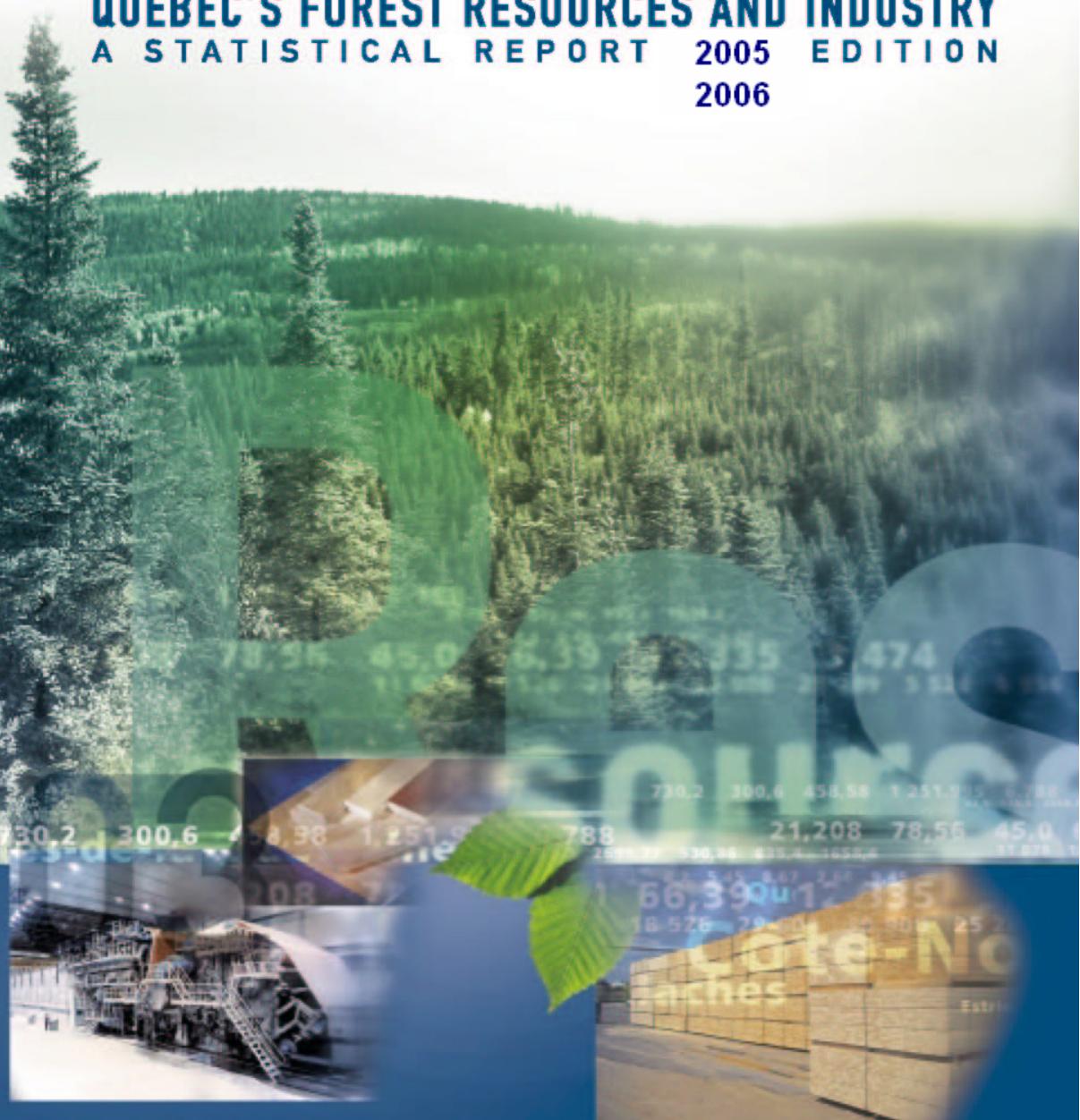


QUÉBEC'S FOREST RESOURCES AND INDUSTRY
A STATISTICAL REPORT 2005 EDITION
2006



Québec 

SUMMARY

QUÉBEC'S FOREST RESOURCES AND INDUSTRY

**A STATISTICAL REPORT
2005-2006 EDITION**

DESIGN, RESEARCH AND TEXT

Blaise Parent, F.E.

working with Claude Fortin, Ad. Tech.

Ministère des Ressources naturelles et de la Faune

DIRECTION DU DÉVELOPPEMENT DE L'INDUSTRIE

DES PRODUITS FORESTIERS

880, chemin Sainte-Foy, bureau **7.50**

Québec, **Québec** G1S 4X4

CANADA

Telephone: (418) 627-8644, ext. 4112

Fax: (418) 643-9534

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.

© Gouvernement du Québec

Ministère des Ressources naturelles et de la Faune, 2006

ISSN on line **1499-9072**

ISBN 2-550-47339-6 (PDF)

DESIGN, RESEARCH AND TEXT

Blaise Parent, F.E.

working with Claude Fortin, Ad. Tech.

Ministère des Ressources naturelles et de la Faune

DIRECTION DU DÉVELOPPEMENT DE L'INDUSTRIE

DES PRODUITS FORESTIERS

880, chemin Sainte-Foy, bureau **7.50**

Québec, **Québec** G1S 4X4

CANADA

Telephone: (418) 627-8644, ext. 4112

Fax: (418) 643-9534

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.

© Gouvernement du Québec

Ministère des Ressources naturelles et de la Faune, 2006

ISSN on line **1499-9072**

ISBN 2-550-47339-6 (PDF)

CONCEPTION, RECHERCHE ET RÉDACTION

Blaise Parent, ing.f.,
en collaboration avec Claude Fortin, tech. adm.
Ministère des Ressources naturelles et de la Faune
Direction du développement de l'industrie
des produits forestiers
880, chemin Sainte-Foy, bureau 7.50
Québec (Québec) G1S 4X4
CANADA
Tél. : (418) 627-8644, poste 4112
Télécopieur : (418) 643-9534

Remarque :

La préparation de ce document a nécessité
la collaboration de toutes les unités
administratives du Secteur des forêts et de Forêt Québec.
À moins d'indication contraire, la source
des données est l'unité administrative
responsable du domaine en cause au ministère
des Ressources naturelles et de la Faune.

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 **2005-2006** 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 (**NFTP**s), 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.mrrfp.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 (nouveau)

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.

La lettre (g) ajoutée entre parenthèses à la fin du code **05.01.10 (g)** signifie qu'il s'agit des données sources du graphique **05.01.10**. De plus, le chiffre (2) ajoutée entre parenthèses à la fin du code **12.01.01 (2)** indique qu'il s'agit des données du tableau **12.01.01** qui précède de même que de celles de l'industrie du meuble et/ou de l'impression. (à traduire)

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
- : néant ou zéro ----> none or zero
— : donnée infime -----> small cap data

Symbols used

TSFMAs : Timber supply and forest management agreements
FMAs : Forest management agreements
FMCs : 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.

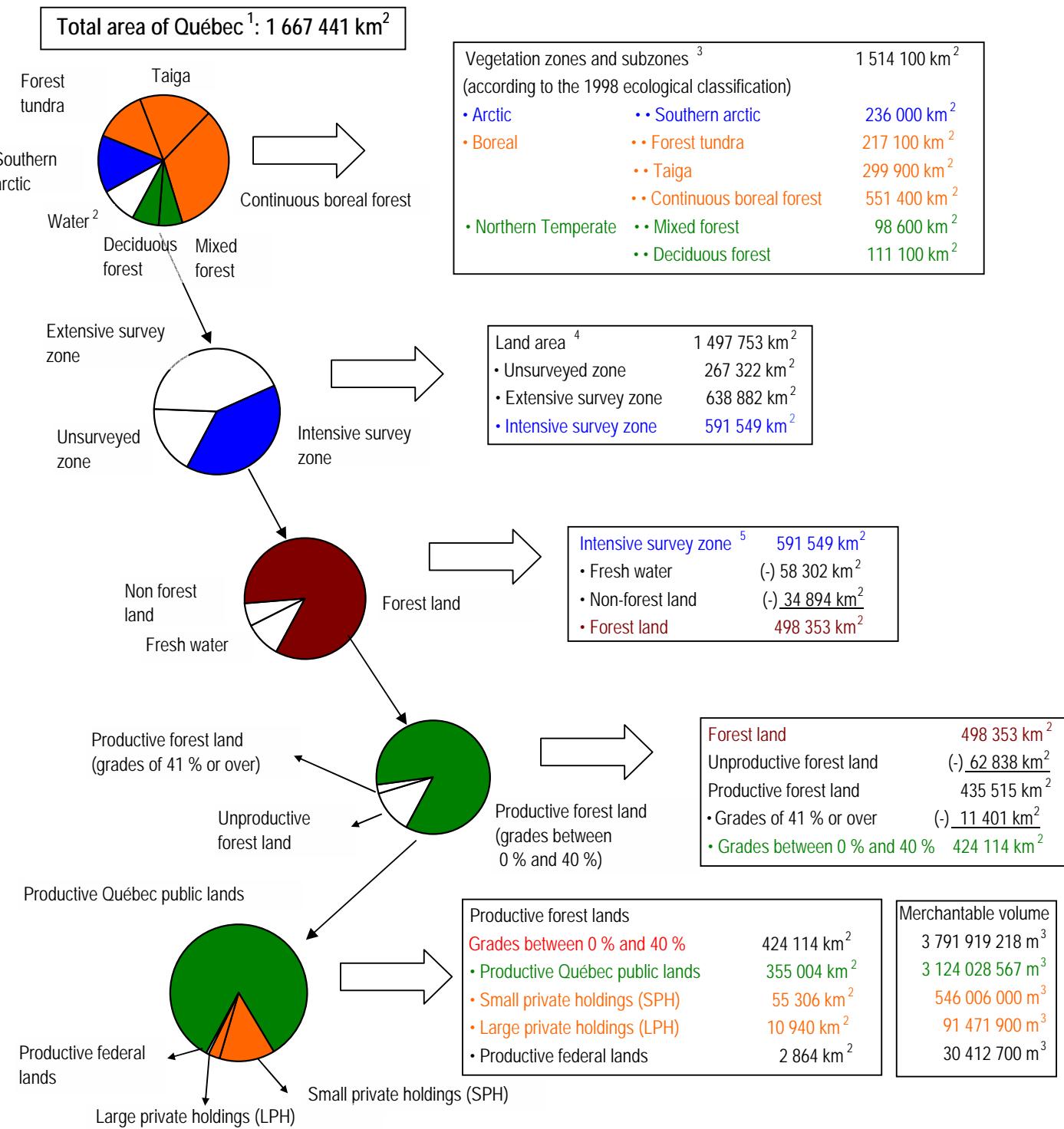
Selling price index

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).

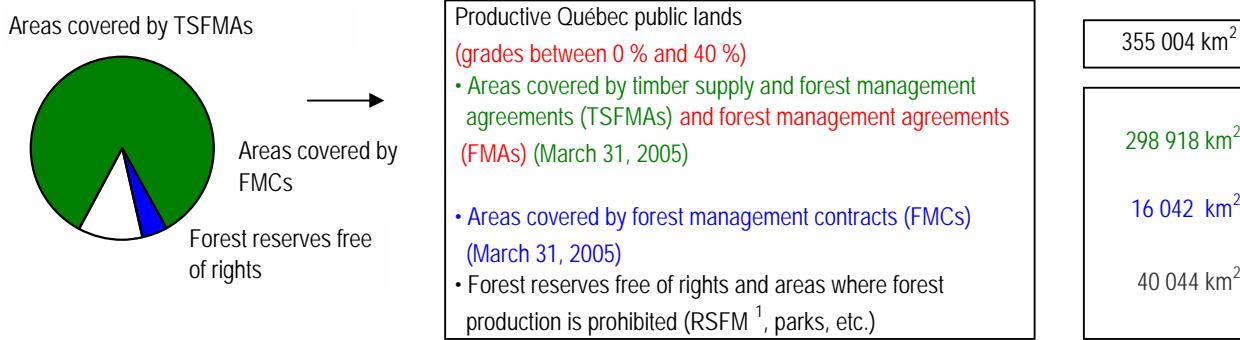
3. The limits of the bioclimatic domains have been revised by the Comité sur la carte des régions écologiques. The committee also established the new ecological land classification system in 1998 (includes inland waters but excludes the waters of the St. Lawrence River downstream of the eastern point 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.

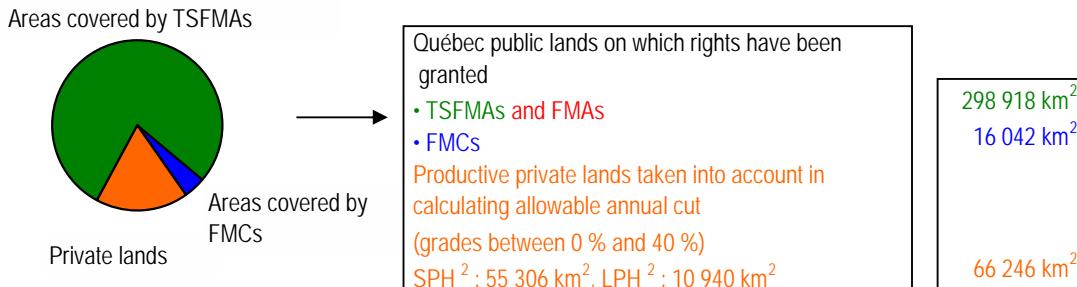
5. Lands whose forests can be developed over 120 years, in keeping with the principle of sustained yield.

Summary (cont'd)

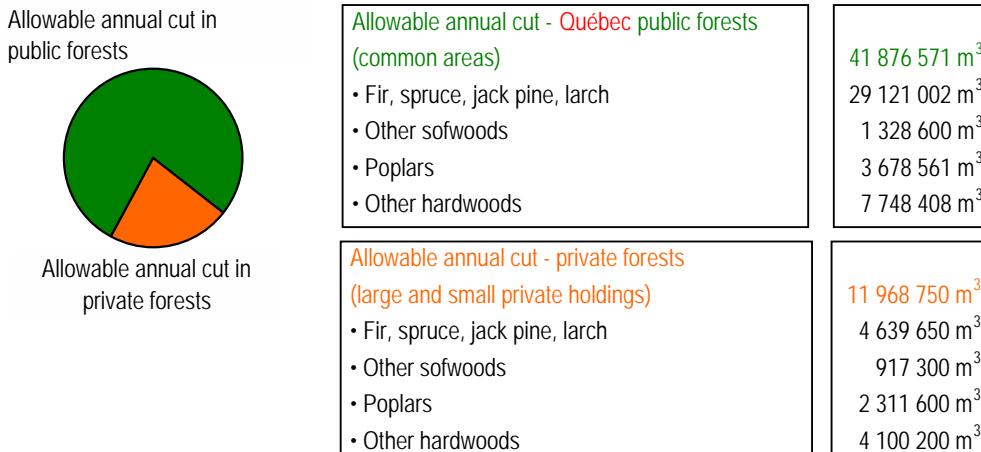
Distribution of productive Québec public lands



Surface areas taken into account in calculating the allowable annual cut (March 31, 2005)



Allowable annual cut (March 31, 2005)



Volumes allocated by TSFMA and FMA in the public forests (March 31, 2005)



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.

Summary (cont'd)

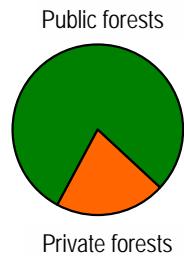
Volumes allocated by FMCs in the public forests (March 31, 2005)

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

752 712 m³

<ul style="list-style-type: none"> 508 153 m³ 1 815 m³ 174 141 m³ 68 603 m³

Timber harvested - volume (2004-2005)



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

43 331 300 m³

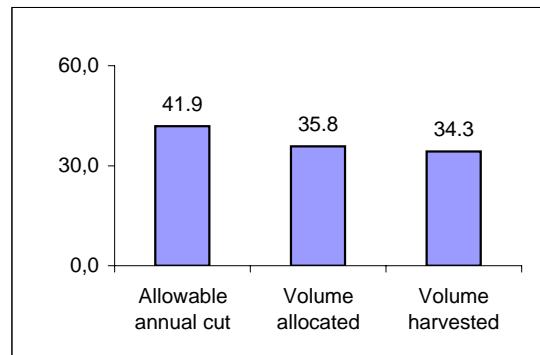
<ul style="list-style-type: none"> 34 272 900 m³ 27 513 100 m³ 571 100 m³ 2 525 200 m³ 3 663 500 m³

Private forests ¹ <ul style="list-style-type: none"> • Fir, spruce, jack pine, larch • Other softwood • Poplars • Other hardwood
--

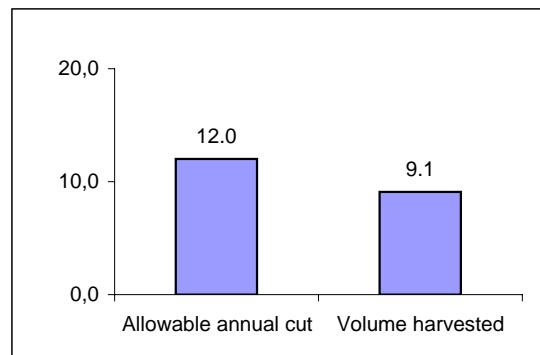
<ul style="list-style-type: none"> 9 058 400 m³ 3 552 000 m³ 488 700 m³ 1 901 200 m³ 3 116 500 m³

1. Estimates.

Public forests (allowable annual cut, volume allocated, volume harvested) (2004-2005)



Private forests (allowable annual cut, volume harvested) (2004-2005)



Summary (cont'd)

Forest protection (2004)

Area affected (ha)		36 828
Spruce budworm		33 740
Hemlock looper		40
Forest fires	Intensive protection zone (mature stands : 990 ha)	258
Limited forest protection		2 790

Silvicultural treatments planned and carried out (2003-2004)

	Planned (ha)	Carried out (ha)
Public forests	670 905	544 545p
Site preparation	59 021	56 514p
Planting and seeding	49 192	60 866p (100 million seedlings)
Non-commercial treatments	167 137	141 624p
Commercial treatments	395 555	285 541p
Private forests	67 430	46 371
Site preparation	...	9 022p
Planting and seeding	12 591	10 675p (23.5 million seedlings)
Non-commercial treatments	7 618	16 839p
Commercial treatments	47 221	9 835p

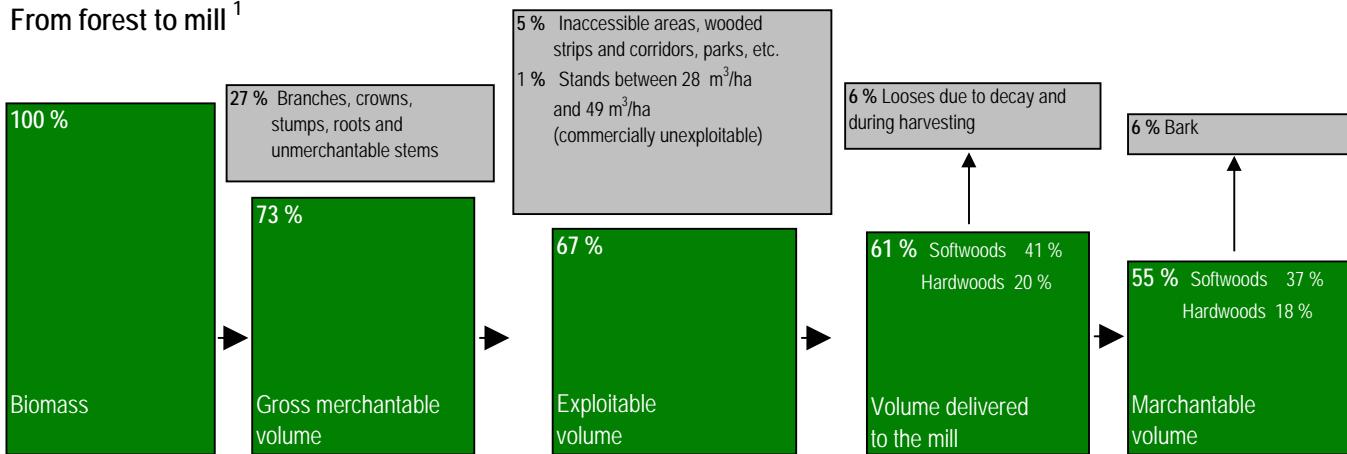
Network of permanent roads (2004-2005)

Total length : 16 647 km (588 bridges)

Experimental, teaching and research forests (2005)

Total area : 65 000 ha

From forest to mill¹



1 : Updated June 2005.

Timber consumption by primary processing plants

	2003	2004
Total Consumption (m³)	71 130 715	72 253 098
Consumption by Species (m³)		
Fir, spruce, jack pine, larch	54 837 357	55 761 477
Other softwoods	2 472 815	2 197 246
Poplars	5 002 060	5 357 288
Other hardwoods	8 818 483	8 937 098
Consumption by Product (m³)		
Roundwood	43 895 850	44 714 550
Chips	19 027 844	19 039 065
Sawdust, shavings and wood residues	8 207 021	8 499 483
Consumption by Source (m³)		
Public forests	30 933 452	32 177 326
Private forests	7 581 580	7 273 495
Exchanges between mills	25 027 126	25 028 064
Outside Québec	7 588 557	7 774 213

Summary (cont'd)

The forest sector in Québec's economy (2003)

	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)	13 377	465 317	2 784 154	913 018	140 200
Wood product manufacturing (NAICS 321)	39 175	1 384 922	9 053 561	3 304 631	567 200
Paper manufacturing (NAICS 322)	29 884	1 620 038	10 882 369	4 190 229	1 697 400
Total (forest sector)	82 436	3 470 277	22 720 084	8 407 878	2 404 800

1. Including purchase of services.

Logging industry (2004)

Number of primary processing plants, including 1 200 sawmills	531
Number of pulp, paper and paperboard mills, 38 of which are included under primary processing plants	65

Forest product production

	2003	2004
Lumber (m ³ , 000s)	19 350p	19 883p
Joint sawmill production (BDMT, 000s)	12 338	12 462p
Chips	7 389	7 449p
Sawdust and shavings	2 174	2 112p
Bark	2 775	2 901p
Pulp and paper production (BDMT, 000s)	9 697	9 814p
Newsprint	3 729	3 488p
Paperboard and paper other than newsprint	4 526	4 907p
Market pulp	1 442	1 419p

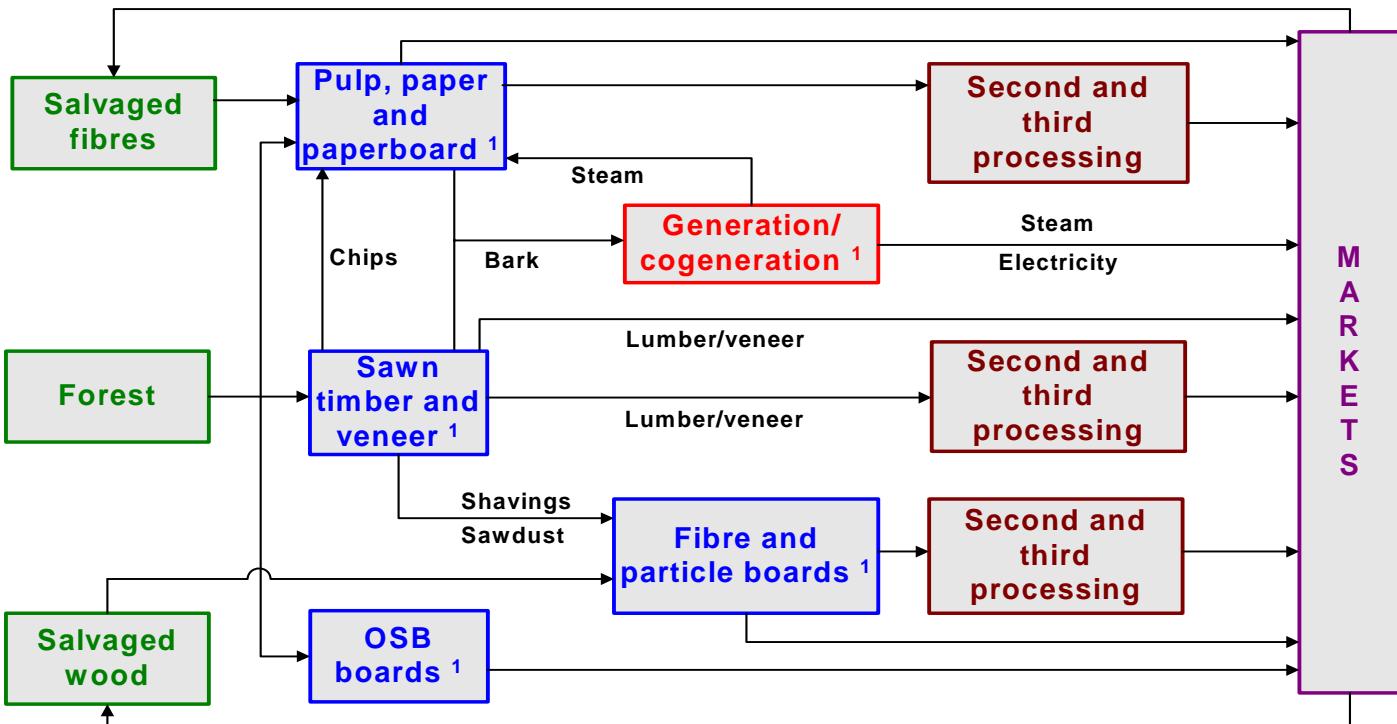
Québec's balance of trade¹ in the forest products sector (\$, million)²

