Economic and financial indicators (cont'd)

Economic indicators for the forest sector (cont'd)

Share of paper mill-integrated sawmills in Québec's authorized roundwood consumption (%)

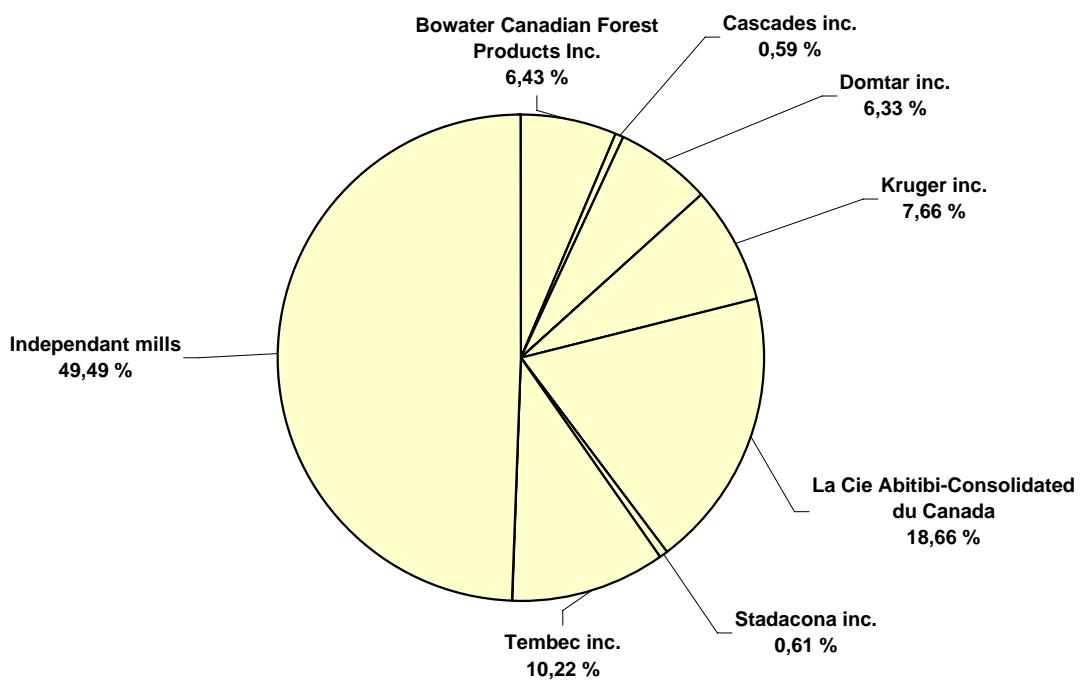
12.01.48

March 1987



12.01.49

December 2005



Source : Ministère des Ressources naturelles et de la Faune, Direction du développement de l'industrie des produits forestiers (internal compilation).