	2004	2005
Wood, charcoal and wooden products	3 693	3 300
Pulp, paper and paperboard	6 066	6 207
Total	9 758	9 507

1. Balance of trade inside and outside Canada. (à vérifier)

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

Integration of the forest products industry



1. Primary processing.

Summary (cont'd) (nouveau)

The forest sector in Québec's economy (2003) (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)	13 377	465 317	2 784 154	913 018	140 200
Wood product manufacturing (NAICS 321)	39 175	1 384 922	9 053 561	3 304 631	567 200
Furniture and related product manufacturing (NAICS 337)	35 026	1 056 872	4 083 036	2 157 188	88 600
Paper manufacturing (NAICS 322)	29 884	1 620 038	10 882 369	4 190 229	1 697 400
Printing and related support activities (NAICS 323)	20 994	828 856	3 365 855	1 850 219	151 900
Total (forest sector)	138 456	5 356 005	30 168 975	12 415 285	2 645 300
Overall manufacturing activity in Québec	546 725	21 502 054	141 623 090	54 164 405	6 902 300

1. Including purchase of services.

Logging industry (2004)

Number of primary processing plants, including 445 sawmills	531
Number of pulp, paper and paperboard mills, 38 of which are included under primary processing plants	65

Forest product production (including furniture and printing)

	2003	2004
Lumber (m ³ , 000s)	19 350p	19 883p
Joint sawmill production (BDMT, 000s)	12 338	12 462p
Chips	7 389	7 449p
Sawdust and shavings	2 174	2 112p
Bark	2 775	2 901p
Pulp and paper production (BDMT, 000s)	9 697	9 814p
Newsprint	3 729	3 488p
Paperboard and paper other than newsprint	4 526	4 907p
Market pulp	1 442	1 419p
Furniture and related product production (\$, 000s)	4 088	4 068
Printing and related support activities industry production (\$, 000s)	3 361	3 463

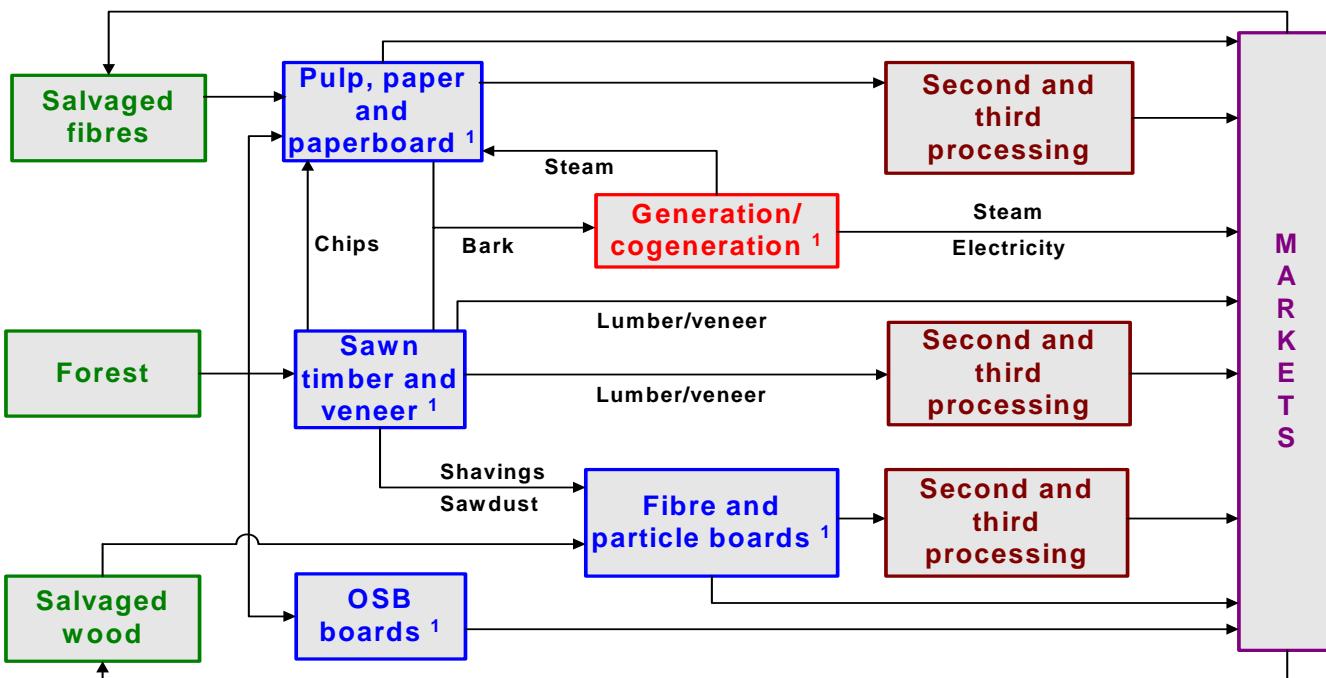
Québec's balance of trade ¹ in the forest products sector (including furniture and printing) (\$, million)²

	2004	2005
Wood product, furniture and related product manufacturing	5 118,5	4 456,1
Pulp and paper, paper and paperboard, converted paper product manufacturing and printing and related support activities mills	6 532,8	6 645,1
Total (forest products sector)	11 651,3	11 101,2

1. Balance of trade inside and outside Canada. (à vérifier)

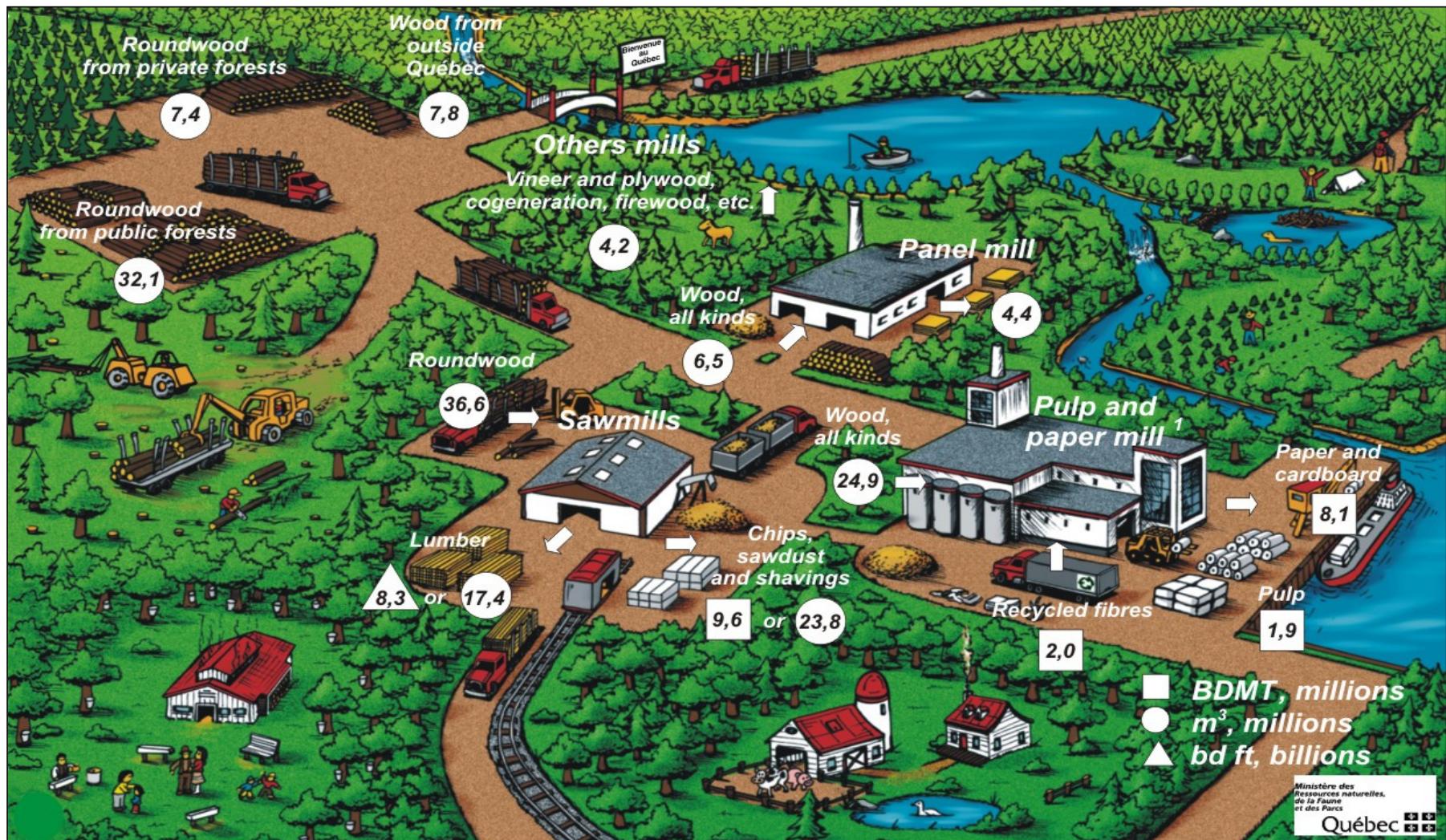
2. According to the North American Industry Classification System (NAICS).

Integration of the forest products industry (nouveau tableau - les données sont récentes et mises à jour)



1. Primary processing.

Supplies for Québec's primary wood processing industry (2004) (nouveau tableau données récentes et mises à jour)



1. Including data from the 2004 annual survey.

Supplies for Québec's primary wood processing industry (2004)

Supplies by source (m³, million)	
Public forests	32,1
Private forests	7,4
Outside Québec	7,8
Total	47,3
Mills consumption (m³, million)	
Panel	6,5
Sawmills	36,6
Pulp and paper	24,9
Other mills	4,2
Total	72,2
Recycled fibres consumption (BDMT, million)¹	
Pulp and paper	2,0
Sawmills Production	
Chips, sawdust and shavings	9,6 (BDMT, million)
Lumber	23,8 (m ³ , million) 8,3 (bd ft, billion) 17,4 (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	4,4

1. Including data from the 2004 annual survey.

QUÉBEC'S FOREST RESOURCES AND INDUSTRY

TABLE OF CONTENTS

Foreword

Note to readers and **important notes**

Symbols used in the Tables and Diagrams,
symbols used and conversion factors

Glossary of main economic terms

Summary

Québec's primary wood processing
industry supplies

1. Geographical distribution of Québec's forests

Highlights

Vegetation zones and subzones

Public land use **planning**

Administrative divisions in Québec's public forests

Types of ownership and survey zones

Private forests

2. Intensive survey zone

Highlights

Area of productive forests (**grades between 0 % and 40 %**)
and available gross merchantable volume

3. Forest protection

Highlights

Insects and diseases

Forest fires

4. Sustainable development of Québec's forests

Highlights

5. Forest management

Highlights

Allowable annual cut

Harvest

Forest dues

Seedling production

Summary of silvicultural treatments carried out

6. Forest use for educational, recreational purposes,
research and experimental
Highlights

7. Non-timber Use
Non-timber forest products (NTFPs)
Highlights

8. Logging
Highlights

9. Timber use
Highlights
Trade with markets outside Québec
in 2003 and 2004

10. Wood industries
Highlights
Overview
The sawmill industry

11. The pulp and paper industry
Highlights
Production capacity
Production
Environment

12. The forest sector in Québec's economy
Highlights
Economic and financial indicators

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, 2005)

	(no.)
Administrative régions	17
Common areas	114
Timber supply and forest management agreements (TSFMA)	229
Forest management agreements (FMAs)	5
Forest management contracts (FMCs)	83

Survey zones

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

Management of private forests (March 31, 2003)

Development agencies (no.)	17
• Productive area (ha, 000s)	6 667
• Number of owners	129 850
• Number of owners in activity	74 015
Syndicates of wood marketing boards (no.)	15

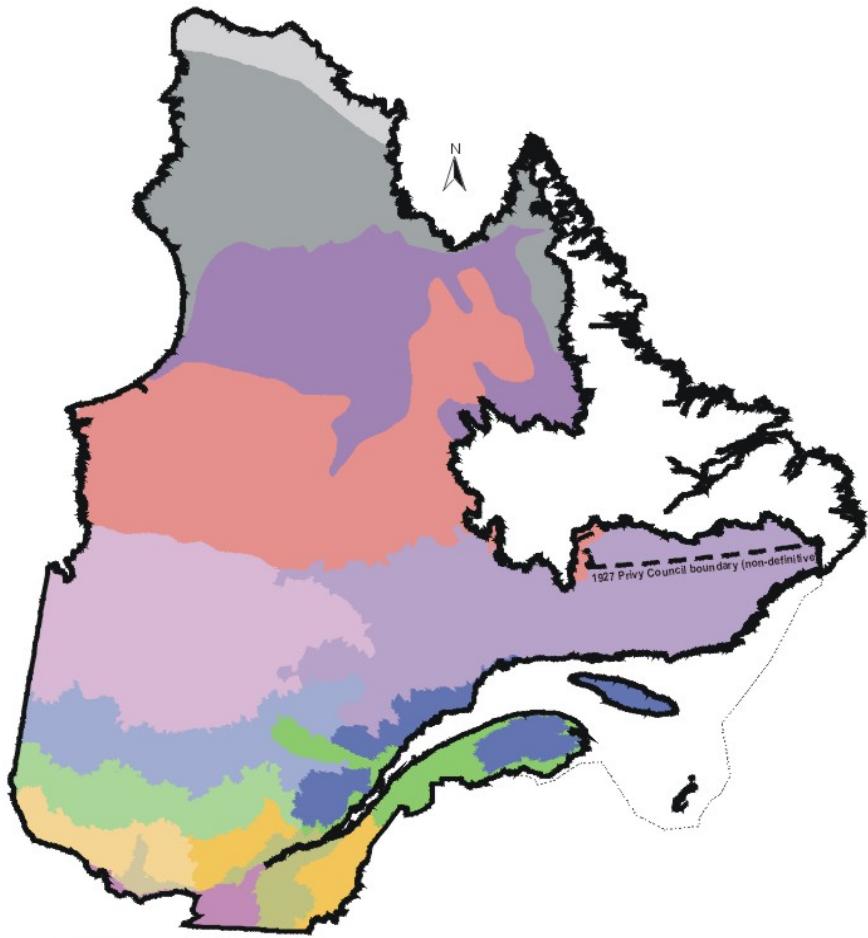
Forest cooperatives (2002-2003)

Forest cooperatives (no.)	53
Members (no.)	2 985
Workers (4 weeks or over)	4 155
Silvicultural work (ha, 000s)	69 677
Harvest (m ³ , 000s)	4 938
Turnover (\$, millions)	301

1 Geographical distribution of Québec's forest (artic ---> arctic dans la carte ci-bas (3X))

Vegetation zones and subzones

01.01.01



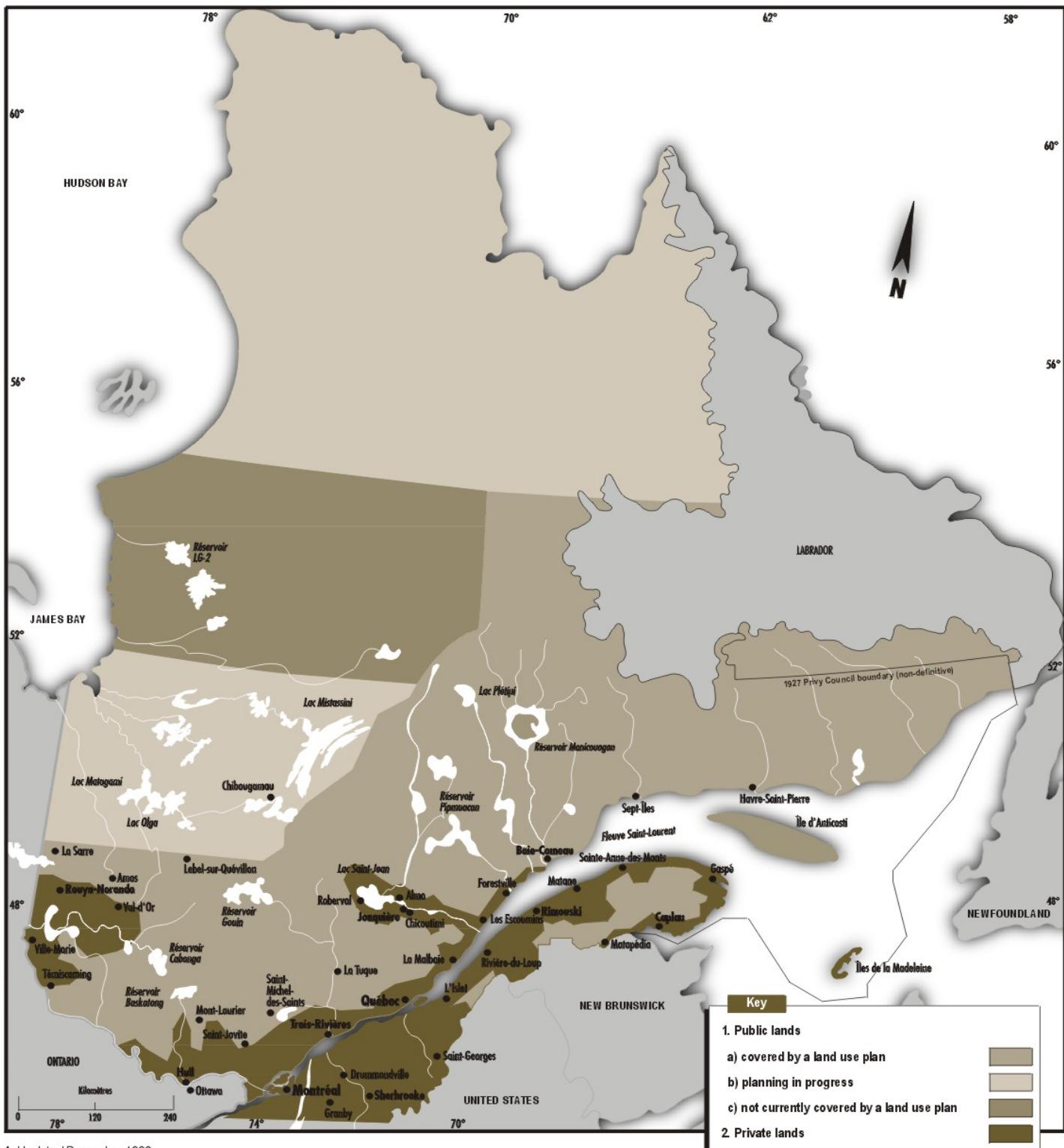
Source : Direction des inventaires forestiers, division écologie - productivité.

1 Geographical distribution of Québec's forests

Public land use planning

Areas subject to the land use planning process¹

01.03.01



1. Updated December 1999.

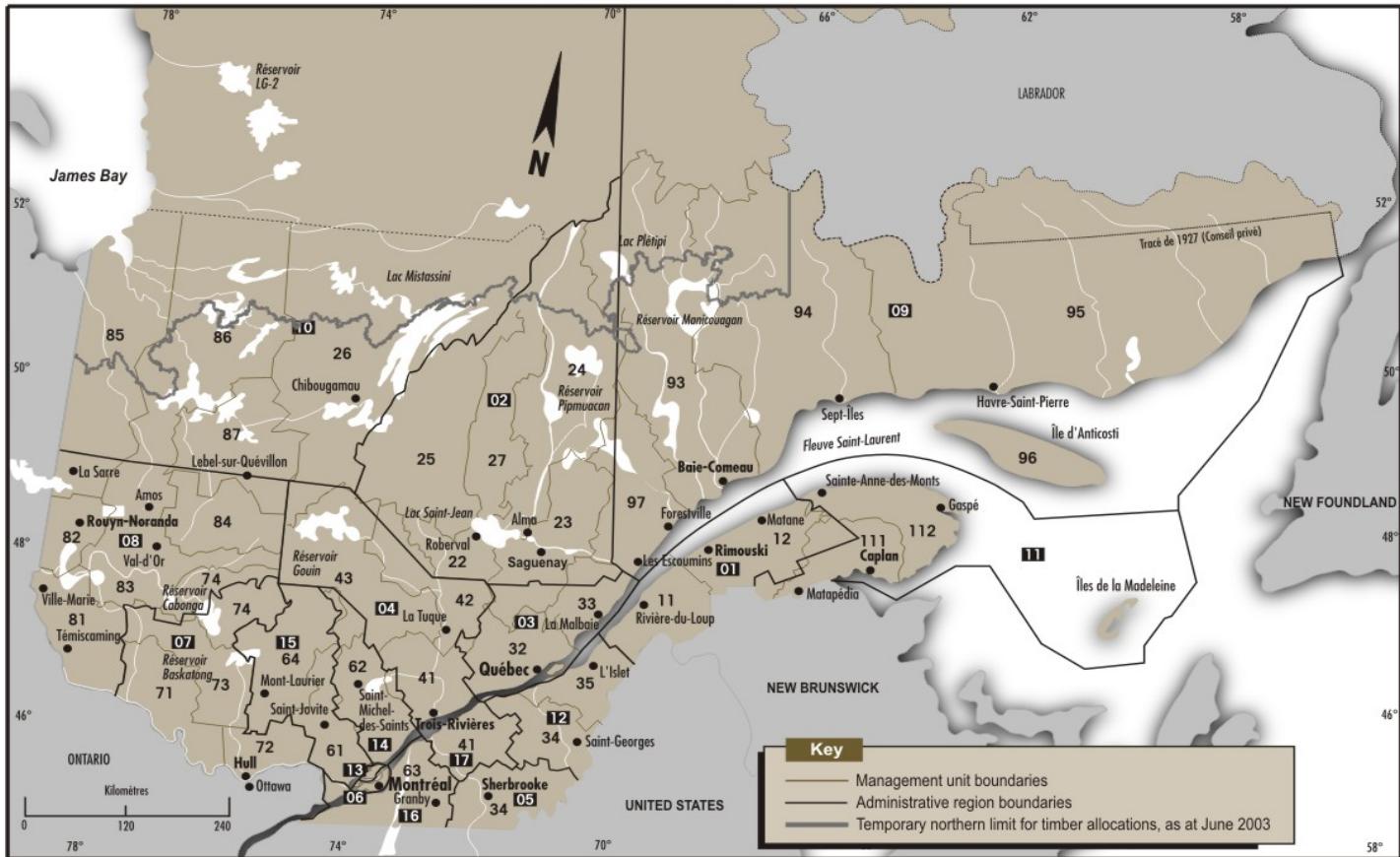
2. Le concept de plan d'affectation du territoire public est actuellement en révision. (à traduire)

Sources : Direction générale de la gestion du territoire public and Service du développement et de l'intégrité du territoire

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

Breakdown of Québec¹ by survey zone and type of ownership²

01.06.02

	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.

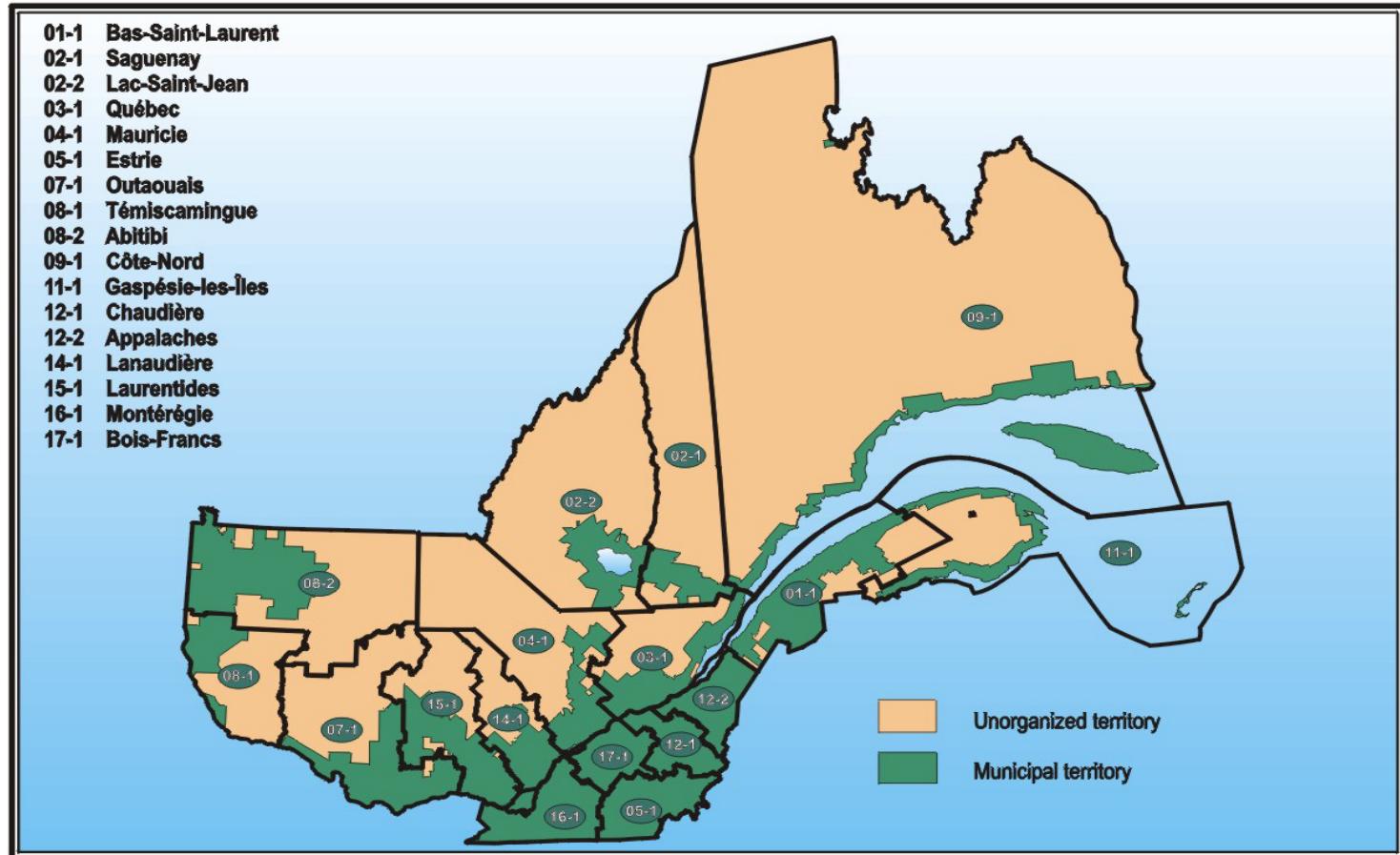
N.B.: Figures have been rounded off, which may have caused negligible errors in the totals.

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.

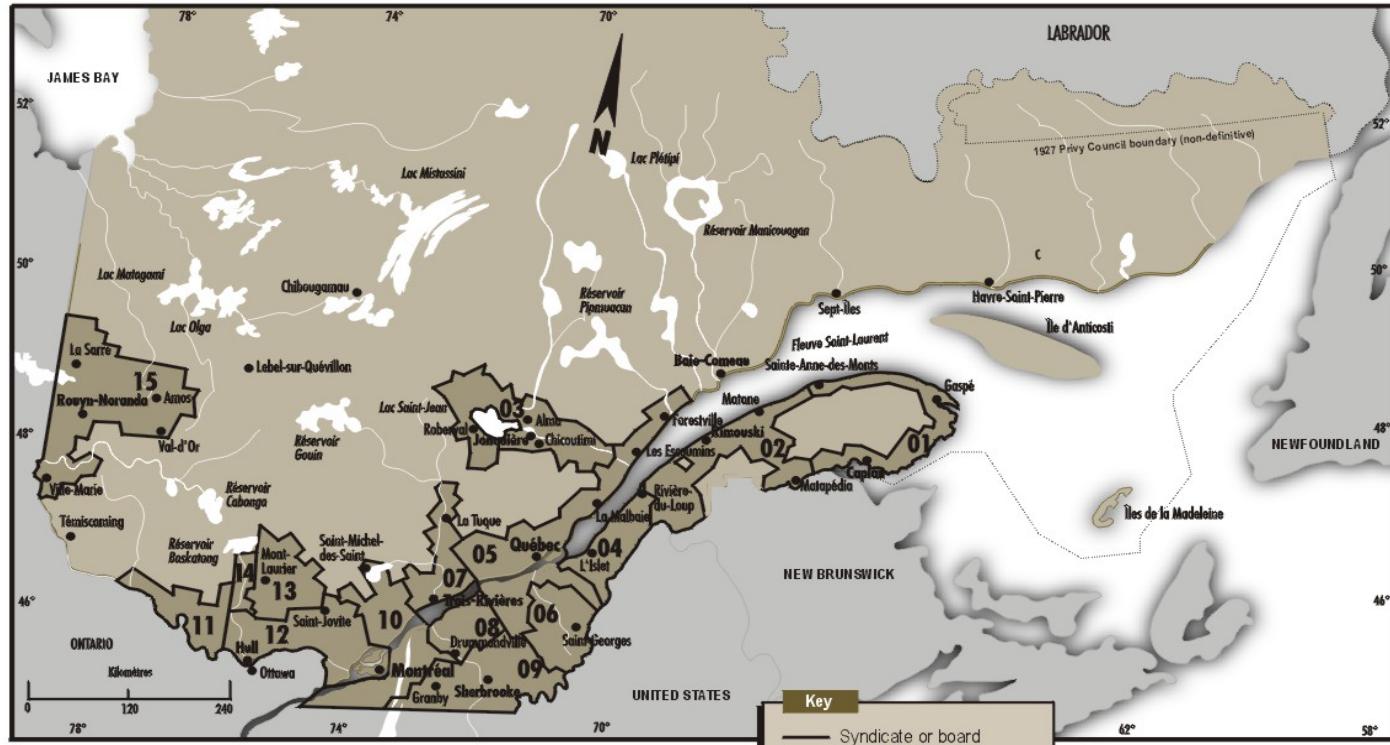
Source : Private Forest Protection and Development Plan (April 2002).

1 Geographical distribution of Québec's forests

Private forests (cont'd)

Areas covered by syndicates and wood marketing boards

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

02.03.01

By age, forest type and administrative region

	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	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		06		07		08		(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	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)

02.03.01

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

	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		14		15		16		17				
	(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)	(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	424 115	3 791 919	
By age	0-10 years	31		1 610	323	1 717	2 241	564	219	787	694	81 487	20 100
	30 years	14	108	879	6 657	1 065	7 695	837	7 790	761	5 078	41 685	194 774
	50 years	15	233	3 042	42 239	6 233	92 904	1 654	23 516	1 790	21 722	83 364	958 296
	70 years	0	1	2 461	38 162	2 822	41 348	114	1 923	37	489	70 213	908 491
	90 years	1	20	1 764	26 919	5 634	93 102	422	8 482	129	2 662	79 255	1 022 017
	120 years			135	1 446	340	4 427					68 112	688 241
By forest type	Softwood			1 399	15 153	2 450	25 815	212	2 936	548	4 150	205 237	1 848 406
	Mixedwood	8	63	4 838	58 891	6 328	86 264	815	11 159	973	10 031	109 889	1 091 929
	Hardwood	25	299	3 320	41 702	8 617	129 638	2 255	27 835	1 705	16 463	69 236	851 584
	Regenerating	28			335		416		310		279		39 753
Québec public lands²			7 596	88 090	12 995	174 262	23	227	67	648	355 004	3 124 029	
By age	0-10 years			1 264	249	1 093	1 331	7	2	11	4	66 482	9 922
	30 years			635	4 272	861	5 863	5	46	12	79	31 382	116 923
	50 years			1 755	23 796	3 326	47 417	6	92	38	463	52 018	556 621
	70 years			2 159	33 552	2 434	34 885	0	5	3	37	64 938	837 342
	90 years			1 648	24 775	4 947	80 471	5	83	4	66	73 059	924 473
	120 years			135	1 446	334	4 296					67 125	678 749
By forest type	Softwood			1 240	13 244	2 091	21 559	1	11	14	123	191 640	1 733 097
	Mixedwood			3 959	47 633	4 787	63 208	3	31	28	309	85 049	837 749
	Hardwood			2 170	27 213	5 938	89 496	15	185	22	216	44 225	553 183
	Regenerating			228		179		4		4			34 090
Small private holdings²	61	362	2 287	27 560	4 567	64 130	3 479	40 601	3 377	29 413	55 307	546 006	
By age	0-10 years	31		345	74	587	908	539	200	763	681	12 170	9 831
	30 years	14	108	244	2 383	185	1 652	825	7 677	739	4 936	8 648	68 892
	50 years	15	233	1 285	18 418	2 785	43 596	1 609	22 826	1 731	21 019	26 933	348 900
	70 years	0	1	302	4 597	354	5 943	111	1 876	32	415	3 645	50 470
	90 years	1	20	112	2 088	650	11 901	395	8 021	112	2 362	3 850	67 473
	120 years				6	131						61	440
By forest type	Softwood			159	1 909	335	3 946	210	2 917	524	3 974	8 574	72 880
	Mixedwood	8	63	876	11 224	1 466	21 917	807	11 044	930	9 541	20 489	213 539
	Hardwood	25	299	1 146	14 428	2 560	38 267	2 169	26 640	1 652	15 898	21 774	259 586
	Regenerating	28		107		207		293		271			4 470
Large private holdings²			2	35	29	500	31	502	55	517	10 940	91 472	
By age	0-10 years		0		0	1	3	8	13	9		2 545	316
	30 years				2	23	1	7	10	60		1 535	8 297
	50 years		1	9	11	187	11	182	17	180		3 615	42 480
	70 years		0	6	4	69	1	25	2	35		1 209	15 277
	90 years		1	19	11	221	16	281	13	234		1 511	20 257
	120 years				6	131						524	4 846
By forest type	Softwood				3	34	1	8	9	48		3 972	33 518
	Mixedwood		1	15	9	173	3	58	15	174		3 523	30 091
	Hardwood		1	19	17	293	27	436	27	294		2 451	27 863
	Regenerating				0		0		5				994
Federal lands²	7	61	221	2 824	58	600	5	67			2 864	30 413	
By age	0-10 years		2		37	1	16	10	1			290	31
	30 years		0	2	17	158	7	60	0	5		120	663
	50 years		1	16	111	1 704	29	416	4	61		797	10 296
	70 years		0	5	30	452	1	17	0	1		420	5 402
	90 years		3	37	26	509	5	96				836	9 814
	120 years				6	131						402	4 207
By forest type	Softwood		1	0	22	275			1	5		1 050	8 912
	Mixedwood	2	19	66	966	2	26	1	7			828	10 550
	Hardwood	3	42	103	1 582	44	574	4	55			786	10 951
	Regenerating			30		12		0				200	

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 disturbed by the spruce budworm (ha, 000s)

	2004	2005
Light defoliation	2,8	4,1
Moderate defoliation	4,4	13,4
Severe defoliation	26,5	31,2
Total area disturbed	33,7	48,7

Areas disturbed by the hemlock looper (ha)

	2004	2005
Light defoliation	0	0
Moderate defoliation	0	0
Severe defoliation	36	8
Total area disturbed	36	8

Forest fires

	2003	2004
Intensive protection zone		
• Fires (no.)	627	300
• Area disturbed (ha, 000s)	9,1	0,3
• Fire control and firefighting costs (\$, million)	62,7	50,5
• Relative importance of fires caused by lightning ¹ (%)		
- Number		32
- Area disturbed		81
Limited protection zone		
• Fires (no.)	89	19
• Area disturbed (ha, 000s)	78,8	2,8
• Fire control and firefighting costs (\$, million)	1,4	0,8

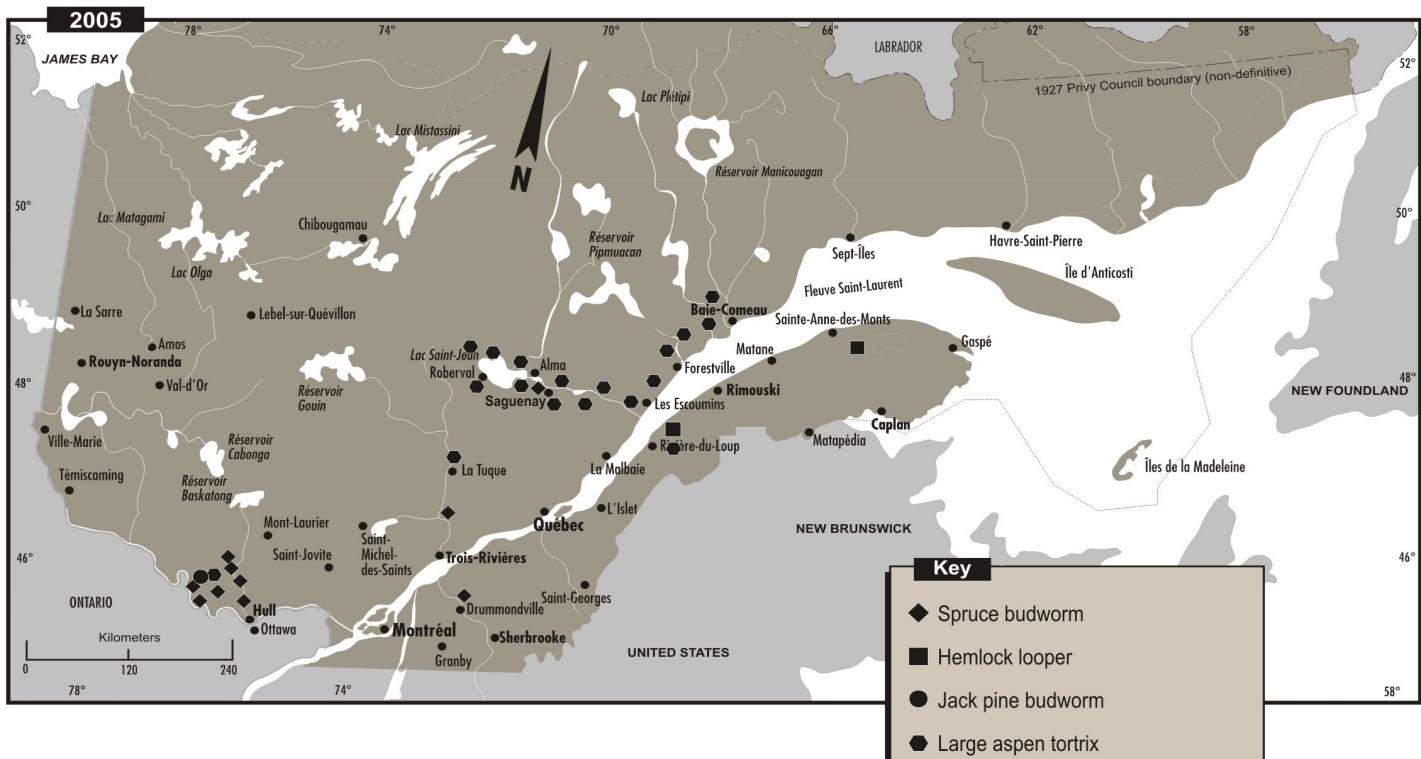
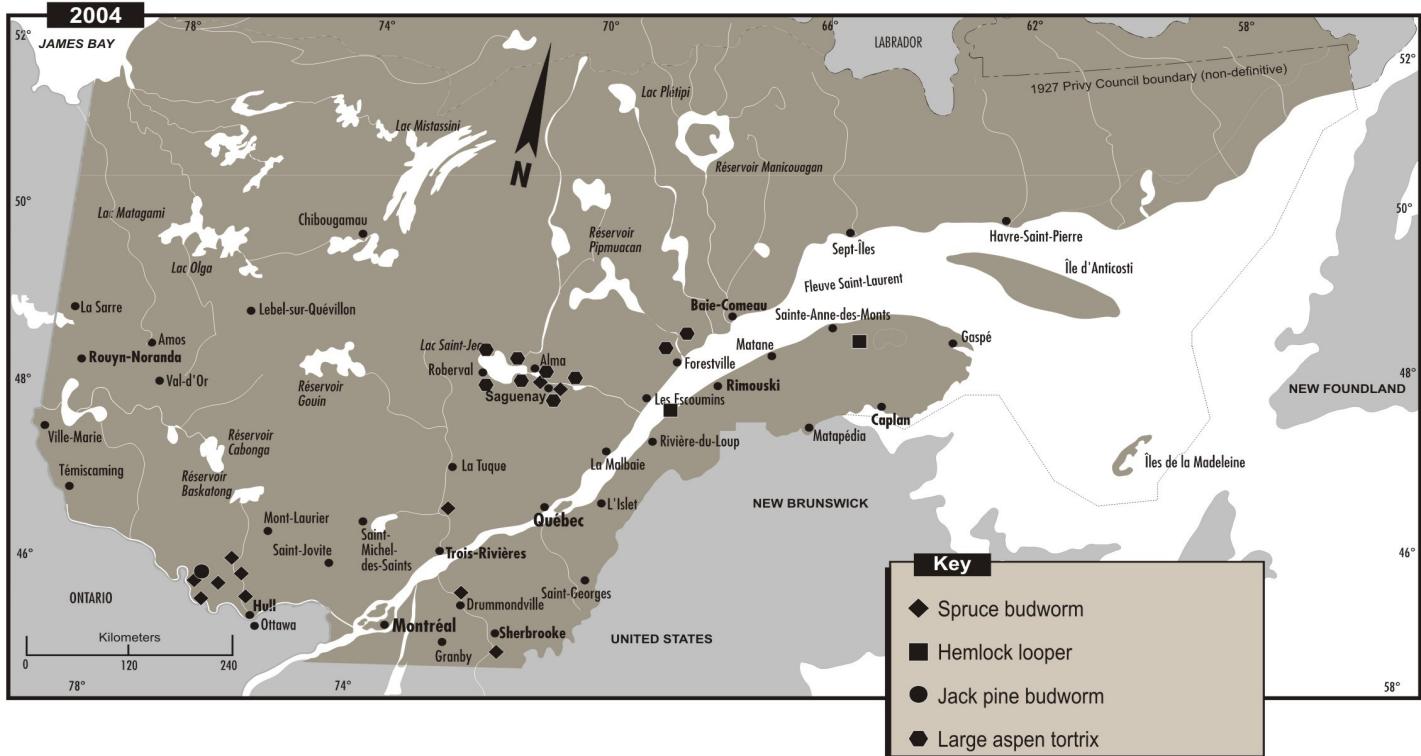
1. Lightning was the main cause of forest fires in Québec during the period 1995-2004.

3 Forest protection in Québec

Insects and diseases

Areas damaged by defoliator insects

03.03.01

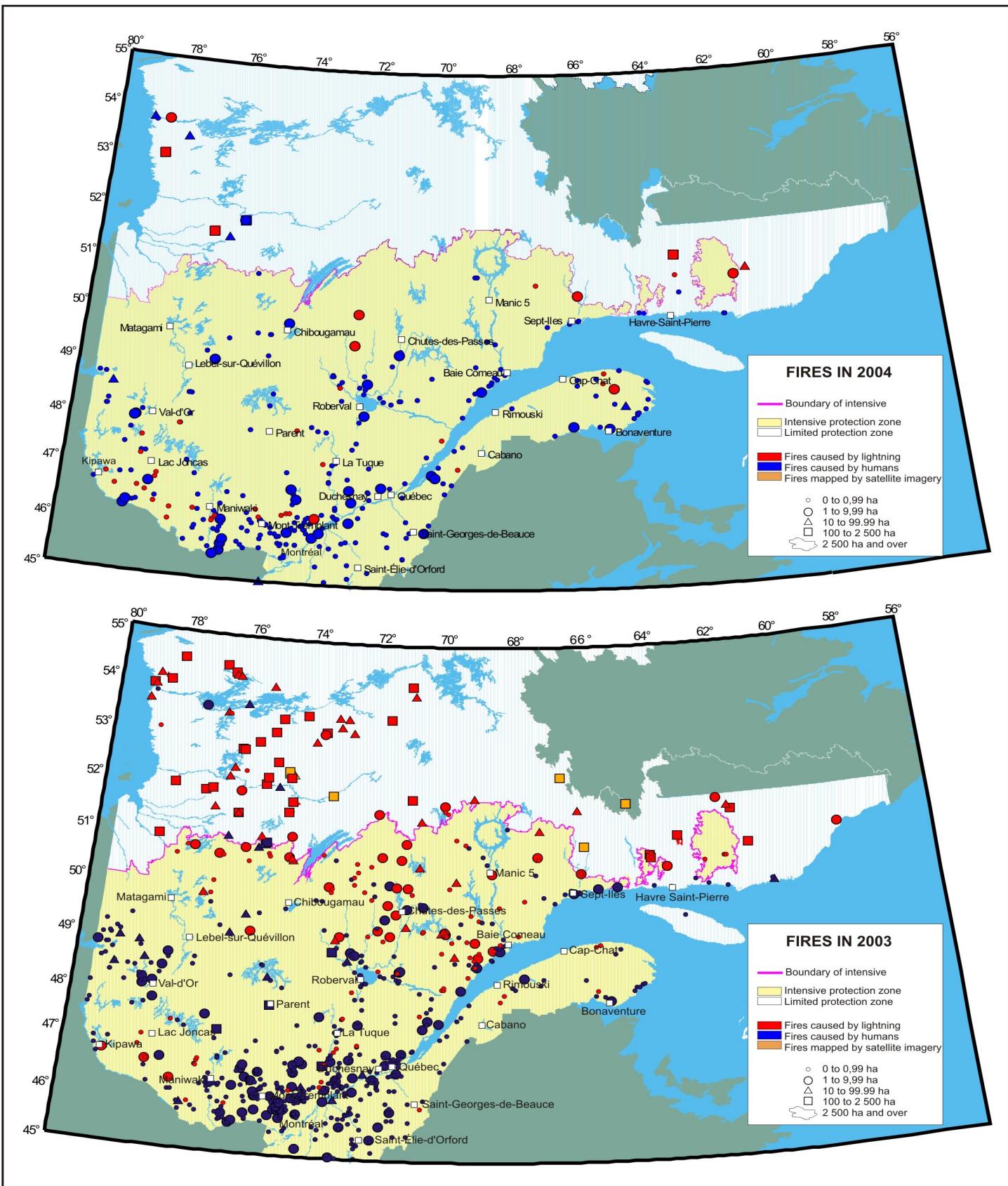


3 Forest protection in Québec

Forest fires

Areas damaged by fires

03.04.01



3 Forest protection in Québec

Forest fires (cont'd)

Intensive protection zone

03.04.07

Breakdown of forest fires by administrative region

Administrative regions	1999	2000	2001	2002	2003	2004	Total
01 Bas-Saint-Laurent	no. 36	16	19	21	13	5	110
	ha 89	1	2	79	3	1	175
02 Saguenay—Lac-Saint-Jean	no. 122	78	91	121	89	27	528
	ha 2 374	114	361	90 809	6 760	29	100 447
03 Capitale-Nationale	no. 24	36	54	50	34	9	207
	ha 5 204	46	25	14	40	3	5 332
04 Mauricie ¹	no. 80	34	56	90	67	29	356
	ha 80	12	83	74	566	13	828
05 Estrie	no. 24	14	54	12	16	6	126
	ha 48	2	39	4	11	0	104
06 Montréal	no.						0
	ha						0
07 Outaouais	no. 103	41	131	98	49	38	460
	ha 39	60	56	36	254	18	463
08 Abitibi-Témiscamingue	no. 119	72	178	94	51	33	547
	ha 429	31	233	91	153	33	970
09 Côte-Nord	no. 134	48	59	58	72	24	395
	ha 18 913	345	6	6 359	484	12	26 119
10 Nord-du-Québec	no. 59	32	49	54	35	10	239
	ha 421	98	363	134 820	621	5	136 328
11 Gaspésie—Îles-de-la-Madeleine	no. 45	22	25	25	15	23	155
	ha 24	9	11	79	4	72	199
12 Chaudière-Appalaches	no. 33	7	25	36	27	14	142
	ha 10	4	11	9	14	8	56
13 Laval	no. 2						2
	ha						0
14 Lanaudière	no. 87	25	88	44	52	33	329
	ha 41	19	35	20	48	24	187
15 Laurentides	no. 84	38	78	61	69	37	367
	ha 31	46	53	23	37	7	197
16 Montérégie	no. 36	6	41	23	16	7	129
	ha 94	6	64	21	18	31	234
17 Centre-du-Québec	no. 17	6	22	16	22	5	88
	ha 11	1	16	5	35	2	70
Total	no. 1 005	475	970	803	627	300	4 180
	ha 27 807	794	1 358	232 443	9 048	258	271 708

1. La répartition des feux a été faite en fonction du découpage actuel des régions administratives soit les limites des régions administratives de novembre 2004. (à traduire)

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, 2005)

Allowable annual cut - public forests (common areas) (softwoods : 72.7 %, hardwoods : 27.3 %)	41 876,6
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	54 496,9

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

(March 31, 2005)

Productive public forests ¹ - TSFMA and FMA	29 891,8
- FMCs	1 604,2
Productive private forests ¹ (regional agencies)	6 624,6
Total	38 120,6

1. Grades between 0 % and 40 %.

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

(March 31, 2005)

Timber supply and forest management agreements (TSFMA) and Forest management agreements (FMAs)	35 774,3
Forest management contracts (FMCs)	752,7
Total	36 527,0

Number of common areas and timber supply and forest management agreements

(March 31, 2005)

Common areas	114
Timber supply and forest management agreements (TSFMA) and Forest management agreements (FMAs)	234
Forest management contracts (FMCs)	83
Total	43332

Volume of timber harvested in Québec (2004-2005) (m3, 000s)

Public forests	34 273p
Private forests (estimate) ¹ • Volumes marketed by syndicates and marketing boards	9 059p 6 262
Total	43 332
Volumes harvested/allowable annual cut ²	
• Softwoods	89,2%
• Hardwoods	62,8%
Total	80,5%

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

2004-2005 (ha, 000s)

Public forests	299,2
Private forests (estimate)	85,0
Total	384,2
Total size of cutting areas/productive forest area ¹	1,01 %

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)
2002-2003	9,99
2003-2004	11,44
Total	12,72

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

	2003-2004	2004-2005p
Rail	41,2 %	41,1 %
Truck	55,4 %	56,6 %
Ship	3,3 %	2,3 %
Total	100 %	100 %

Network of permanent forest roads in Québec (2004-2005)

Length (km)	16 647p
Bridges (no.)	588p

Québec's production of seedlings for reforestation

	2003-2004	2004-2005p
Cones harvested (hl)	2 968,2	1 530,9p
Area of seed tree orchards (ha)	1 349,4p	1 349,4p
Seedlings produced (000s)	137 456,0p	138 995,0p
• MRNF nurseries	33 302,0p	35 632,0p
• Privately owned nurseries	104 154,0p	103 363,0p

Reforestation in Québec

	(seedlings, 000s)	(ha, 000s)
Public forests	2001-2002r	108 457
	2002-2003r	106 088
	2003-2004p	99 805
Private forests	2001-2002r	26 981
	2002-2003r	26 311
	2003-2004p	23 486
Total	2001-2002r	135 438
	2002-2003r	132 399
	2003-2004p	123 291

5 Forest Management

Highlights (cont'd)

05.00.01

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

Public forests	2001-2002r	50,2
	2002-2003r	51,1
	2003-2004p	56,5
Private forests	2001-2002r	9,2
	2002-2003r	9,1
	2003-2004p	9,0
Total	2001-2002r	59,4
	2002-2003r	60,2
	2003-2004p	65,5

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

Public forests	2001-2002r	111,0
	2002-2003r	111,5
	2003-2004p	141,6
Private forests	2001-2002r	20,6
	2002-2003r	17,6
	2003-2004p	16,8
Total	2001-2002r	131,6
	2002-2003r	129,1
	2003-2004p	158,5

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

Public forests	2001-2002r	294,4
	2002-2003r	322,1
	2003-2004p	285,5
Private forests	2001-2002r	10,5
	2002-2003r	10,0
	2003-2004p	9,8
Total	2001-2002r	304,9
	2002-2003r	332,1
	2003-2004p	295,4

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 (2004-2005).

2. Silvicultural treatments planned in the private forests (2000-2005).

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

Public forests	2001-2002r	536,8
	2002-2003r	559,7
	2003-2004r	544,5
	2004-2005p	554,5
Private forests	2001-2002	52,6
	2002-2003	48,7
	2003-2004	46,4
	2004-2005p	47,7
Total	2001-2002r	589,4
	2002-2003r	608,4
	2003-2004r	590,9
	2004-2005p	602,2

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, 2005 (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	930 919	42 223	109 878	240 603	1 323 623	-	-	-	-	-	-
02 Saguenay—Lac-Saint-Jean	7 480 453	4 598	646 122	953 841	9 085 014	-	-	-	-	-	-
03 Capitale-Nationale	857 753	8 688	99 313	271 560	1 237 315	-	-	-	-	-	-
04 Mauricie	2 621 700	55 372	475 141	1 021 702	4 173 915	-	-	-	-	-	-
05 Estrie	32 223	2 644	5 944	42 947	83 758	-	-	-	-	-	-
06 Montréal						-	-	-	-	-	-
07 Outaouais	815 528	568 007	432 544	1 620 590	3 436 669	-	-	-	-	-	-
08 Abitibi-Témiscamingue	3 462 318	442 140	697 730	1 389 396	5 991 583	-	-	-	-	-	-
09 Côte-Nord	4 857 260	700	276 094	428 683	5 562 737	-	-	-	-	-	-
10 Nord-du-Québec	5 194 850		474 714	245 498	5 915 063	-	-	-	-	-	-
11 Gaspésie—Îles-de-la-Madeleine	1 524 856	36 522	143 672	134 247	1 839 297	-	-	-	-	-	-
12 Chaudière-Appalaches	155 804	17 717	24 416	54 011	251 948	-	-	-	-	-	-
13 Laval						-	-	-	-	-	-
14 Lanaudière	537 547	31 369	157 135	377 190	1 103 241	-	-	-	-	-	-
15 Laurentides	649 075	118 572	135 810	967 616	1 871 073	-	-	-	-	-	-
16 Montérégie						-	-	-	-	-	-
17 Centre-du-Québec	716	48	48	524	1 336	-	-	-	-	-	-
Total	29 121 002	1 328 600	3 678 561	7 748 408	41 876 571	-	-	-	-	-	-

Allowable annual cut³ by administrative region⁴ on March 31, 2005 (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 PPDF.

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

5 Forest management

Allowable annual cut (cont'd)

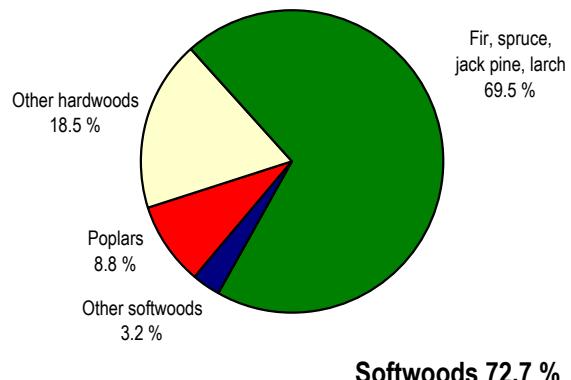
Breakdown of allowable annual cut by species (2005)

05.01.02

05.01.03

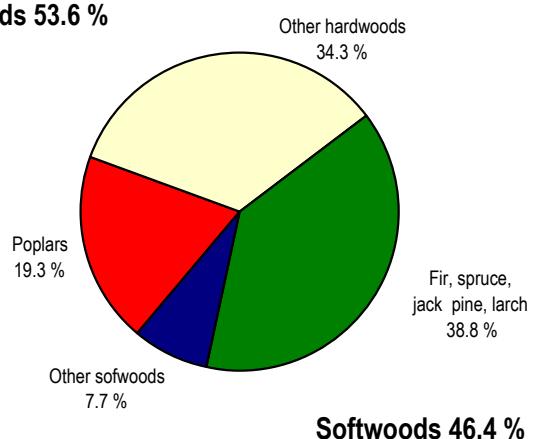
Public forests (allowable annual cut in common areas)

Hardwoods 27.3 %



Private forests (allowable annual cut in agency territories)

Hardwoods 53.6 %



5 Forest management

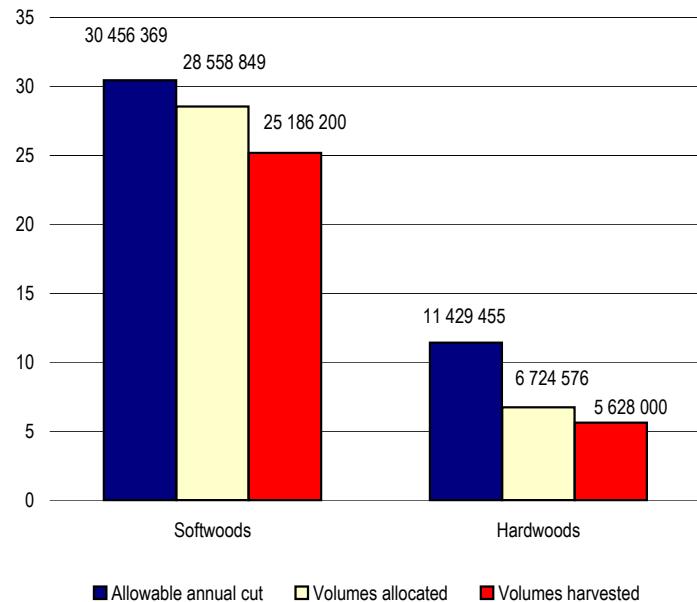
Allowable annual cut (cont'd)

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

By species group (2003-2004)

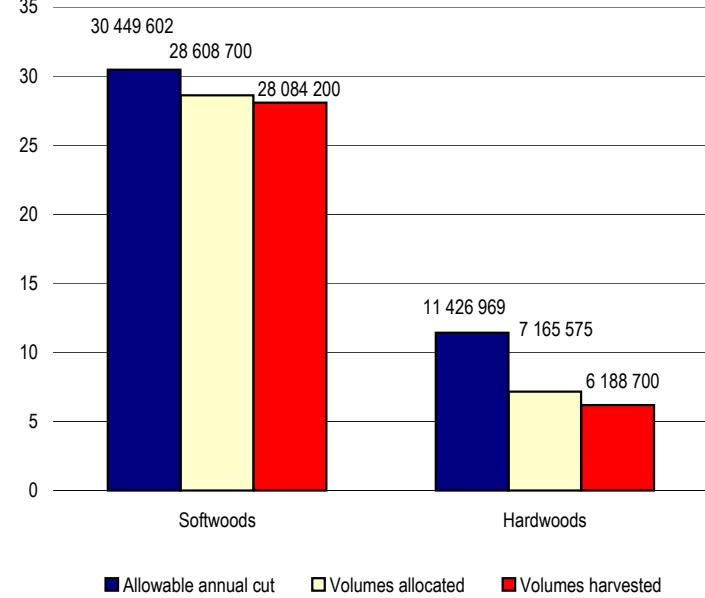
(m³, million)

05.01.10



By species group (2004-2005)

(m³, million)

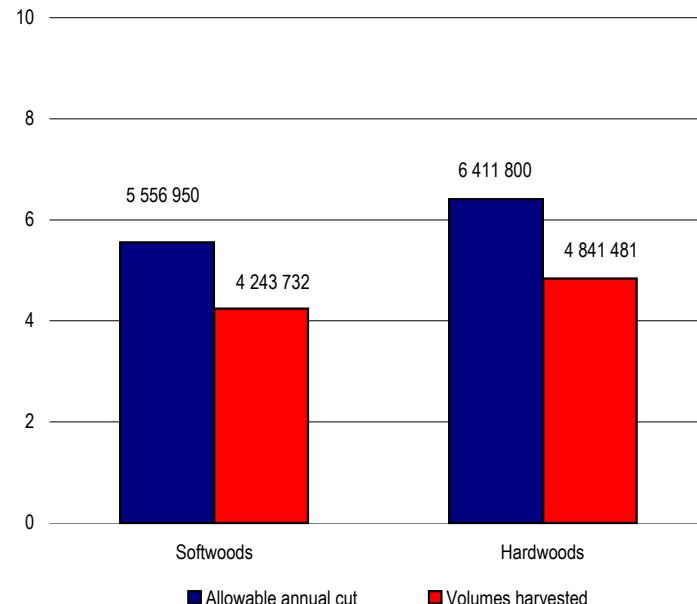


Allowable annual cut/volumes harvested ¹ (private forests)

By species group (2003-2004)

(m³, million)

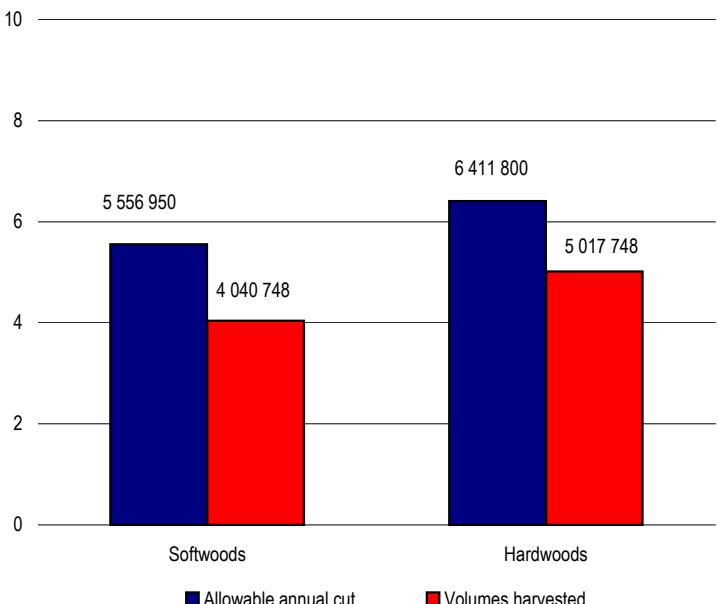
05.01.11



Allowable annual cut/volumes harvested ¹ (private forests)

By species group (2004-2005)

(m³, million)



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 Aménagement forestier

5.1 Possibilité forestière (suite)

Possibilité forestière/volumes attribués (aires communes)/volumes récoltés (forêts publiques)

05.01.10 (g)

Selon les groupes d'essences (2003-2004)

	Allowable annual cut (Mm ³)	Volumes allocated (Mm ³)	Volumes harvested (Mm ³)
Softwoods	30,46	28,56	25,19
Hardwoods	11,43	6,72	5,63

Selon les groupes d'essences (2004-2005)

	Allowable annual cut (Mm ³)	Volumes allocated (Mm ³)	Volumes harvested (Mm ³)
Softwoods	30,45	28,61	28,08
Hardwoods	11,43	7,17	6,19

Possibilité forestière/volumes récoltés (forêts privées)

05.01.11 (g)

Selon les groupes d'essences (2003-2004)

	Allowable annual cut (Mm ³)	Volumes harvested ¹ (Mm ³)
Softwoods	5,56	4,24
Hardwoods	6,41	4,84

1. Y compris une approximation des volumes de bois de chauffage récoltés (1,9 Mm³ de feuillus).

Possibilité forestière/volumes récoltés (forêts privées)

Selon les groupes d'essences (2004-2005)

	Allowable annual cut (Mm ³)	Volumes harvested ¹ (Mm ³)
Softwoods	5,56	4,04
Hardwoods	6,41	5,02

1. Y compris une approximation des volumes de bois de chauffage récoltés (1,9 Mm³ de feuillus).

5 Forest management

Harvest

Volume of timber harvested in public and private forests

05.02.01

A) By tenure and species group

	2000-2001	2001-2002	2002-2003	2003-2004	2004-2005			
	Total	Total	Total	Total	Total			
	(m3, 000s)	(%)	(m3, 000s)	(%)	(m3, 000s)	(%)	(m3, 000s)	(%)
Total	42 378r	100	40 157r	100	41 175r	100	39 899	100
Softwoods	32 142r	76	29 826r	74	31 261r	76	29 430	74
Hardwoods	10 236r	24	10 331r	26	9 914r	24	10 469	26
Québec public lands¹	32 057r	100	30 306r	100	31 288r	100	30 814	100
Softwoods	26 986r	84	25 139r	83	26 481r	85	25 186	82
Hardwoods	5 071r	16	5 167r	17	4 807r	15	5 628	18
Private holdings²	10 321r	100	9 851r	100	9 887r	100	9 085	100
Softwoods	5 156r	50	4 687r	48	4 780r	48	4 244	47
Hardwoods	5 165r	50	5 164r	52	5 107r	52	4 841	53
							5 018p	55

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)

2002-2003

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	885,4	29,8	915,2	108,2	162,6	270,8	764,1	63,3	827,5	458,9	256,8	715,7
02 Saguenay—Lac-Saint-Jean	6 725,8	0,0	6 725,8	57,5	264,8	322,2	248,9	2,0	250,8	42,7	44,9	87,6
03 Capitale-Nationale	763,3	0,8	764,1	12,0	72,8	84,9	381,7	25,0	406,7	99,4	243,5	343,0
04 Mauricie	2 651,2	35,3	2 686,5	309,4	378,9	688,3	407,5	33,1	440,6	35,5	155,8	191,3
05 Estrie	5,8	0,2	6,0	1,4	11,9	13,2	500,0	108,4	608,4	125,5	537,2	662,7
06 Montréal	-	-	-	-	-	-	-	-	-	-	-	-
07 Outaouais	518,8	363,4	882,2	332,4	708,4	1 040,8	133,3	101,8	235,1	244,2	438,3	682,5
08 Abitibi-Témiscamingue	2 531,0	178,3	2 709,3	453,1	319,8	772,9	215,1	3,2	218,3	311,3	19,7	331,0
09 Côte-Nord	3 991,1	0,1	3 991,1	8,9	16,6	25,5	146,7	0,3	146,9	11,4	7,0	18,4
10 Nord-du-Québec	5 161,7	-	5 161,7	292,6	4,6	297,3	-	-	-	-	-	-
11 Gaspésie—Îles-de-la-Madeleine	1 240,9	29,5	1 270,4	142,8	92,9	235,7	141,3	21,2	162,6	69,0	55,2	124,3
12 Chaudière-Appalaches	144,2	9,1	153,3	19,4	25,1	44,5	776,9	104,0	880,9	175,5	465,4	640,9
13 Laval	-	-	-	-	-	-	-	-	-	-	-	-
14 Lanaudière	642,8	15,2	658,1	134,1	239,2	373,3	68,5	37,9	106,4	37,5	156,3	193,8
15 Laurentides	516,5	39,2	555,6	98,7	537,4	636,0	147,1	49,2	196,3	145,0	379,1	524,1
16 Montérégie	-	-	-	-	-	-	22,5	33,1	55,6	45,9	272,6	318,4
17 Centre-du-Québec	1,5	0,2	1,8	0,1	1,0	1,1	192,2	51,5	243,7	46,1	227,0	273,2
Total	25 780,0	701,2	26 481,1	1 970,6	2 836,1	4 806,7	4 145,7	634,1	4 779,8	1 847,9	3 258,9	5 106,8

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 (**éprox.** 1.9 million m³), but excluding small volumes of roundwood harvested for export.

2003-2004

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	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 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 (**éprox.** 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)

2004-2005

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

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, 2001-2002 and 2002-2003 (\$/m³)

05.03.06

Species group	Quality ²	Fiscal year (Period) ¹									
		2001-2002					2002-2003				
		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
Fir, spruce, jack pine, larch	A (pole)	17,37	17,23	17,19	17,19	17,25	16,98	16,98	17,15	17,15	17,07
	B (saw timber, pulp)	9,78	11,17	11,92	11,11	10,99	10,65	11,60	10,67	10,13	10,76
White pine	B (saw timber, peeling)	16,31	16,23	16,41	16,55	16,38	18,08	17,98	17,88	17,48	17,85
Red pine	A (pole)	24,25	24,06	24,01	24,01	24,09	24,11	24,11	24,35	24,35	24,23
	B (saw timber)	11,49	11,43	11,56	11,66	11,54	12,95	12,88	12,80	12,52	12,79
Hemlock, cedar	B (saw timber)	3,32	4,01	4,49	4,15	3,99	3,47	3,92	3,54	3,28	3,55
White and red pine, hemlock, cedar	C (pulp)	1,81	1,75	1,69	1,57	1,71	2,01	2,24	2,04	1,91	2,05
Oak, cherry, walnut, hickory	A (peeling)	65,70	64,75	63,05	63,75	64,31	50,94	50,62	50,89	51,42	50,97
	B (saw timber)	24,16	23,56	22,90	23,01	23,41	24,02	24,50	24,81	25,46	24,70
	C (saw timber)	9,38	9,15	8,89	8,94	9,09	10,36	10,57	10,70	10,98	10,65
Yellow birch, ash, basswood, elm	A (peeling)	50,02	49,30	48,01	48,53	48,97	44,32	44,04	44,27	44,74	44,34
	B (saw timber)	18,22	17,77	17,27	17,35	17,65	17,10	17,44	17,66	18,12	17,58
	C (saw timber)	7,02	6,85	6,66	6,69	6,80	7,23	7,37	7,46	7,66	7,43
White birch	A (peeling)	35,60	35,09	34,17	34,54	34,85	36,64	36,41	36,60	36,99	36,66
	B (saw timber)	12,68	12,37	12,02	12,08	12,29	9,75	9,94	10,07	10,33	10,02
	C (saw timber)	4,91	4,79	4,65	4,68	4,76	4,33	4,42	4,48	4,59	4,46
Maple	B (saw timber)	24,05	23,25	22,53	23,69	23,38	21,75	21,62	21,64	21,86	21,72
	C (saw timber)	6,00	5,80	5,62	5,91	5,83	5,38	5,34	5,35	5,40	5,37
Other hardwoods	B (saw timber)	8,74	8,52	8,28	8,33	8,47	8,01	8,17	8,28	8,49	8,24
	C (saw timber)	3,84	3,75	3,64	3,66	3,72	3,59	3,66	3,71	3,80	3,69
Poplars	B (saw timber, peeling)	3,44	3,86	4,09	3,58	3,74	3,61	4,16	3,85	3,92	3,89
	C (pulp)	3,44	3,86	4,09	3,58	3,74	3,61	4,16	3,85	3,92	3,89
All hardwoods except poplars	D (pulp)	2,99	2,71	2,61	2,37	2,67	1,76	1,99	2,16	2,23	2,03
All species	All qualities	9,11	10,24	10,85	10,15	10,09	9,86	10,70	9,92	9,48	9,99

1. 1st period from April 1 to June 30; 2nd period from July 1 to September 30; 3rd period from October 1 to December 31; 4th period from January 1 to March 31.

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

5 Forest management (nouveau)

Forest dues (cont'd)

Market value of standing timber in public forests,

by quality and mean provincial unit rates, 2003-2004 and 2004-2005 (\$/m³) (cont'd)

05.03.07

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)	18,36	18,36	18,36	18,36	18,36	18,49	18,49	18,52	18,52	18,51
Fir, spruce, jack pine, larch	B (saw timber, pulp)	12,53	11,92	11,72	12,03	12,05	11,93	13,07	14,67	14,28	13,49
White pine	G (saw timber)	24,93	24,69	25,03	25,11	24,94	19,17	19,93	20,15	20,19	19,86
	H (saw timber)	16,62	16,46	16,69	16,74	16,62	12,31	12,80	12,94	12,96	12,75
	I (saw timber)	14,96	14,82	15,03	15,08	14,97	11,16	11,60	11,73	11,75	11,56
Red pine	F (pole)	25,07	25,07	25,07	25,07	25,07	24,99	24,99	25,04	25,04	25,01
	G (saw timber)	17,55	17,38	17,63	17,68	17,56	13,65	14,19	14,35	14,38	14,15
	H (saw timber)	11,79	11,68	11,84	11,88	11,80	8,91	9,26	9,37	9,38	9,23
	I (saw timber)	10,61	10,50	10,65	10,68	10,61	8,29	8,62	8,72	8,73	8,59
Hemlock, <i>thuja</i>	B (saw timber)	3,07	2,90	2,86	2,97	2,95	3,05	3,37	3,86	3,77	3,51
White pine, red pine, hemlock, <i>thuja</i>	C (pulp)	1,84	1,75	1,72	1,77	1,77	1,77	1,96	2,21	2,15	2,02
Oak, cherry, walnut, hickory	A (peeling)	56,99	55,42	53,60	53,17	54,80	62,22	62,71	63,05	61,33	62,33
	B (saw timber)	29,85	29,87	29,38	30,97	30,02	35,14	35,33	34,22	33,62	34,58
	C (saw timber)	11,18	11,19	11,01	11,61	11,25	14,60	14,68	14,22	13,97	14,36
Yellow birch, ash, basswood, elm	A (peeling)	56,84	55,27	53,46	53,03	54,65	55,13	55,56	55,86	54,34	55,22
	B (saw timber)	23,63	23,65	23,26	24,52	23,76	26,19	26,33	25,50	25,06	25,77
	C (saw timber)	8,56	8,57	8,43	8,89	8,61	10,42	10,48	10,15	9,97	10,25
White birch	A (peeling)	41,50	40,36	39,03	38,72	39,90	42,48	42,80	43,04	41,86	42,55
	B (saw timber)	16,56	16,58	16,30	17,19	16,66	16,96	17,06	16,52	16,23	16,69
	C (saw timber)	5,68	5,68	5,59	5,89	5,71	6,12	6,15	5,96	5,85	6,02
Sugar maple	A (peeling)	23,56	22,88	22,18	21,39	22,50	26,81	27,22	28,24	27,51	27,45
	B (saw timber)	5,70	5,54	5,37	5,18	5,45	6,25	6,34	6,58	6,41	6,40
	C (saw timber)	9,55	9,56	9,40	9,91	9,61	11,88	11,94	11,57	11,37	11,69
Other hardwoods	B (saw timber)	4,03	4,04	3,97	4,19	4,06	5,25	5,28	5,12	5,03	5,17
	C (saw timber)	5,27	5,66	8,33	11,29	7,64	8,98	11,69	9,19	7,21	9,27
Poplars	B (saw timber, pulp)	5,27	5,66	8,33	11,29	7,64	8,98	11,69	9,19	7,21	9,27
All hardwoods (except poplars)	D (pulp)	2,83	2,98	3,34	4,02	3,29	4,46	5,00	4,48	4,03	4,49
All species	All qualities	11,68	11,20	11,20	11,68	11,44	11,41	12,58	13,69	13,19	12,72

1. 1st period from April 1 to June 30; 2nd period from July 1 to September 30; 3rd period from October 1 to December 31; 4th period from January 1 to March 31.

2. The letters A, B, C, D, 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	2001-2002			2002-2003			2003-2004			2004-2005			
		Bareroot	Container	Total	Bareroot	Container	Total	Bareroot	Container	Total	Bareroot	Container	Total	
01 Bas-Saint-Laurent	PUN ²	8 311	8 078	16 389	7 338	9 257	16 595	7 128r	6 632r	13 760r	8 000p	7 668p	15 668p	
	P&FC ³		10 823	10 823		10 860	10 860		6 756r	6 756r		8 788p	8 788p	
	Total	8 311	18 901	27 212	7 338	20 117	27 455	7 128r	13 388r	20 516r	8 000p	16 456p	24 456p	
02 Saguenay—Lac-Saint-Jean	PUN	3 072	3 543	6 615	3 642	2 904	6 546	3 094r	2 745r	5 839r	2 680p	2 449p	5 129p	
	P&FC		21 156	21 156		21 188	21 188		15 780r	15 780r		17 284p	17 284p	
	Total	3 072	19 203	27 771	3 642	19 203	27 734	3 094r	19 203r	21 619r	2 680p	19 203p	22 413p	
03 Capitale-Nationale	PUN													
	P&FC		8 164	8 164		6 014	6 014		5 697r	5 697r		4 917p	4 917p	
	Total	8 164	8 164	8 164	6 014	6 014	6 014	5 697r	5 697r	5 697r	4 917p	4 917p	4 917p	
04 Mauricie et 17 Centre-du-Québec	PUN	1 571	1 431	3 002	1 122	2 227	3 349	1 222r	1 884r	3 106r	1 910p	2 007p	3 917p	
	P&FC		16 595	16 595		15 797	15 797		11 439r	11 439r		18 640p	18 640p	
	Total	1 571	18 026	19 597	1 122	18 024	19 146	1 222r	13 323r	14 545r	1 910p	20 647p	22 557p	
05 Estrie	PUN													
	P&FC													
	Total													
07 Outaouais	PUN													
	P&FC		8 287	8 287		6 439	6 439		3 087r	3 087r		3 719p	3 719p	
	Total	8 287	8 287	8 287	6 439	6 439	6 439	3 087r	3 087r	3 087r	3 719p	3 719p	3 719p	
08 Abitibi-Témiscamingue	PUN	1 305	5 279	6 584	1 785	5 917	7 702	1 789r	3 566r	5 355r	1 038p	4 354p	5 392p	
	P&FC		19 114	19 114		24 320	24 320		22 289r	22 289r		27 294p	27 294p	
	Total	1 305	24 393	25 698	1 785	30 237	32 022	1 789r	25 855r	27 644r	1 038p	31 648p	32 686p	
09 Côte-Nord	PUN													
	P&FC		10 455	10 455		11 783	11 783		10 865r	10 865r		7 285p	7 285p	
	Total	10 455	10 455	10 455	11 783	11 783	11 783	10 865r	10 865r	10 865r	7 285p	7 285p	7 285p	
11 Gaspésie—Îles-de-la-Madeleine	PUN													
	P&FC		5 715	5 715		4 787	4 787		4 438r	4 438r		2 185p	2 185p	
	Total	5 715	5 715	5 715	4 787	4 787	4 787	4 438r	4 438r	4 438r	2 185p	2 185p	2 185p	
12 Chaudière-Appalaches	PUN													
	P&FC		2 291	1 889	4 180	2 291	5 384	7 675	1 080r	3 917r	4 997r	7 083p	7 083p	
	Total	2 291	1 889	4 180	2 291	5 384	7 675	1 080r	3 917r	4 997r	7 083p	7 083p	7 083p	
14 Lanaudière	PUN	2 504	3 717	6 221	2 145	3 771	5 916	2 415r	2 827r	5 242r	2 604p	2 922p	5 526p	
	P&FC													
	Total	2 504	3 717	6 221	2 145	3 771	5 916	2 415r	2 827r	5 242r	2 604p	2 922p	5 526p	
15 Laurentides	PUN													
	P&FC		12 322	12 322		12 533	12 533		18 806r	18 806r		6 168p	6 168p	
	Total	12 322	12 322	12 322	12 533	12 533	12 533	18 806r	18 806r	18 806r	6 168p	6 168p	6 168p	
Total	PUN	16 763	22 048	38 811	16 032	24 076	40 108	15 648r	17 654r	33 302r	16 232p	19 400p	35 632p	
	P&FC	2 291	114 520	116 811	2 291	119 105	121 396	1 080r	103 074r	104 154r	103 363p	103 363p	103 363p	
	Total	19 054	136 568	155 622	18 323	143 181	161 504	16 728r	120 728r	137 456r	16 232p	122 763p	138 995p	

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 (1999-2000) ¹				Area (2000-2001) ¹							
	TSFMA ²		MRNF ³		Total	TSFMA		MRNF		Total		
	(ha)	(%)	(ha)	(%)	(ha)	(ha)	(%)	(ha)	(%)	(ha)		
Site preparation												
1) Scarifying	46 229r	100,0			46 229r	46 474r	100,0			46 474r		
2) Clearing	6 437r	100,0			6 437r	8 508r	100,0			8 508r		
3) Brushing	28r	100,0			28r	6r	9,2			65r		
4) Harrowing												
5) Removal of residual stems	266r	100,0			266r	408r				408r		
Total	52 959r	100,0			52 959r	55 395r	99,9	59r	0,1	55 454r		
Reforestation and seeding												
1) Planting	(ha)	39 901r	100,0		39 901r	47 763r	100,0			47 763r		
	(Seedlings, million)	72r	100,0		72r	83r	100,0			83r		
2) Reinforcement	(ha)	20 729r	100,0		20 729r	16 022r	100,0			16 022r		
	(Seedlings, million)	22r	100,0		22r	17r	100,0			17r		
3) Enrichment	(ha)	2 163r	100,0		2 163r	2 435r	100,0			2 435r		
	(Seedlings, million)	1r	100,0		1r	1r	100,0			1r		
4) Regeneration of SBBA ⁴	Natural (ha)	53r	100,0		53r							
	Artificial (ha)	9 711r	100,0		9 711r	10 518r	100,0			10 518r		
	(Seedlings, million)	16r	100,0		16r	12r	100,0			12r		
5) Seeding	(ha)	1 895r	100,0		1 895r	136r	100,0			136r		
Total	(ha)	74 452r	100,0		74 452r	76 874r	100,0			76 874r		
	(Seedlings, million)	110r	100,0		110r	114r	100,0			114r		
Noncommercial treatments												
1) Release (plantations)		18 491r	99,1		18 656r	19 464r	99,1			19 647r		
2) Release (natural regeneration)		1 691r	100,0		1 691r	2 452r	96,2			2 548r		
3) Pre-commercial thinning		106 117r	99,3		106 896r	94 167r	98,4			95 698r		
4) Phytosanitary control		24r	100,0		24r	23r	100,0			23r		
5) Fertilization												
6) Drainage		3 471r	100,0		3 471r	2 791r	100,0			2 791r		
Total		129 795r	99,3		944,0	0,7				120 707r		
Commercial treatments												
1) a) Cutting with protection of regeneration and soils		253 736r	100,0		253 736r	206 824r	100,0			206 824r		
b) Merchantable trees		655r	100,0		655r	864r	100,0			864r		
c) Tall regeneration						333r	100,0			333r		
d) With seed reserve		4 169r	100,0		4 169r	2 547r	100,0			2 547r		
Subtotal (CPRS)		258 560r	100,0		258 560r	210 568r	100,0			210 568r		
2) Block cutting						20 126r	100,0			20 126r		
3) a) Selection cutting		43 655r	100,0		43 655r	41 733r	100,0			41 733r		
b) pre-selection cutting		7 787r	100,0		7 787r	6 311r				6 311r		
Subtotal		51 442r	100,0		51 442r	48 044r	100,0			48 044r		
4) Improvement cutting		3 904r	100,0		3 904r	1 069r	100,0			1 069r		
5) Shelterwood cutting		5 031r	100,0		5 031r	3 943r	100,0			3 943r		
6) Commercial thinning		7 824r	98,3		137,0	1,7						
7) a) Strip cutting		1 716r	100,0		1 716r	923r	85,0			1 086r		
b) Patch cutting		23r	100,0		23r	94r				94r		
Subtotal		1 739r	100,0			1 739r	1 017r	86,2	163r	13,8	1 180r	
8) Harvesting in buffer strips		604r	100,0			604r	1 291r	100,0			1 291r	
9) Other methods :												
a) Cutting for reforestation		9 711r	100,0			9 711r	10 601r	100,0			10 601r	
b) Clear cutting - SBBA		11 309r	100,0		3,0	0,0	11 312r	9 881r	100,0	1r	0,0	9 882r
	- roads	10 028r	100,0				10 028r	8 415r	100,0			8 415r
c) Salvage cutting - special plans ⁵		2 581r	100,0				2 581r	5 992r	100,0			5 992r
d) Other methods		7 519r	100,0				7 519r	4 176r	100,0			4 176r
Subtotal		41 148r	100,0		3,0	0,0	41 151r	39 065r	100,0	1,0	0,0	39 066r
10) Treatments carried out under the resource development program		2 768r	100,0				2 768r	2 042r	100,0			2 042r
Total		373 020r	100,0		140r	0,0	373 160r	334 688r	99,8	516r	0,2	335 204r
Grand total		630 226r	99,8		1 084r	0,2	631 310r	585 853r	99,6	2 386r	0,4	588 239r

1. Updated June 2005.

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 (2001-2002) ¹				Area (2002-2003) ¹						
	TSFMA ²		MRNF ³		Total	TSFMA		MRNF		Total	
	(ha)	(%)	(ha)	(%)	(ha)	(ha)	(%)	(ha)	(%)	(ha)	
Site preparation											
1) Scarifying	43 117r	100,0	13r	0,0	43 130r	43 421r	100,0			43 421r	
2) Clearing	5 524r	99,8	13r	0,2	5 537r	5 827r	100,0			5 827r	
3) Brushing	2r	100,0			2r	148r	23,9	470r	76,1	618r	
4) Brûlage dirigé à plat	2r				2r						
5) Removal of residual stems	672r	45,2	816r	54,8	1 488r	258r	21,6	936r	78,4	1 194r	
Total	49 317r	98,3	842r	1,7	50 158r	49 655r	97,2	1 406r	2,8	51 061r	
Reforestation and seeding											
1) Planting	(ha)	42 902r	99,2	331r	0,8	43 233r	38 631r	99,2	303r	0,8	38 934r
	(Seedlings, million)	73r	99,1	1r	0,9	74r	69r	99,1	1r	0,9	70r
2) Reinforcement	(ha)	26 938r	99,4	161r	0,6	27 099r	26 532r	98,4	444r	1,6	26 976r
	(Seedlings, million)	22r	98,7	0r	1,3	22r	27r	96,4	1r	3,6	28r
3) Enrichment	(ha)	493r	100,0			493r	1 246r	100,0			1 246r
	(Seedlings, million)	0r	100,0			0r	0r	100,0			0r
4) Regeneration of SBBA ⁴	Natural (ha)										
	Artificial (ha)	10 436r	100,0			10 436r	7 970r	100,0			7 970r
	(Seedlings, million)	12r	100,0			12r	8r	100,0			8r
5) Seeding	(ha)										
	(ha)	80 769r	99,4	492r	0,6	81 261r	74 395r	91,6	747r	0,9	75 142r
	(Seedlings, million)	107r	99,1	1r	0,9	108r	104r	96,1	2r	1,5	106r
Noncommercial treatments											
1) Release (plantations)		17 291r	91,5	1 611r	8,5	18 902r	13 763r	89,8	1 568r	10,2	15 331r
2) Release (natural regeneration)		2 318r	92,3	193r	7,7	2 511r	2 819r	91,1	275r	8,9	3 094r
3) Pre-commercial thinning		79 677r	91,9	7 026r	8,1	86 703r	85 540r	95,7	3 887r	4,3	89 427r
4) Phytosanitary control											
5) Fertilization											
6) Drainage		2 855r	100,0			2 855r	3 312r	100,0			3 312r
Total		102 141r	92,0	8 830r	8,0	110 971r	105 434r	94,6	6 048r	5,4	111 482r
Commercial treatments											
1) a) Cutting with protection of regeneration and soils		180 010r	100,0			180 010r	170 989r	100,0			170 989r
b) Merchantable trees		2 037r	100,0			2 037r	3 684r	100,0			3 684r
c) Tall regeneration		64r	100,0			64r	416r	100,0			416r
d) With seed reserve		1 586r	100,0			1 586r	13 367r	100,0			13 367r
Subtotal (CPRS)		183 697r	100,0			183 697r	188 455r	102,6			188 455r
2) Block cutting		24 825r	100,0			24 825r	35 804r	100,0			35 804r
3) a) Selection cutting		33 250r	100,0			33 250r	28 773r	100,0			28 773r
b) Pre-selection cutting		4 046r	100,0			4 046r	11 094r	100,0			11 094r
Subtotal		37 296r	100,0			37 296r	39 867r	106,9			39 867r
4) Improvement cutting		161r	100,0			161r	410r	100,0			410r
5) Shelterwood cutting		2 793r	99,9	4r	0,1	2 797r	5 177r	100,0			5 177r
6) Commercial thinning		5 015r	95,9	213r	4,1	5 228r	7 466r	97,3	209r	2,7	7 675r
7) a) Strip cutting		341r	100,0			341r	924r	100,0			924r
b) Patch cutting		16r	100,0			16r					
Subtotal		357r	100,0			357r	924r	258,8			924r
8) Harvesting in buffer strips		1 843r	100,0			1 843r	1 025r	100,0			1 025r
9) Other methods :											
a) Cutting for reforestation		7 632r	100,0			7 632r	7 970r	100,0			7 970r
b) Clear cutting - SBBA		10 436r	99,8	16r	0,2	10 452r	8 301r	100,0			8 301r
- Roads		8 236r	100,0			8 236r	8 891r	100,0			8 891r
c) Salvage cutting - special plans ⁵		5 107r	100,0			5 107r	8 944r	100,0			8 944r
d) Other methods		5 570r	99,0	57r	1,0	5 627r	7 351r	99,1	66r	0,9	7 417r
Subtotal		36 981r	99,8	73r	0,2	37 054r	41 457r	111,9	66r	0,2	41 523r
10) Treatments carried out under the resource development program		1 135r	100,0			1 135r	1 198r	105,6			1 198r
Total		294 103r	99,9	290r	0,1	294 393r	321 782r	99,9	275r	0,1	322 057r
Grand total		526 330r	98,1	10 454r	1,9	536 783r	551 266r	98,5	8 476r	1,5	559 742r

1. Updated June 2005.

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 (Nouveau)

Summary of silvicultural treatments carried out (cont'd)

05.14.03

A) Public forests (cont'd)

Type of treatments	Area (2003-2004) ¹				Area (2004-2005) ¹			
	TSFMA ² (ha)	MRNF ³ (ha)	Total (ha)	TSFMA (ha)	MRNF (ha)	Total (ha)		
Site preparation								
1) Scarifying	49 526p	100,0		49 526p	42 312p	100,0		42 312p
2) Clearing	5 351p	100,0		5 351p	5 815p	100,0		5 815p
3) Brushing	148p	18,9	635p	81,1	783p			
4) Harrowing								
5) Removal of residual stems	810p	94,8	44p	5,2	854p			
Total	55 835p	98,8	679p	1,2	56 514p	48 127p	100,0	48 127p
Reforestation and seeding								
1) Planting	(ha)	39 610p	100,0		39 610p	43 672p	100,0	43 672p
	(Seedlings, million)	73p	100,0		73p	77p	100,0	77p
2) Reinforcement	(ha)	16 284p	100,0		16 284p	24 524p	100,0	24 524p
	(Seedlings, million)	24p	100,0		24p	25p	100,0	25p
3) Enrichment	(ha)	2 906p	100,0		2 906p	1 541p	100,0	1 541p
	(Seedlings, million)	1p	100,0		1p	1p	100,0	1p
4) Regeneration of SBBA ⁴	Natural (ha)							
	Artificial (ha)	2 066p	100,0		2 066p			
	(Seedlings, million)	2p	100,0		2p			
5) Seeding	(ha)					254p	100,0	254p
Total	(ha)	60 866p	100,0		60 866p	69 991p	100,0	69 991p
	(Seedlings, million)	100p	100,0		100p	102p	100,0	102p
Noncommercial treatments								
1) Release (plantations)		8 449p	92,4	691p	7,6	9 140p	100,0	16 009p
2) Release (natural regeneration)		2 124p	100,0			2 124p	4 850p	100,0
3) Pre-commercial thinning		120 342p	97,9	2 585p	2,1	122 927p	129 771p	100,0
4) Phytosanitary control				1 435p	100,0	1 435p	8p	100,0
5) Fertilization		98p	100,0			98p	212p	100,0
6) Drainage		5 900p	100,0			5 900p	6 054p	100,0
Total		136 913p	96,7	4 711p	3,3	141 624p	156 904p	100,0
Commercial treatments								
1) a) Cutting with protection of regeneration and soils		180 062p	100,0			180 062p	180 062p	100,0
b) Merchantable trees		2 037p	100,0			2 037p	2 037p	100,0
c) Tall regeneration		64p	100,0			64p	64p	100,0
d) With seed reserve		657p	100,0			657p		
Subtotal (CPRS)		182 820p	100,0			182 820p	182 163p	100,0
2) Block cutting		62 940p	100,0			62 940p	57 708p	100,0
3) a) Selection cutting		21 087p	100,0			21 087p	11 761p	100,0
b) Pre-selection cutting		1 210p	100,0			1 210p	1 767p	100,0
Subtotal		22 297p	100,0			22 297p	13 528p	100,0
4) Improvement cutting								
5) Shelterwood cutting		1 007p	100,0			1 007p	1 017p	100,0
6) Commercial thinning		3 769p	95,6	173p	4,4	3 942p	4 973p	100,0
7) a) Strip cutting		310p	100,0			310p	607p	100,0
b) Patch cutting								
Subtotal		310p	100,0			310p	607p	100,0
8) Harvesting in buffer strips								
9) Other methods :								
a) Cutting for reforestation		2 066p	100,0			2 066p	5 500p	100,0
b) Clear cutting - SBBA		3 355p	100,0			3 355p	5 500p	100,0
- Roads		3 763p	100,0			3 763p	5 424p	100,0
c) Salvage cutting - special plans ⁵								
d) Other methods		3 031p	99,7	10p	0,3	3 041p	3 031p	100,0
Subtotal		12 215p	99,9	10p	0,1	12 225p	19 455p	100,0
10) Treatments carried out under the resource development program								
Total		285 358p	99,9	183p	0,1	285 541p	279 450p	100,0
Grand total		538 972p	99,0	5 573p	1,0	544 545p	554 472p	100,0
								554 472p

1. D'après les états d'avancement des travaux sylvicoles de 2003-2004 et 2004-2005 en date du 4 mai 2005. (à traduire)

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. : CPRS have been estimated.

5 Forest management

Summary of silvicultural treatments carried out (cont'd)

B) Private forests

05.14.04

Type of treatments	Area (2000-2001) (ha)	Area (2001-2002) (ha)	Area (2002-2003) (ha)	Area (2003-2004) (ha)	Area (2004-2005) (ha)
Site preparation					
1) Scarifying	907	1 044	1 059	676	609p
2) Clearing	2 693	2 957	2 983	3 595	3 188p
3) Ploughing and harrowing	306	247	288	220	164p
4) Brushing					
- mechanical	3 311	3 871	3 278	3 127	2 955p
- chemical	265				
5) Removal of residual stems	436	432	484	528	592p
6) Other treatments	812	671	1 018	877	606p
Total	8 731	9 221	9 110	9 022	8 114p
Reforestation					
1) Planting	10 929	10 607	10 517	9 056	8 672p
2) Reinforcement	1 671	1 555	1 269	1 368	1 193p
3) Enrichment	104	103	174	252	216p
Total	12 703	12 264	11 959	10 675	10 082p
(Seedlings, million)	28r	27	26	23	22r
Noncommercial treatments					
1) Release (plantations)					
- mechanical	7 576	9 500	9 414	9 535	11 409p
- chemical	3 686	114			
2) Release (natural regeneration)					
- mechanical	737	977	482	554	335p
- chemical	32				
3) Pre-commercial thinning	6 683	7 829	5 587	5 011	6 003p
4) Phytosanitary control	450	510	623	536	467p
5) Drainage	1 881	1 677	1 530	1 203	825p
Total	21 045	20 608	17 635	16 839	19 039p
Commercial treatments					
1) Selection cutting	2 126	2 442	2 228	2 268	1 745p
2) Shelterwood cutting	622	489	450	427	531p
3) Strip and patch cutting	12	23	7	11	22p
4) Commercial thinning	3 926	4 437	4 713	4 656	4 636p
5) Other methods	3 112	3 096	2 596	2 473	3 575p
Total	9 798	10 485	9 994	9 835	10 509p
Grand total	52 277	52 578	48 698	46 371	47 744p

Source : Les données des forêts privées sont tirées du programme régulier (PFDSP) auquel le programme rexforêt est ajouté pour les années financières 2002-2003, 2003-2004 et 2004-2005. (à traduire)

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

Highlights

Teaching and research forests (TRF) (March 2005)		06.00.01
Teaching and research forests (no.)		16
Area (ha, 000s)		38,7

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

Experimental forests (EF) (March 2005)

Permanent (no.)	203
Temporary (no.)	453
Total (no.)	656
Area (ha, 000s)	26,1

Principal wildlife-related activities in 2000

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

		2003	2004
Bulk syrup	(l, 000s)	22 648r	21 619p
	(\$, 000s)	109 560r	102 060p
Direct sales by producers	(l, 000s)	3 150r	3 150p
	(\$, 000s)	27 173r	27 356p
Producers' consumption	(l, 000s)	281r	281p
	(\$, 000s)	2 427r	2 444p
Bulk syrup (stock)	(l, 000s)	4 118r	5 147p
Marketed and self-sufficient production	(l, 000s)	26 079r	25 050p
	(\$, 000s)	139 160r	131 860p
Total production	(l, 000s)	30 197r	30 197p

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	
2003	Quantity (t)	136,1	181,4	317,5	9 843,0	3 211,4	13 054,4
	Value (\$, 000s)	375,0	600,0	975,0	11 501,0	4 035,6	16 511,6
2004	Quantity (t)	181,4	226,8	408,2	16 147,9	3 855,5	20 003,4
	Value (\$, 000s)	500,0	750,0	1 250,0	21 360,0	6 800,0	29 410,0

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

Institut de la statistique du Québec

Bulk Christmas tree production¹

	2002		2003e	
	Number	Value (\$)	Number	Value (\$)
Québec	1 497 000	25 737 000	1 457 000	25 527 000

1. Number and wholesale value of Christmas trees for export only.

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)
2003	16	317	203	32
2004	13	185	38	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	2003
Total jobs (no.)	11 120	13 377
Total salaries and wages (\$, 000s)	255 540	465 317
Value of shipments and other revenue (\$, 000s)	2 258 181	2 784 154
Value added ¹ to total activity (\$, 000s)	712 566	913 018
Capital expenditures and repairs (\$, 000s)	213 700	140 200

1. Added value includes purchase of services.

9 Timber use

Highlights

09.00.01

Consumption of Québec's primary wood

Processing plants (2004) (m³, 000s)

By species

• FSPL	55 762
• Other softwoods	2 197
• Poplars	5 357
• Hardwoods	8 937
• Total	72 253

By type of timber use

• Roundwood	44 715
• Chips	19 039
• Sawdust, shavings, wood residues and bark	8 499
• Total	72 253

By source

• Public forests	32 177
• Private forests	7 274
• Exchange between mills	25 028
• Outside Québec	7 774
• Total	72 253

By product

• Pulp and paper	24 857
• Saw timber	36 696
• Peelers	334
• Panelboard	6 523
• Other	3 843
• Total	72 253

Balance of Québec's bark (2004) (BDMT, 000s)

Estimated production	3 672
Use	3 690
Projects ¹	18

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

Trade with markets outside Québec (2004) (m³, 000s)

Region or country	Receipts	Shipments
Ontario		
• Softwoods	682,6	634,7
• Hardwoods	1 030,9	4,2
Other provinces		
• Softwoods	758,0	961,9
• Hardwoods	468,7	125,9
United States and other countries		
• Softwoods	3 067,2	1 031,4
• Hardwoods	1 766,9	90,1
Total		
• Softwoods	4 507,8	2 628,0
• Hardwoods	3 266,5	220,2

Principal products of Québec's primary wood processing plants

	2004
Pulp destined for sale (BDMT)	1 918 236
Paper (BDMT)	6 498 952
Paperboard (BDMT)	1 608 962
Insulation board (mt)	87 638
Particle board (m ³)	4 381 957
Veneer (m ²)	180 525 438
Shingles (squares)	572 363
Poles (units)	33 092
Mulching material (BDMT)	12 002
Charcoal (mt)	6 320
Saw timber (bd ft, 000s)	8 241 492
Other products (bd ft, 000s) ¹	108 605

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

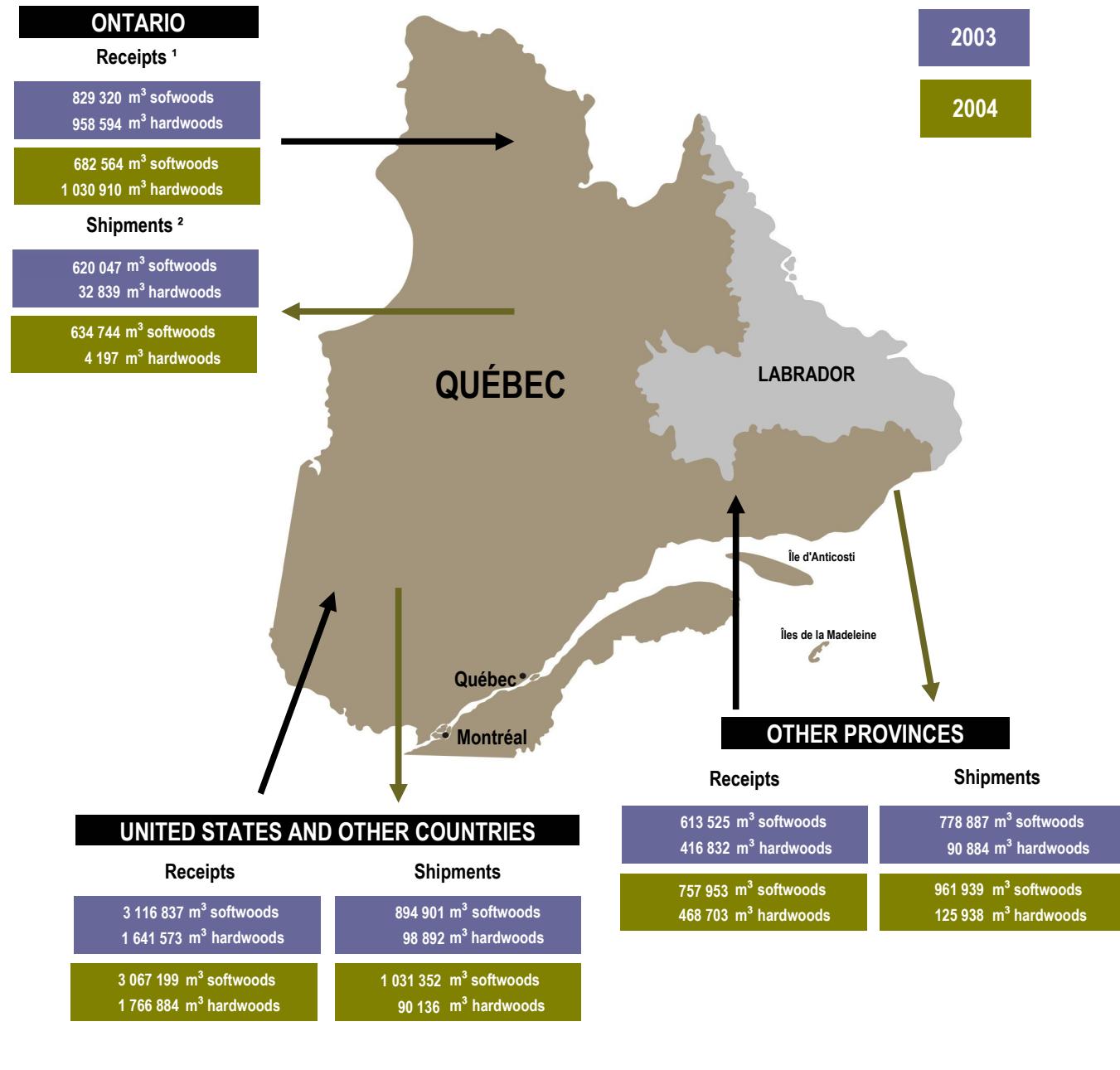
FSPL chip stocks at Québec's sawmills

	December 1999	December 2004
FSPL chips (BDMT, 000s)	81,1	14,6

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 (2004)

Lumber	445
Pulp and paper ¹	38
Veneer and plywood	12
Particle board	12
Wood turning and shaping	7
Energy production and cogeneration ²	16
Other	1
Total	531

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 (2003)

Wood product manufacturing	1 131
Paper manufacturing	252
Total	1 383

Source : Statistics Canada : 31-203.

Economic indicators for Québec's wood products industry¹ (2003)

Jobs (no.)	39 175
Salaries and wages (\$, 000s)	1 384 922
Value of shipments and other revenue (\$, 000s)	9 053 561
Value added ² to total activity (\$, 000s)	3 304 631
Capital expenditures and repairs (\$, 000s)	567 200

1. According to NAICS 321 (wood products manufacturing industry), Statistics Canada.

2. Including purchase of services.

Québec's lumber production (m³, 000s)

2001	• Softwoods	18 106
	• Hardwoods	1 044
2002	• Softwoods	19 228
	• Hardwoods	1 162
2003	• Softwoods	18 247p
	• Hardwoods	1 103p
2004	• Softwoods	18 749p
	• Hardwoods	1 134p

Source: Statistics Canada: 35-003.

Source of wood used by Québec's sawmills (2004) (m³, 000s)

Public forests	27 580,8
Private forests	4 619,8
Other mills	45,1
Outside Québec	4 450,4
Total	36 696,1

Joint production of Québec's sawmills (2004) (BDMT, 000s)

Chips	7 449
Sawdust and shavings	2 112
Bark	2 901
Total	12 462

Québec's lumber shipments (2004) (m³, 000s)

Softwoods	16 059,7
Hardwoods	1 826,8
Total	17 886,5

Destination of Québec's lumber shipments (2005) (%)

	Softwoods	Hardwoods
Canada	49,4	50,7
United States	50,3	36,2
Overseas	0,3	13,1
Total	100,0	100,0

10 Wood industries

Highlights (cont'd)

Economic indicators for Québec's sawmills and wood preservation industries (NAICS 32111) (2003)

Jobs (no.)	15 774
Salaries and wages (\$, 000s)	617 628
Value of shipments and other revenue (\$, 000s)	3 930 260
Value added ¹ to total activity (\$, 000s)	1 246 111
Capital expenditures and repairs (\$, 000s)	253 000

1. Including purchase of services.

Economic indicators of Québec's sawmills, excluding shingle mills (NAICS 321111) (2003)

Jobs (no.)	14 868
Salaries and wages (\$, 000s)	590 106
Value of shipments and other revenue (\$, 000s)	3 724 609
Value added ¹ to total activity (\$, 000s)	1 165 454
Capital expenditures and repairs (\$, 000s)	..

1. Including purchase of services.

Volume and value of Québec's lumber exports by destination in 2005

	Volume (m ³ , 000s)	Value (\$, millions)
United States and Mexico	8 675,0	1 591,9
Europe	104,3	112,4
Middle East and Africa	55,6	31,6
Asia and Oceania	53,3	51,4
Central and South America	9,0	3,5
Total	8 897,2	1 790,8

Economic indicators for Québec's veneer, plywood and reconstituted wood industry (NAICS 3212) (2003)

Jobs (no.)	6 855
Salaries and wages (\$, 000s)	257 279
Value of shipments and other revenue (\$, 000s)	2 097 817
Value added ² to total activity (\$, 000s)	889 147
Capital expenditures and repairs (\$, 000s)	168 100

1. According to NAICS 3212, which is a subdivision of Statistics Canada group 321 (wood products manufacturing industry).

2. Including purchase of services.

Economic indicators for Québec's particle board industry

	2003	2004
Jobs (no.)	2 718	2 654
Mills (no.)	14	14
Production capacity (m ³ , 000s/year)	5 272	5 272
Capital expenditures and repairs (\$, 000s)

Economic indicators for Québec's waferboard industry (NAICS 321217) ¹ (2003)

Jobs (no.)	763
Salaries and wages (\$, 000s)	40 759
Value of shipments and other revenue (\$, 000s)	495 431
Value added ² to total activity (\$, 000s)	306 677

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

2. Including purchase of services.

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

Wood, charcoal and wood products	Exports	Imports	Balance of trade
2003	3 828,4	892,5	2 935,9
2004	4 685,2	992,5	3 692,7
2005	4 296,5	996,8	3 299,7

1. Balance of trade inside and outside Canada. (à vérifier)

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

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

Wood product manufacturing (NAICS 321)	Exports	Imports	Balance of trade
2003	3 734,8	536,2	3 198,6
2004	4 588,3	612,3	3 976,0
2005	4 201,2	631,2	3 570,0

1. Balance of trade inside and outside Canada. (à vérifier)

2. According to NAICS.

10 Wood industries (nouvelle feuille)

Highlights

10.00.01 (2)

Québec's primary wood processing plants (2004)

Lumber	445
Pulp and paper ¹	38
Veneer and plywood	12
Particle board	12
Wood turning and shaping	7
Energy production and cogeneration ²	16
Other	1
Total	531

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) (2003)

Wood product manufacturing	1 131
Furniture and related product manufacturing	1 397
Paper manufacturing	252
Printing and related support activities	1 247
Total	4 027

Source : Statistics Canada : 31-203.

Economic indicators for Québec's wood products industry¹ (2003)

Jobs (no.)	39 175
Salaries and wages (\$, 000s)	1 384 922
Value of shipments and other revenue (\$, 000s)	9 053 561
Value added ² to total activity (\$, 000s)	3 304 631
Capital expenditures and repairs (\$, 000s)	567 200

1. According to NAICS 321 (wood products manufacturing industry), Statistics Canada.

2. Including purchase of services.

Economic indicators for Québec's furniture and related product manufacturing¹ industry (2003)

Jobs (no.)	35 026
Salaries and wages (\$, 000s)	1 056 872
Value of shipments and other revenue (\$, 000s)	4 083 036
Value added ² to total activity (\$, 000s)	2 157 188
Capital expenditures and repairs (\$, 000s)	88 600

1. According to NAICS 337 (furniture and related product manufacturing industry), Statistics Canada.

2. Including purchase of services.

Québec's lumber production (m³, 000s)

2001	• Softwoods	18 106
	• Hardwoods	1 044
2002	• Softwoods	19 228
	• Hardwoods	1 162
2003	• Softwoods	18 247p
	• Hardwoods	1 103p
2004	• Softwoods	18 749p
	• Hardwoods	1 134p

Source: Statistics Canada: 35-003.

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

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

Source of wood used by Québec's sawmills (2004) (m³, 000s)

Public forests	27 580,8
Private forests	4 619,8
Other mills	45,1
Outside Québec	4 450,4
Total	36 696,1

Joint production of Québec's sawmills (2004) (BDMT, 000s)

Chips	7 449
Sawdust and shavings	2 112
Bark	2 901
Total	12 462

Québec's lumber shipments

(2004) (m ³ , 000s)	
Softwoods	16 059,7
Hardwoods	1 826,8
Total	17 886,5

10 Wood industries (nouvelle feuille)

Highlights (cont'd)

Destination of Québec's lumber shipments

(2005) (%)

	Softwoods	Hardwoods
Canada	49,4	50,7
United States	50,3	36,2
Overseas	0,3	13,1
Total	100,0	100,0

Economic indicators for Québec's sawmills and wood preservation industries (NAICS 32111) (2003)

Jobs (no.)	15 774
Salaries and wages (\$, 000s)	617 628
Value of shipments and other revenue (\$, 000s)	3 930 260
Value added ¹ to total activity (\$, 000s)	1 246 111
Capital expenditures and repairs (\$, 000s)	253 000

1. Including purchase of services.

Economic indicators of Québec's sawmills, excluding shingle mills (NAICS 321111) (2003)

Jobs (no.)	14 868
Salaries and wages (\$, 000s)	590 106
Value of shipments and other revenue (\$, 000s)	3 724 609
Value added ¹ to total activity (\$, 000s)	1 165 454
Capital expenditures and repairs (\$, 000s)	..

1. Including purchase of services.

Volume and value of Québec's lumber exports by destination (2005)

	Volume (m ³ , 000s)	Value (\$, millions)
United States and Mexico	8 675,0	1 591,9
Europe	104,3	112,4
Middle East and Africa	55,6	31,6
Asia and Oceania	53,3	51,4
Central and South America	9,0	3,5
Total	8 897,2	1 790,8

Economic indicators for Québec's veneer, plywood and reconstituted wood industry (NAICS 3212) ¹ (2003)

Jobs (no.)	6 855
Salaries and wages (\$, 000s)	257 279
Value of shipments and other revenue (\$, 000s)	2 097 817
Value added ² to total activity (\$, 000s)	889 147
Capital expenditures and repair (\$, 000s)	168 100

1. According to NAICS 3212, which is a subdivision of Statistics Canada group 321 (wood product manufacturing industry).

2. Including purchase of services.

Economic indicators for Québec's particle board industry

	2003	2004
Jobs (no.)	2 718	2 654
Mills (no.)	14	14
Production capacity (m ³ , 000s/year)	5 272	5 272
Capital expenditures and repairs (\$, 000s)

Economic indicators for Québec's waferboard industry (NAICS 321217) ¹ (2003)

Jobs (no.)	763
Salaries and wages (\$, 000s)	40 759
Value of shipments and other revenue (\$, 000s)	495 431
Value added ² to total activity (\$, 000s)	306 677

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

2. Including purchase of services.

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

Furniture and related product manufacturing	Exports	Imports	Balance of trade
2003	1 734,3	483,8	1 250,5
2004	1 707,4	564,8	1 142,6
2005	1 515,6	629,5	886,1

1. Balance of trade inside and outside Canada. (à vérifier)

2. According to NAICS.

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

Wood product and furniture and related product manufacturing	Exports	Imports	Balance of trade
2003	5 469,1	1 020,0	4 449,1
2004	6 295,6	1 177,1	5 118,5
2005	5 716,8	1 260,7	4 456,1

1. Balance of trade inside and outside Canada. (à vérifier)

2. According to NAICS.

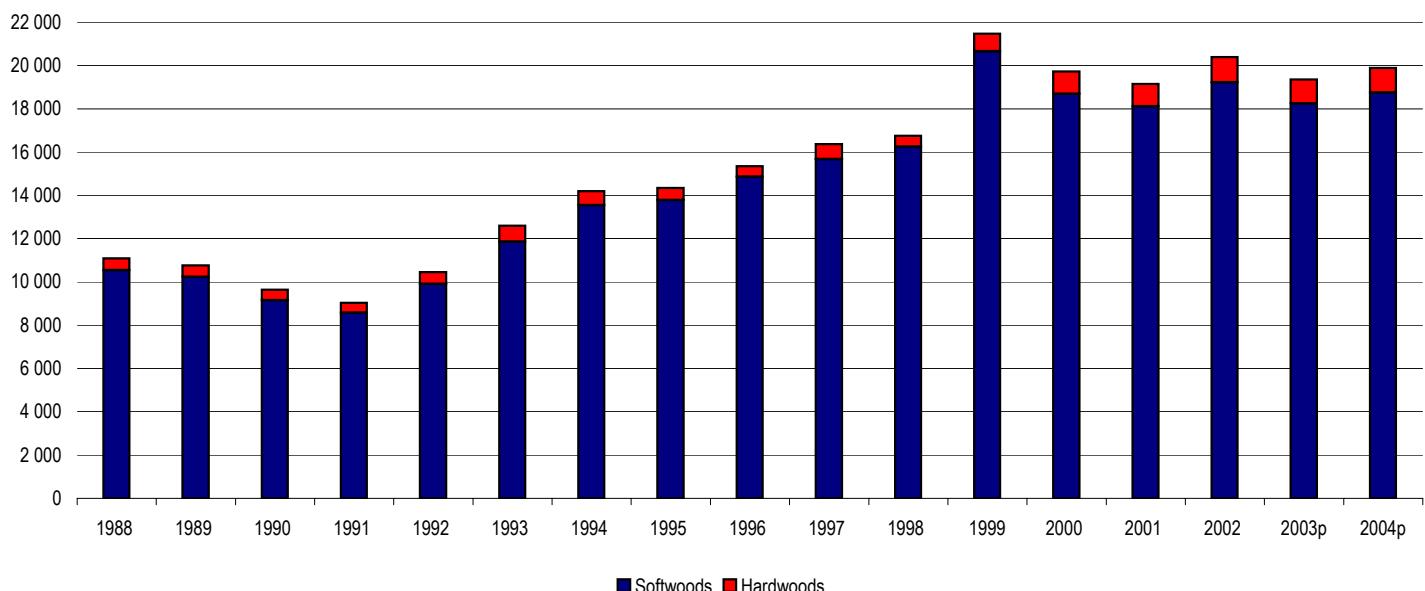
10.00.01 (2)

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 Industries du bois

10.1 Coup d'œil global (suite)

Évolution de la production québécoise de bois d'œuvre (résineux et feuillus) ('000 m³) (suite)

10.01.09 (g)

Années	Total	Softwoods	Hardwoods
1988	11 088	10 549	539
1989	10 770	10 231	538
1990	9 637	9 153	484
1991	9 026	8 573	453
1992	10 459	9 904	554
1993	12 595	11 853	742
1994	14 189	13 548	642
1995	14 341	13 786	555
1996	15 353	14 862	490
1997	16 363	15 679	683
1998	16 759	16 248	511
1999	21 469	20 649	820
2000	19 716	18 682	1 034
2001	19 151	18 106	1 044
2002	20 390	19 228	1 162
2003	19 350p	18 247p	1 103p
2004	19 883p	18 749p	1 134p

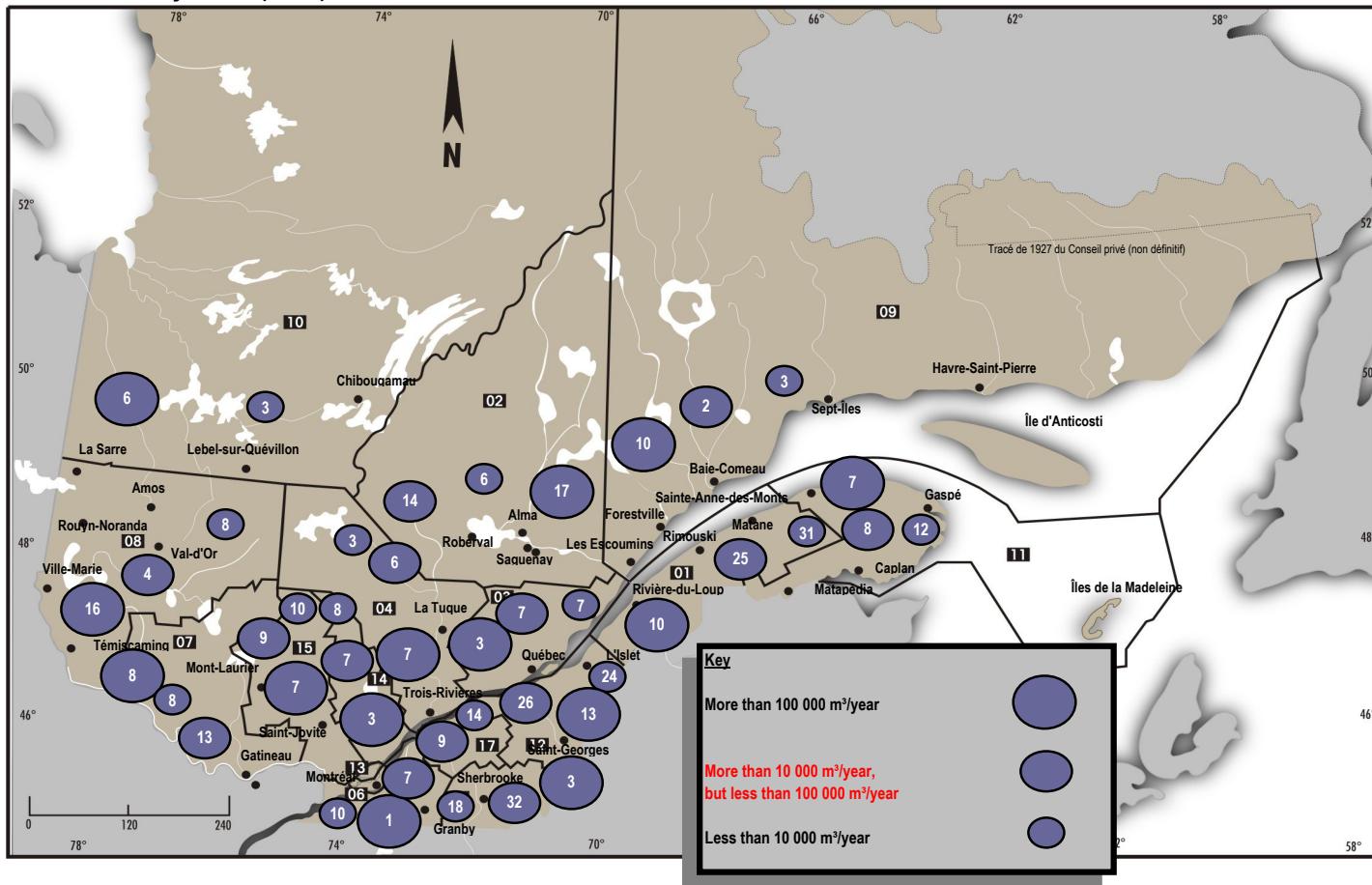
Sources : Statistique Canada : 35-002 (1988 à 1995) et 35-003.

10 Wood industries

The sawmill industry

Sawmills by size¹ (2004)

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 (compiled in-house).

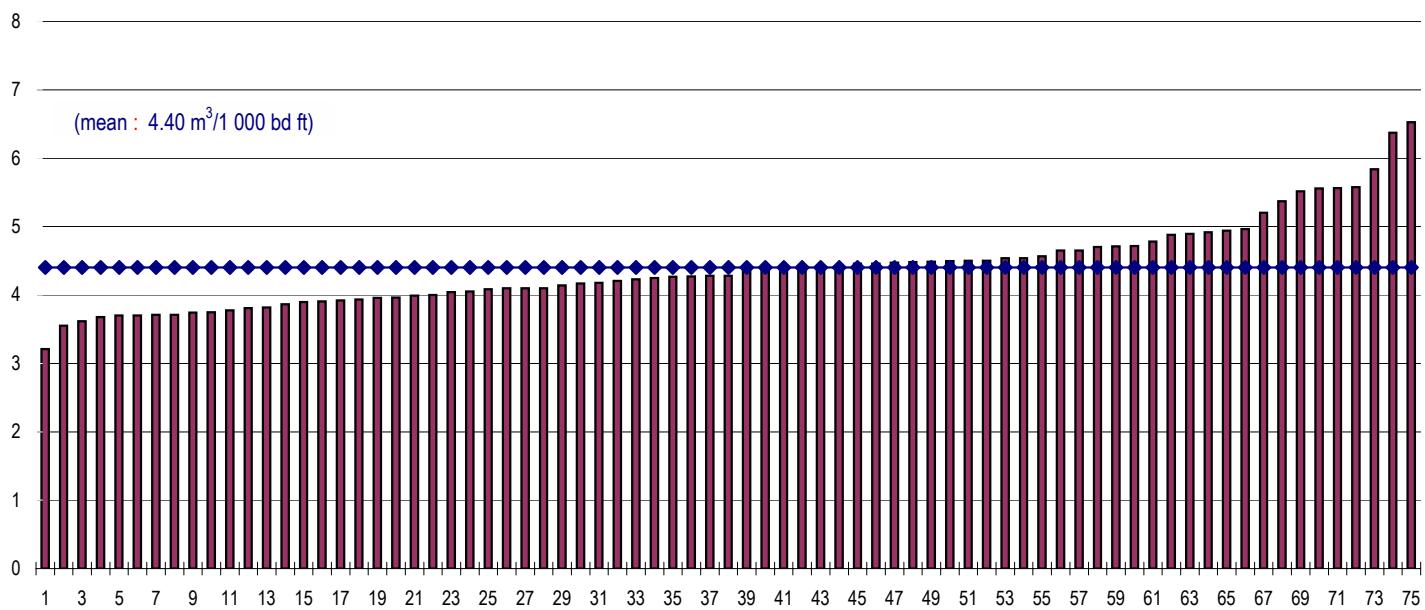
10 Wood industries

The sawmill industry (cont'd)

Timber sawmill output (fir, spruce, jack pine, larch) (TSFMA¹ holders) (2003)

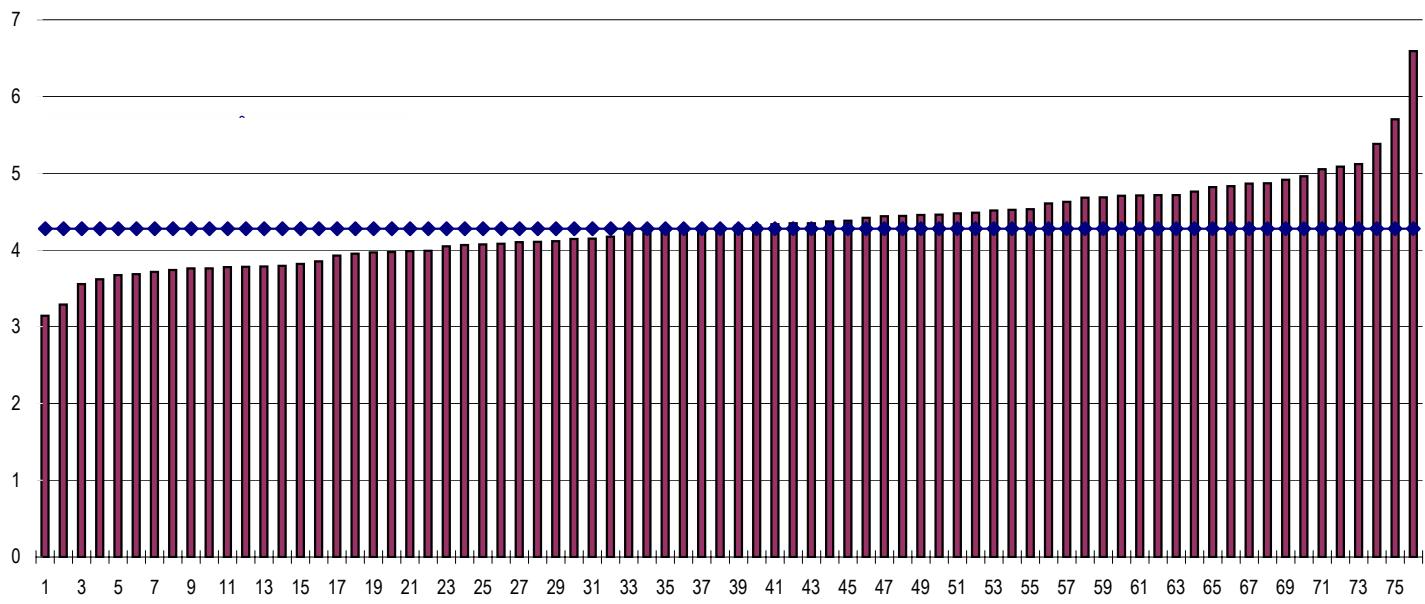
(m³/1 000 bd ft)

10.02.06



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

(m³/1 000 bd ft)



1. TSFMA : timber supply and forest management agreement.

11 The pulp and paper industry

Highlights

11.00.01

Québec's pulp, paper and paperboard mills (May 2005)

Mills consuming roundwood, chips, sawdust and shavings (primary processing mills)	38
Mills consuming marketed (achetées) pulp and recycled fibres	27
Total	65

Québec's pulp, paper and paperboard mills and production capacity (May 2005)¹

	Mills (no.)	Production capacity (BDMT, 000s/year)
Market pulp	9	3 641,2
Newspaper (mechanical, supercalandered, etc.)	20	5 198,5
Paperboard packaging and other paperboard	11	1 977,8
Low-density board	2	114,5
Fine and specialty paper	4	902,8
Construction paperboard	2	36,0
Kraft papers (packing, carbon)	2	111,2
Sanitary tissue	15	675,0
Total	65	12 657,0

1. Classification by main product.

Main timber supply sources for Québec's pulp and paper industry (2004) (m³, 000s)

Roundwood and chips (public forests)	1 714,9
Roundwood and chips (private forests)	1 885,5
Roundwood, chips, sawdust and shavings from Québec's mills	18 558,5
Roundwood, chips, sawdust and shavings from outside Québec	2 548,8
Total	24 707,6

Raw materials used in Québec's pulp and paper mills (2004) (BDMT, 000s)

Roundwood	1 896,0
Joint sawmill production	8 465,0
Recycled fibres and commercial pulp	2 889,0
Total	13 250,0

Recycled fibre from paper and paperboard recycled by Québec's pulp and paper industry (2004) (BDMT, 000s)

Recovered paper for de-inking	1 223,2
Recovered paper, without de-inking	173,6
Recovered paperboard for de-inking	586,7
Total	1 983,5

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

	2002	2003	2004
Sulphate pulp (Kraft)	2 092	2 083	2 122
Thermomechanical pulp	3 547	3 765	3 823
Recycled pulp	1 647	1 609	1 705
Other pulp	1 439	1 275	1 242
Total	8 725	8 732	8 892

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

	2003	2004
Newspaper	3 851	3 472
Printing and writing papers	2 598	3 077
Sanitary tissue	296	327
Other papers	150	130
Paperboard	1 710	1 760
Total	8 604	8 766

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

	2003	2004		
	Newsprint	Other paper and paperboard	Newsprint	Other paper and paperboard
Québec	3 729	4526	3 488	4 907
Canada	8 487	11633	8 201	12 377
Québec/Canada (%)	43,9	38,9	42,5	39,6

Economic indicators for Québec's paper products industry¹ (2003)

Jobs (no.)	29 884
Salaries and wages (\$, 000s)	1 620 038
Value of shipments and other revenue (\$, 000s)	10 882 369
Value added ² to total activity (\$, 000s)	4 190 229
Capital expenditures and repair (\$, 000s)	1 697 400

1. According to NAICS 322, Statistics Canada (paper manufacturing industry).

2. Including purchase of services.

11 Pulp and paper industry

Highlights (cont'd)

11.00.01

Economic indicators for Québec's wood pulp, paper and paperboard industry¹ (2003)

Jobs (no.)	17 370
Salaries and wages (\$, 000s)	1 057 235
Value of shipments and other revenue (\$, 000s)	7 357 229
Value added ² to total activity (\$, 000s)	2 864 324
Capital expenditures and repairs (\$, 000s)	1 349 000

1. According to NAICS 3221, which is a subdivision of Statistics Canada group 322 (paper manufacturing industry).

2. Including purchase of services.

Destination of Québec's pulp and paper shipments (2003) (mt, 000s)

	Canada	United States	Other countries	Total
Newspaper	515	2 388	798	3 701
Market pulp	230	503	788	1 521
Other paper and paperboard	1 402	2 948	160	4 510
Total	2 147	5 839	1 746	9 732

Destination of Québec's pulp and paper shipments (2004) (tm, 000s)

	Canada	United States	Other countries	Total
Newspaper	474	2 339	685	3 498
Market pulp	273	451	811	1 535
Other paper and paperboard	1 471	3 203	200	4 874
Total	2 218	5 993	1 696	9 907

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

	2002	2003	2004
Pulp and paper exports	7 525	6 887	7 264
Total exports	68 246	64 228	68 614
Relative share (%)	11,0	10,7	10,6

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

	2002	2003	2004
Québec's shipments to the US	2 817	2 800	2 636p
US newsprint consumption	10 202	10 102	9 932p
Relative share (%)	27,6	27,7	26,5p

Québec's balance of trade¹ in the pulp and paper sector² (2005) (\$, million)

	Exports	Imports	Balance of trade
Woodpulp or pulp derived from other cellulosic fibrous materials, paper or paperboard for recycling (waste and residues)	923,4	191,2	732,2
Paper or paperboard; cellulose products, in paper or paperboard	6 457,3	982,1	5 475,2
Total	7 380,7	1 173,3	6 207,4

1. Balance of trade inside and outside Canada. (à vérifier)

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

Québec's balance of trade¹ in the pulp and paper² products manufacturing (2005) (\$, million)

	Exports	Imports	Balance of trade
Pulp, paper and paperboard mills (NAICS 3221)	6 550,3	772,5	5 777,8
Converted paper product manufacturing (NAICS 3222)	711,9	277,2	434,7
Total	7 262,2	1 049,7	6 212,5

1. Balance of trade inside and outside Canada. (à vérifier)

2. According to NAICS.

Environmental protection

	1981	2003	2003 / 1981
Total suspended solids (TSS) in mill effluent (kg/ton of pulp produced)	26,0	2,2	-92 %
Biochemical oxygen demand (BOD_5) in mill effluent (kg/ton of pulp produced)	59,1	1,6	-97 %
Water consumption by mills (m ³ /ton of pulp produced)	121,0	52,0	-57 %

Investments by papermills to clean up atmospheric emissions (2001)

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

11 The pulp and paper industry (*Nouvelle feuille*)

Highlights

Québec's pulp, paper and paperboard mills (May 2005)

Mills consuming roundwood, chips, sawdust and shavings (primary processing mills)	38
Mills consuming marketed (<i>achetées</i>) pulp and recycled fibres	27
Total	65

Québec's pulp, paper and paperboard mills and production capacity (May 2005)¹

	Mills (no.)	Production capacity (BDMT, 000s/year)
Market pulp	9	3 641,2
Newsprint (mechanical, supercalandered, etc.)	20	5 198,5
Paperboard packaging and other paperboard	11	1 977,8
Low-density board	2	114,5
Fine and specialty paper	4	902,8
Construction paperboard	2	36,0
Kraft papers (packing, carbon)	2	111,2
Sanitary tissue	15	675,0
Total	65	12 657,0

1. Classification by main product.

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

	2002	2003
Mechanical pulp mills	5	4
Chemical pulp mills	7	7
Paper (except newsprint) mills	25	28
Newsprint mills	20	17
Paperboard mills	21	23
Corrugated and solid paperboard box manufacturing	35	32
Folding paperboard box manufacturing	28	28
Other paperboard container manufacturing	19	19
Paper bag and <i>coated</i> and treated paper manufacturing	38	43
Stationery product manufacturing	21	22
Sanitary paper product manufacturing	15	16
All other converted paper product manufacturing	14	13
Total	248	252

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

	2002	2003
Commercial screen printing	115	116
Quick printing	34	34
Digital printing	30	34
Manifold business forms printing	88	85
Other printing	796	792
Support activities for printing	190	186
Total	1 253	1 247

Main timber supply sources for Québec's pulp and paper industry (2004) (m³, 000s)

Roundwood and chips (public forests)	1 714,9
Roundwood and chips (private forests)	1 885,5
Roundwood, chips, sawdust and shavings from Québec's mills	18 558,5
Roundwood, chips, sawdust and shavings from outside Québec	2 548,8
Total	24 707,6

Raw materials used in Québec's pulp and paper mills (2004) (BDMT, 000s)

Roundwood	1 896,0
Joint sawmill production	8 465,0
Recycled fibres and commercial pulp	2 889,0
Total	13 250,0

Recycled fibre from paper and paperboard recycled by Québec's pulp and paper industry (2004) (BDMT, 000s)

Recovered paper for de-inking	1 223,2
Recovered paper, without de-inking	173,6
Recovered paperboard, without de-inking	586,7
Total	1 983,5

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

	2002	2003	2004
Sulphate pulp (Kraft)	2 092	2 083	2 122
Thermomechanical pulp	3 547	3 765	3 823
Recycled pulp	1 647	1 609	1 705
Other pulp	1 439	1 275	1 242
Total	8 725	8 732	8 892

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

	2003	2004
Newsprint	3 851	3 472
Printing and writing papers	2 598	3 077
Sanitary tissue	296	327
Other papers	150	130
Paperboard	1 710	1 760
Total	8 604	8 766

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

	2003		2004	
	Newsprint	Other paper and paperboard	Newsprint	Other paper and paperboard
Québec	3 729	4526	3 488	4 907
Canada	8 487	11633	8 201	12 377
Québec/Canada (%)	43,9	38,9	42,5	39,6

11 Pulp and paper industry (Nouvelle feuille)

Highlights (cont'd)

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

	2002	2003	2004	2005
Jobs (no.)	2 214 765	3 361 042	3 462 989	3 453 772
Salaries and wages (\$, 000s)				
Value of shipments and other revenue (\$, 000s)	1 620 038	10 882 369		
Value added ² to total activity (\$, 000s)	4 190 229			
Capital expenditures and repair (\$, 000s)	1 697 400			

Economic indicators for Québec's paper products industry¹ (2003)

	2002	2003	2004	2005
Jobs (no.)	29 884			
Salaries and wages (\$, 000s)		1 620 038		
Value of shipments and other revenue (\$, 000s)	10 882 369			
Value added ² to total activity (\$, 000s)	4 190 229			
Capital expenditures and repair (\$, 000s)	1 697 400			

1. According to NAICS 322, Statistics Canada (paper manufacturing industry).

2. Including purchase of services.

Economic indicators for Québec's wood pulp, paper and paperboard industry¹ (2003)

	2002	2003	2004	2005
Jobs (no.)	17 370			
Salaries and wages (\$, 000s)		1 057 235		
Value of shipments and other revenue (\$, 000s)	7 357 229			
Value added ² to total activity (\$, 000s)	2 864 324			
Capital expenditures and repairs (\$, 000s)	1 349 000			

1. According to NAICS 3221, which is a subdivision of Statistics Canada group 322 (paper products industry).

2. Including purchase of services.

Destination of Québec's pulp and paper shipments (2003) (mt, 000s)

	Canada	United States	Other countries	Total
Newsprint	515	2 388	798	3 701
Market pulp	230	503	788	1 521
Other paper and paperboard	1 402	2 948	160	4 510
Total	2 147	5 839	1 746	9 732

Destination of Québec's pulp and paper shipments (2004) (tm, 000s)

	Canada	United States	Other countries	Total
Newsprint	474	2 339	685	3 498
Market pulp	273	451	811	1 535
Other paper and paperboard	1 471	3 203	200	4 874
Total	2 218	5 993	1 696	9 907

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

	2002	2003	2004
Pulp and paper exports	7 525	6 887	7 264
Total exports	68 246	64 228	68 614
Relative share (%)	11,0	10,7	10,6

11.00.01 (2)

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

	2002	2003	2004
Québec's shipments to the US	2 817	2 800	2 636p
US newsprint consumption	10 202	10 102	9 932p
Relative share (%)	27,6	27,7	26,5p

Economic indicators for Québec's printing and related support activities (2003)

	2002	2003	2004
Jobs (no.)	20 994		
Salaries and wages (\$, 000s)		828 856	
Value of shipments and other revenue (\$, 000s)	3 365 855		
Value added ² to total activity (\$, 000s)	1 850 219		
Capital expenditures and repair (\$, 000s)	151 900		

1. Including purchase of services.

Québec's balance of trade¹ in the printing and related activities² sector (2005) (\$, million)

	Exports	Imports	Balance of trade
Printing and related support activities	569,2	136,6	432,6

1. Balance of trade inside and outside Canada. (à vérifier)

2. According to NAICS.

Québec's balance of trade¹ in the pulp and paper, printing and related support activities manufacturing² (2005) (\$, million)

	Exports	Imports	Balance of trade
Pulp and paper manufacturing	7 262,2	1 049,7	6 212,5
Printing and related support activities	569,2	136,6	432,6
Total	7 831,4	1 186,3	6 645,1

1. Balance of trade inside and outside Canada. (à vérifier)

2. According to NAICS.

Environmental protection

	1981	2003	2003 / 1981
Total suspended solids (TSS) in mill effluent (kg/ton of pulp produced)	26,0	2,2	-92 %
Biochemical oxygen demand (BOD_5) in mill effluent (kg/ton of pulp produced)	59,1	1,6	-97 %
Water consumption by mills (m ³ /ton of pulp produced)	121,0	52,0	-57 %

Investments by papermills to clean up atmospheric emissions (2001)

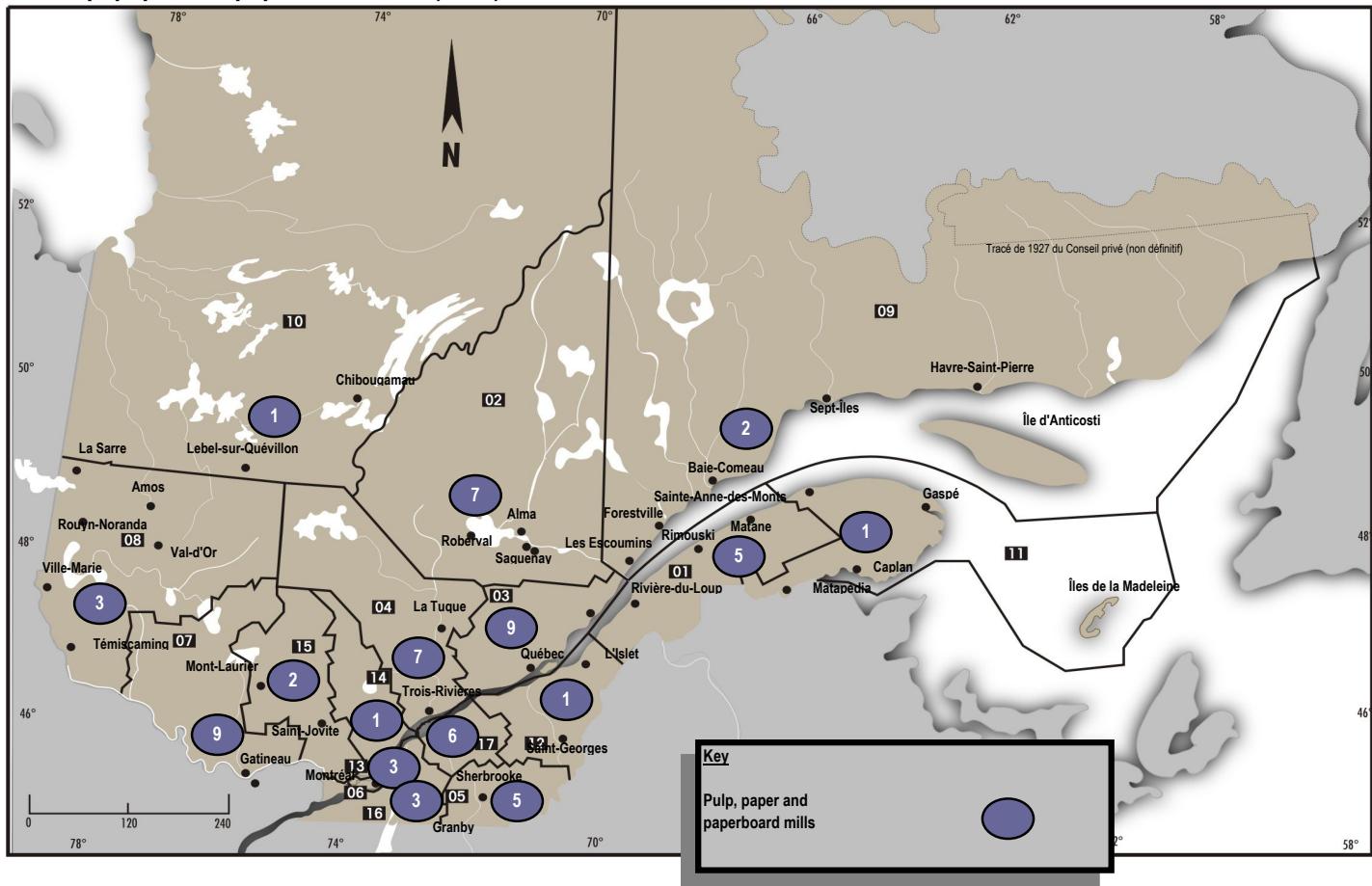
	Québec investments (\$, 000s)	Canadian investments (\$, 000s)	Québec/Canada (%)
Québec investments (\$, 000s)	12 177		
Canadian investments (\$, 000s)		213 497	
Québec/Canada (%)			5,7

11 The pulp and paper industry

Production capacity

Pulp, paper and paperboard mills (2005)

11.01.01

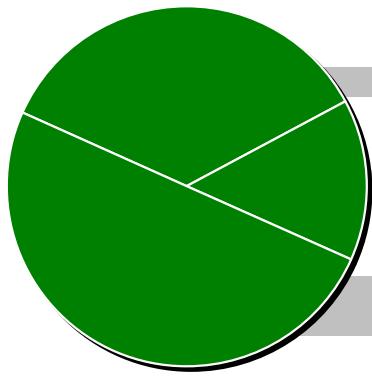


11 The pulp and paper industry

Production

Breakdown of production by product

11.02.05



Production (%)			Products			Production (mt, 000s)		
2002	2003	2004p				2002	2003	2004p
37	38	36	Newsprint			3 726	3 729	3 488
15	15	14	Market pulp			1 464	1 442	1 419
48	47	50	Paperboard and paper other than newsprint			4 803	4 526	4 907
100	100	100	Total			9 993	9 697	9 814

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

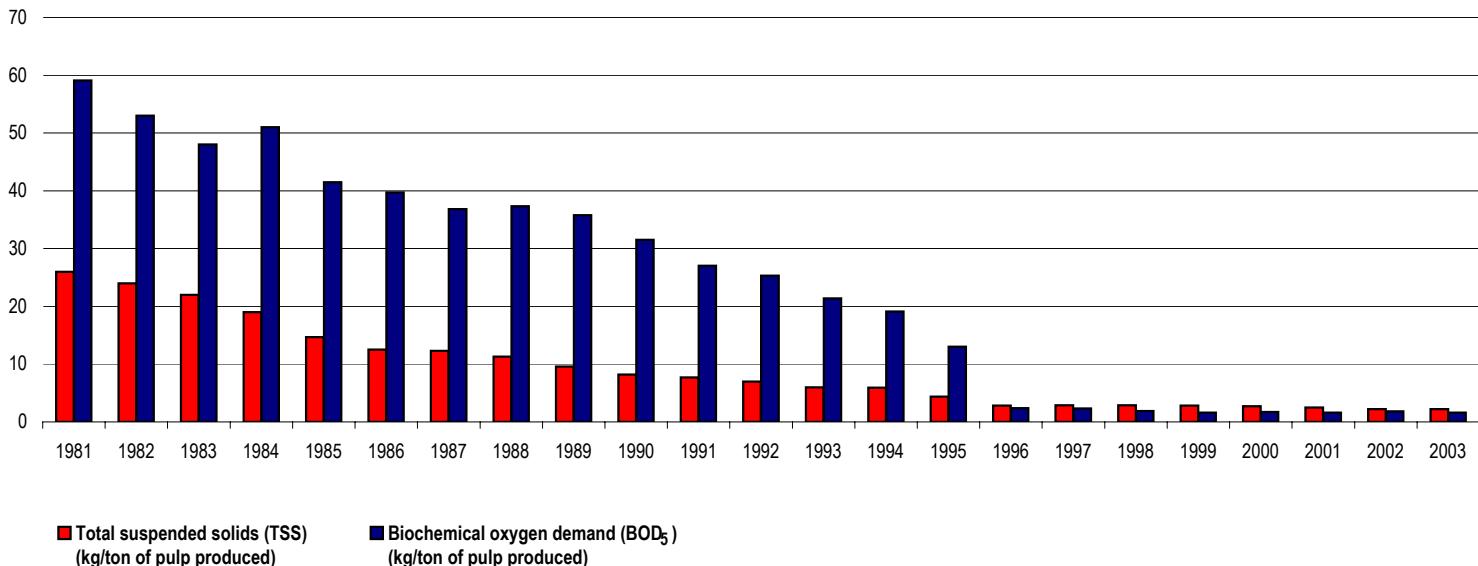
11 The pulp and paper industry

Environment

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

11.06.02

(kg/ton of pulp produced)



11 Industries des pâtes et papiers

11.6 Environnement (suite)

Évolution de la qualité des effluents des usines québécoises de pâtes et papiers

11.06.02 (g)

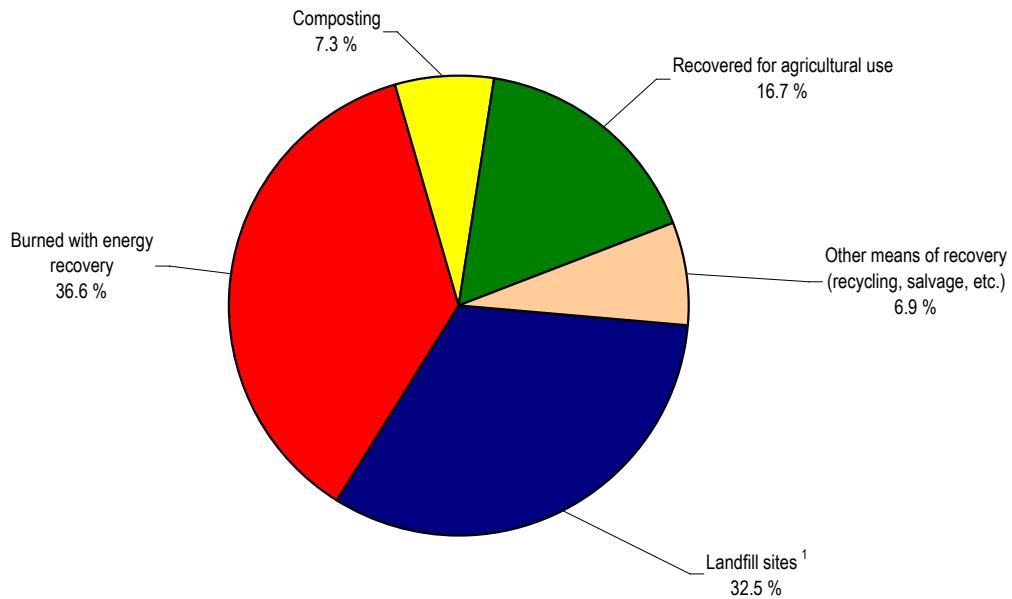
	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Matières en suspension (MES) (kg/tonne de production)	26,0	24,0	22,0	19,0	14,7	12,5	12,3	11,3	9,6	8,2	7,7	7,0	6,0	5,9	4,4	2,8	2,9	2,9	2,8	2,7	2,5	2,2	2,2
Demande biochimique en oxygène (DBO ₅) (kg/tonne de production)	59,1	53,0	48,0	51,0	41,5	39,7	36,8	37,3	35,8	31,5	27,0	25,3	21,4	19,1	13,0	2,4	2,3	1,9	1,6	1,7	1,6	1,8	1,6

11 The pulp and paper industry

Environment (cont'd)

Where did Québec's paper mill waste go in 2003?

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

12.00.01

Economic indicators for Québec's forest products industry (2003)

	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)	13 377	465 317	2 784 154	913 018
Wood product manufacturing (NAICS 321)	39 175	1 384 922	9 053 561	3 304 631
Paper manufacturing (NAICS 322)	29 884	1 620 038	10 882 369	4 190 229
Total (forest sector)	82 436	3 470 277	22 720 084	8 407 878
Overall manufacturing activity in Québec	546 725	21 502 054	141 623 090	54 164 405

1. Including purchase of services.

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

	2004	2005
Raw wood, sawn wood and lumber	4 685,2	4 296,5
Pulp, paper and paperboard	7 264,1	7 380,7
Total (forest sector)	11 949,3	11 677,2

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

Québec's balance of trade ¹ in the forest products sector and for all products ² (2005) (\$, million)

	Imports	Exports	Balance of trade
Wood, wood charcoal and wood products			
Pulp, paper and paperboard	996,8	4 296,5	3 299,7
	1 173,3	7 380,7	6 207,4
Total (forest products sector)	2 170,1	11 677,2	9 507,1
All products	76 865,0	71 093,0	-5 771,0

1. Balance of trade inside and outside Canada. (à vérifier)

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

Gross domestic product (GDP)¹ at factor cost by economic activity ² (2004)

	(\$, million)	(% change)
Forestry and logging (NAICS 113)	1 603,2	6,9
Wood product manufacturing (NAICS 321)	3 727,4	2,2
Paper manufacturing (NAICS 3221 and 3222)	4 068,8	-8,8
Economy as a whole	219 193,6	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.

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

	2004	2005
Sawmills	4 137	3 594
Other prefabricated millwork	1 507	1 480
Oriented strand board (OSB)	663	442
Particle board	698	663
Wooden doors and windows	763	667
Wooden boxes and pallets	189	184
Wooden structural products	454	450
Wooden kitchen cabinets	687	689
Wood pulp	1 044	921
Newspaper	3 956	4 374
Paperboard	681	597
Paperboard containers	1 621	1 540

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

	2004	2005
Canada	233 436	225 481
United States	1 955 800	2 068 000

Québec's balance of trade ¹ in the forest products sector and for all products ² (2005) (\$, million) (Nouveau tableau)

	Imports	Exports	Balance of trade
Wood product manufacturing	631,2	4 201,2	3 570,0
Wood pulp, paper and paperboard, converted paper product manufacturing mills	1 049,7	7 262,3	6 212,6
Total (forest products sector)	1 680,9	11 463,5	9 782,6
All products	71 093,4	76 864,8	-5 771,4

1. Balance of trade inside and outside Canada. (à vérifier)

2. According to (NAICS).

Financial indicators

	2004	2005
Average exchange rate (C\$/US\$)	1,302	1,212
Average exchange rate (C\$/£)	2,384	2,207
Average exchange rate (C\$/€)	1,617	1,509
Average exchange rate (C\$/¥)	0,012	0,011
Average discount rate		
• Canada (%)	2,50	2,69
• United States (%)	1,39	3,25
Average prime rate		
• Canada (%)	4,00	4,42
• United States (%)	4,40	6,25
Stock market index (paper and forest product market prices, Toronto Exchange)	9 246,65	..

12 The forest sector in Québec's economy

Highlights (cont'd)

12.00.01

Average price of principal forest products

	2004	2005
Softwood lumber,		
Toronto green (composite price) (C\$/1 000 bd ft)	405,8	387,9
Softwood lumber,		
Columbus dry (composite price) (C\$/1 000 bd ft)	526,0	472,8
Hardwood lumber,		
Montreal exchange (weighted price) (C\$/1 000 bd ft)	765,8	659,3
Plywood (12.5 mm) (C\$/1 000 sq.ft.)	680,6	485,6
Oriented strand board (OSB) 7/16" (C\$/1 000 sq.ft.)	504,0	403,0
Bleached softwood kraft pulp (US\$/mt)	650,0	640,0
Bleached hardwood kraft pulp (US\$/mt)	545,0	615,0
Newspaper (US\$/mt)	580,0	645,0

Estimated revenue from wood chips in Québec

(C\$/1 000 bd ft)¹

	2004	2005
	119,0	125,0

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

Profits made by Canada's forest products industry

	2004	2005
Profits (\$, million)	1045	375
Profits/sales (%)	5,4	2,0

Share of paper mill-integrated sawmills in authorized roundwood consumption

1987	28,1 % of total consumption
2004	47,8 % of total consumption

Budget allocated to the secteur des forêts and the secteur des services régionaux, MRNF¹, 2004-2005² (\$, 000s)

Research and development	15 143,1
Forestry policies and programs	63 479,7
Forest management planning and monitoring	98 601,9
Seedling production	43 588,7
Internal management and support	900,0
Forestry loans	500,0
Total	222 213,4

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

12 The forest sector in Québec's economy (Nouvelle feuille)

Highlights

12.00.01 (2)

Economic indicators for Québec's forest products industry (2003) (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)	13 377	465 317	2 784 154	913 018
Wood product manufacturing (NAICS 321)	39 175	1 384 922	9 053 561	3 304 631
Furniture and related product manufacturing (NAICS 337)	35 026	1 056 872	4 083 036	2 157 188
Paper manufacturing (NAICS 322)	29 884	1 620 038	10 882 369	4 190 229
Printing and related support activities (NAICS 323)	20 994	828 856	3 365 855	1 850 219
Total (forest sector)	138 456	5 356 005	30 168 975	12 415 285
Overall manufacturing activity in Québec	546 725	21 502 054	141 623 090	54 164 405

1. Including purchase of services.

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

	2004	2005
Forestry and logging (NAICS 113)	11.8	10.2
Wood product manufacturing (NAICS 321)	4 588.2	4 201.2
Furniture and related product manufacturing (NAICS 337)	1 707.4	1 515.6
Paper manufacturing (NAICS 3221 and 3222)	7 156.1	7 262.3
Printing and related support activities (NAICS 323)	550.6	569.2
Total (forest sector)	14 014.2	13 558.4

1. According to (NAICS).

Gross domestic product (GDP)¹ at factor cost by economic activity (2004)² (including furniture and printing)

	(\$, million)	(% change)
Forestry and logging (NAICS 113)	1 603.2	6.9
Wood product manufacturing (NAICS 321)	3 727.4	2.2
Furniture and related product manufacturing (NAICS 337)	1 650.1	-1.9
Paper manufacturing (NAICS 3221 and 3222)	4 068.8	-8.8
Printing and related support activities (NAICS 323)	1 467.8	0.9
Economy as a whole	219 193.6	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.

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

	2004	2005
Sawmills	4 137	3 594
Other prefabricated millwork	1 507	1 480
Oriented strand board (OSB)	663	442
Particle board	698	663
Wooden doors and windows	763	667
Wooden boxes and pallets	189	184
Wooden structural products	454	450
Wooden kitchen cabinets	687	689
Furniture	3 915	3 966
Wood pulp	1 044	921
Newsprint	3 956	4 374
Paperboard	681	597
Cardboard containers	1 621	1 540
Printing	2 824	2 828

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

	2004	2005
Canada	233 436	225 481
United States	1 955 800	2 068 000

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

	Imports	Exports	Balance of trade
Wood product, furniture and related product manufacturing	1 260.7	5 716.8	4 456.1
Wood pulp, paper and paperboard, converted paper product manufacturing and printing and related support activities mills	1 186.3	7 831.4	6 645.1
Total (forest products sector)	2 447.0	13 548.2	11 101.2
All products	76 864.8	71 093.4	-5 771.4

1. Balance of trade inside and outside Canada. (à vérifier)

2. According to (NAICS).

Financial indicators

	2004	2005
Average exchange rate (C\$/US\$)	1.302	1.212
Average exchange rate (C\$/£)	2.384	2.207
Average exchange rate (C\$/€)	1.617	1.509
Average exchange rate (C\$/¥)	0.012	0.011
Average discount rate		
• Canada (%)	2.50	2.69
• United States (%)	1.39	3.25
Average prime rate		
• Canada (%)	4.00	4.42
• United States (%)	4.40	6.25
Stock market index (paper and forest product market prices, Toronto Exchange)	9 246.65	..

12 The forest sector in Québec's economy (**Nouvelle feuille**)

Highlights (cont'd)

12.00.01 (2)

Average price of principal forest products

	2004	2005
Softwood lumber,		
Toronto green (composite price) (C\$/1 000 bd ft)	405,8	387,9
Softwood lumber,		
Columbus dry (composite price) (C\$/1 000 bd ft)	526,0	472,8
Hardwood lumber,		
Montreal exchange (weighted price) (C\$/1 000 bd ft)	765,8	659,3
Plywood (12.5 mm) (C\$/1 000 sq.ft.)	680,6	485,6
Oriented strand board (OSB) 7/16" (C\$/1 000 sq.ft.)	504,0	403,0
Bleached softwood kraft pulp (US\$/mt)	650,0	640,0
Bleached hardwood kraft pulp (US\$/mt)	545,0	615,0
Newspaper (US\$/mt)	580,0	645,0

Estimated revenue from wood chips in Québec

(C\$/1 000 bd ft)¹

	2004	2005
	119,0	125,0

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

Profits made by Canada's forest products industry

	2004	2005
Profits (\$, million)	1045	375
Profits/sales (%)	5,4	2,0

Share of paper mill-integrated sawmills in authorized roundwood consumption

1987	28,1 % of total consumption
2004	47,8 % of total consumption

Budget allocated to the secteur des forêts and the secteur des services régionaux, MRNF¹, 2004-2005² (\$, 000s)

Research and development	15 143,1
Forestry policies and programs	63 479,7
Forest management planning and monitoring	98 601,9
Seedling production	43 588,7
Internal management and support	900,0
Forestry loans	500,0
Total	222 213,4

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.

12 The forest sector in Québec's economy

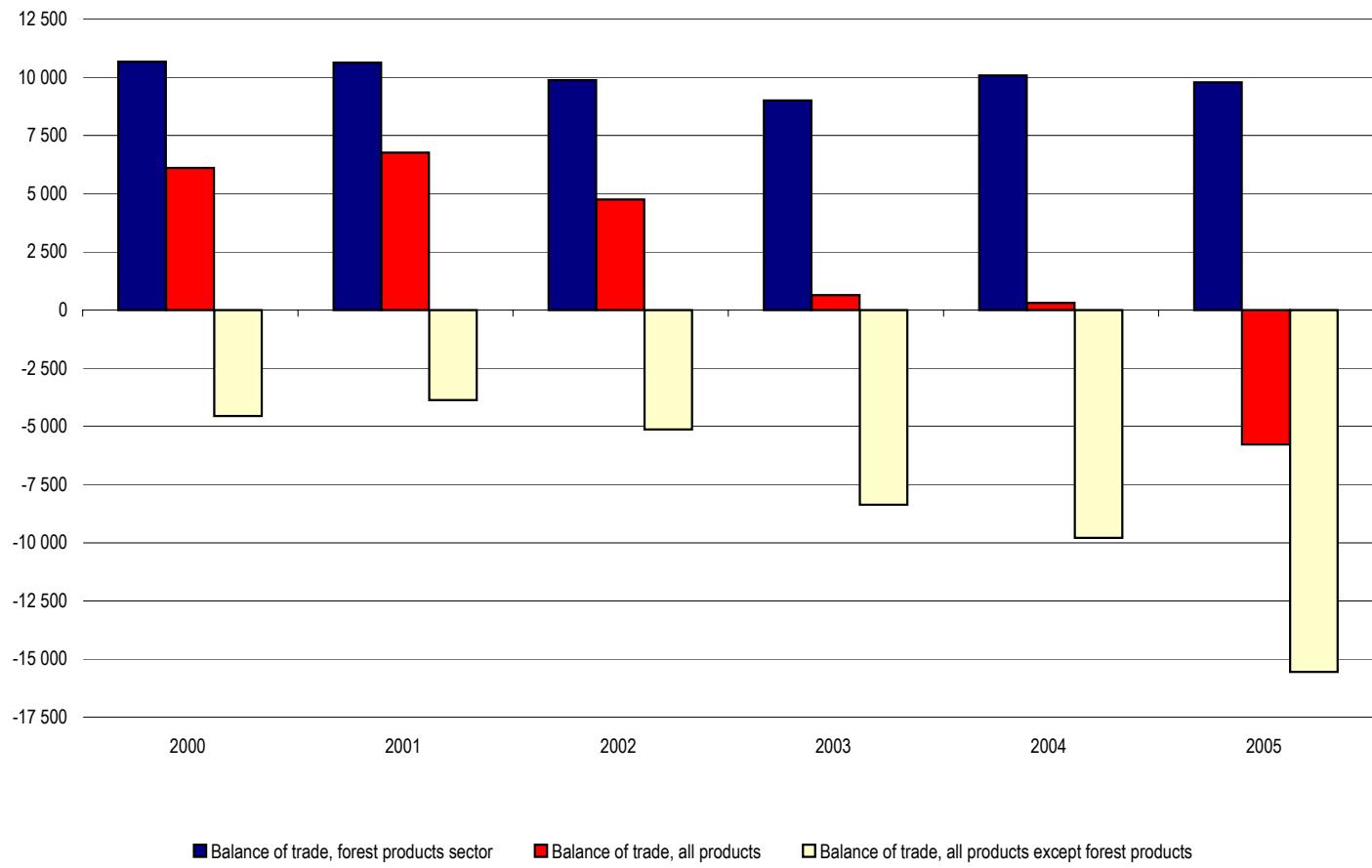
Economic and financial indicators

Economic indicators for the forest sector

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

(\$, million)

12.01.13



1. Balance of trade inside and outside Canada. (à vérifier)

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)

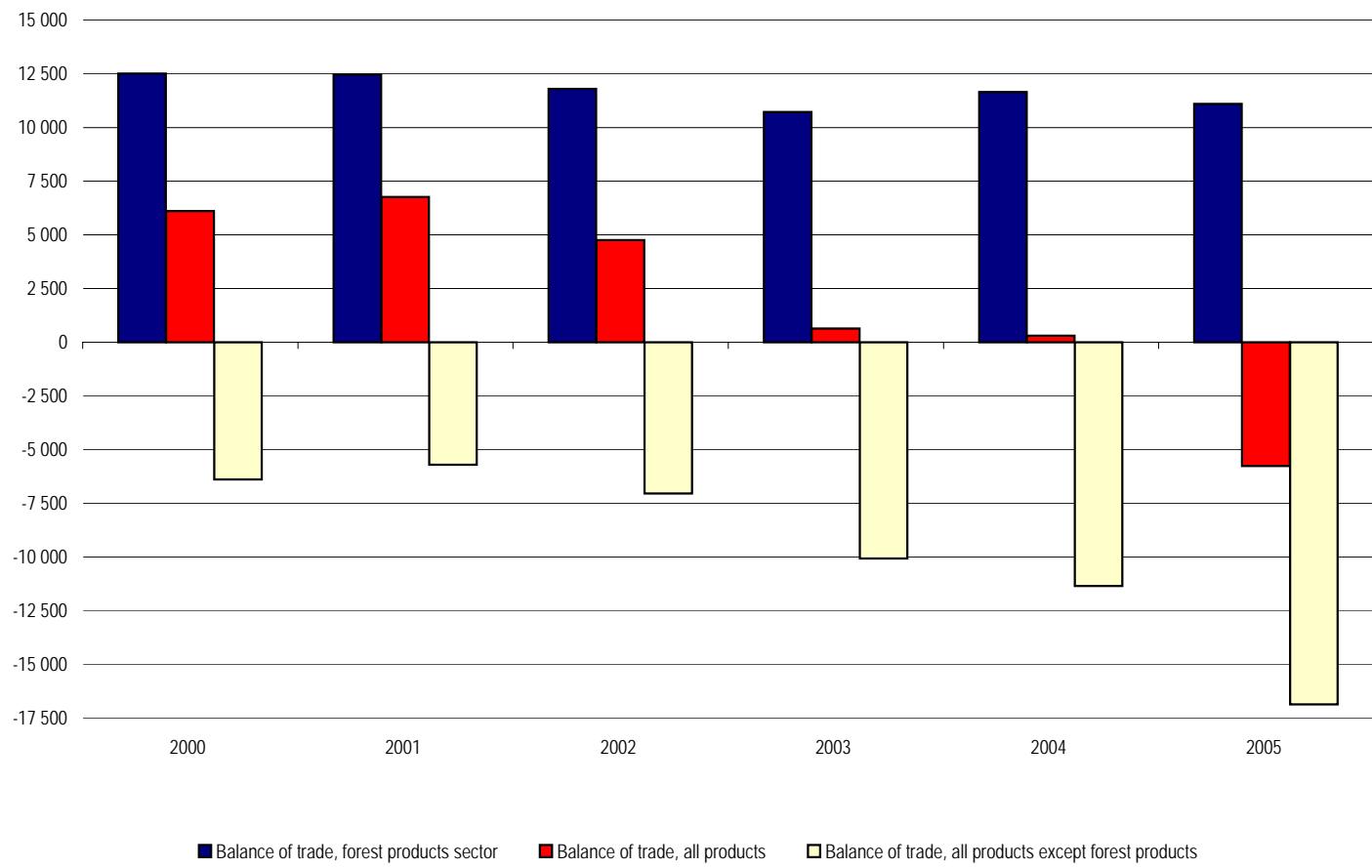
Economic indicators for the forest sector (cont'd)

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 inside and outside Canada. (à vérifier)

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

Source : Institut de la statistique du Québec.

12 Le secteur forestier dans l'économie québécoise

12.1 Indicateurs économiques et financiers (suite)

Indicateurs économiques du secteur forestier (suite)

12.01.12 (g)

Balance commerciale québécoise¹ dans le secteur des produits forestiers et dans l'ensemble des produits (M\$)²

	2000	2001	2002	2003	2004	2005
Bois, charbon de bois et produits en bois	3 526,8	3 348,7	3 154,9	2 935,9	3 692,7	3 299,7
Pâtes de bois ou d'autres matières fibreuses cellulosiques, papiers ou cartons à recycler	893,3	663,6	705,1	744,3	799,8	732,1
Papiers et cartons; produits en pâte de cellulose, en papier ou carton	5 918,5	6 291,7	5 644,6	5 008,5	5 265,8	5 475,2
Balance commerciale dans le secteur des produits forestiers	10 338,7	10 304,1	9 504,7	8 688,7	9 758,3	9 507,1
Balance commerciale dans l'ensemble des produits	5 977,5	6 758,8	4 728,8	593,1	(156,0)	(5 771,0)
Balance commerciale dans l'ensemble des produits, à l'exclusion du secteur des produits forestiers	(4 361,2)	(3 545,4)	(4 775,9)	(8 095,6)	(9 914,3)	(15 278,1)

1. Solde des échanges commerciaux en provenance et à destination de l'extérieur du Canada.

2. Appellations conformes au système harmonisé de désignation et de codification des marchandises de l'Organisation mondiale des douanes.

Source : Institut de la statistique du Québec, selon la Classification type de biens.

12.01.13 (g)

Balance commerciale québécoise¹ dans le secteur des produits forestiers et dans l'ensemble des produits (M\$)²

	2000	2001	2002	2003	2004	2005
Fabrication de produits en bois — SCIAN 321	3 800,5	3 659,6	3 482,1	3 198,6	3 976,0	3 570,0
Usines de pâte à papier, de papier et de carton — SCIAN 3221 et						
Fabrication de produits en papier transformé — SCIAN 3222	6 867,6	6 974,6	6 402,4	5 809,3	6 111,4	6 212,6
Balance of trade, forest products sector	10 668,2	10 634,2	9 884,5	9 007,9	10 087,3	9 782,6
Balance of trade, all products	6 111,1	6 761,0	4 748,0	641,0	300,0	(5 771,0)
Balance of trade, all products except forest products	(4 557,1)	(3 873,2)	(5 136,5)	(8 366,9)	(9 787,3)	(15 553,6)

1. Solde des échanges commerciaux en provenance et à destination de l'extérieur du Canada.

2. Appellations conformes au système de classification des industries de l'Amérique du Nord (SCIAN).

Source : Institut de la statistique du Québec.

12.01.13 (2g)

Balance commerciale québécoise¹ dans le secteur des produits forestiers (**y compris les meubles et l'impression**) et dans l'ensemble des produits (M\$)²

	2000	2001	2002	2003	2004	2005
Fabrication de produits en bois -- SCIAN 321	3 800,5	3 659,6	3 482,1	3 198,6	3 976,0	3 570,0
Fabrication de meubles et de produits connexes --SCIAN 337	1 391,9	1 388,8	1 427,5	1 250,5	1 142,5	886,0
Usines de pâte à papier, de papier et de carton, et fabrication de produits en papier transformé -- SCIAN 3221 et 3222	6 867,6	6 974,6	6 402,4	5 809,3	6 111,4	6 212,6
Impression et activités connexes de soutien -- SCIAN 323	447,7	444,9	482,6	461,7	421,4	432,6
Balance of trade, forest products sector	12 507,8	12 467,9	11 794,7	10 720,1	11 651,2	11 101,2
Balance of trade, all products	6 111,1	6 761,0	4 748,0	641,0	300,0	(5 771,0)
Balance of trade, all products except forest products	(6 396,7)	(5 706,9)	(7 046,7)	(10 079,1)	(11 351,2)	(16 872,2)

1. Solde des échanges commerciaux en provenance et à destination de l'extérieur du Canada.

2. Appellations conformes au système de classification des industries de l'Amérique du Nord (SCIAN).

Source : Institut de la statistique du Québec.

12 The forest sector in Québec's economy

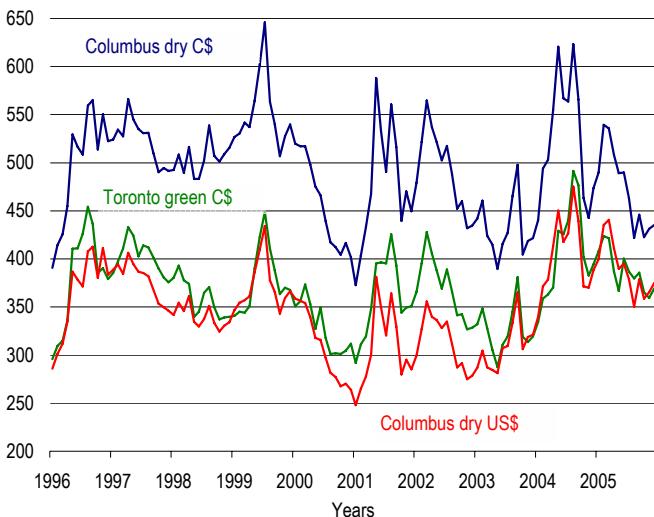
Economic and financial indicators (cont'd) Economic indicators for the forest sector (cont'd)

Price trends

1) Softwood lumber (composit price)

(\$/1000 bd ft)

12.01.38

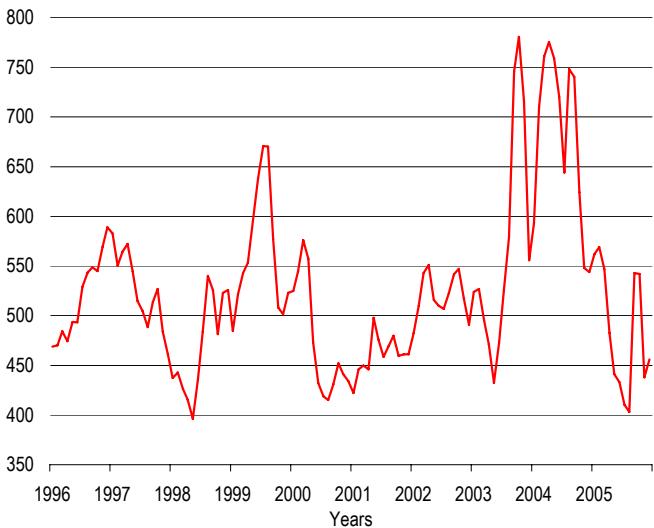


Source : Pribec.

3) Plywood (12.5 mm)

(C\$/1000 sq.ft.)

12.01.40

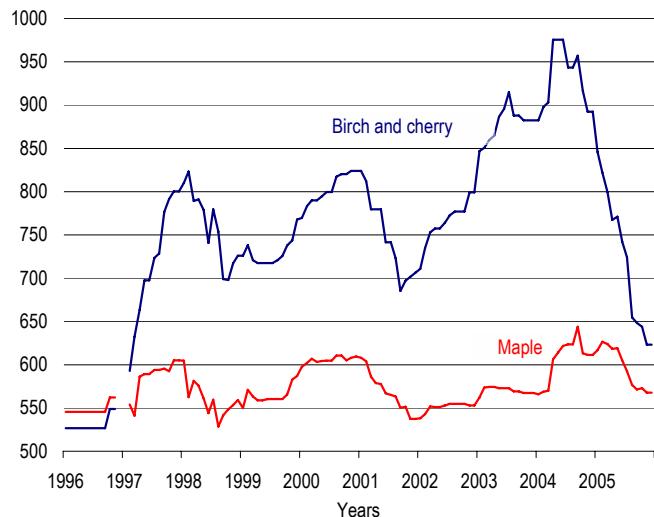


Source : Madison's Canadian Lumber Reporter.

2) Hardwood lumber (weighted price)^{1,2}

(C\$/1 000 bd ft)

12.01.39



1. 4/4 raw, F.O.B. Montreal, valid to November 1996.

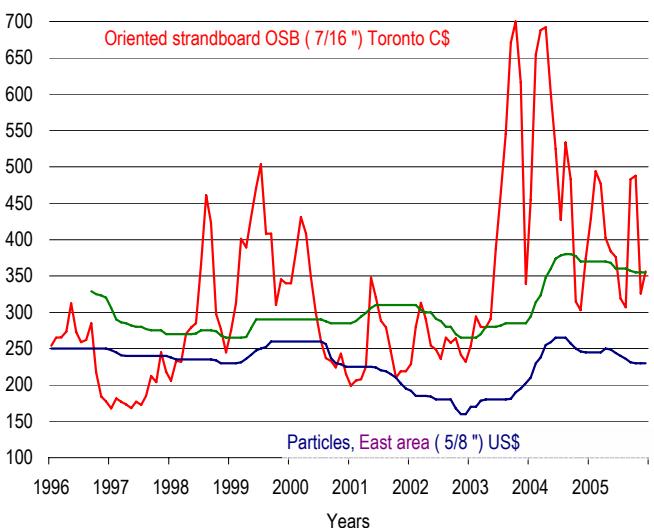
2. 4/4 raw, F.O.B. mill, beginning 1997.

Source : Pribec.

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)

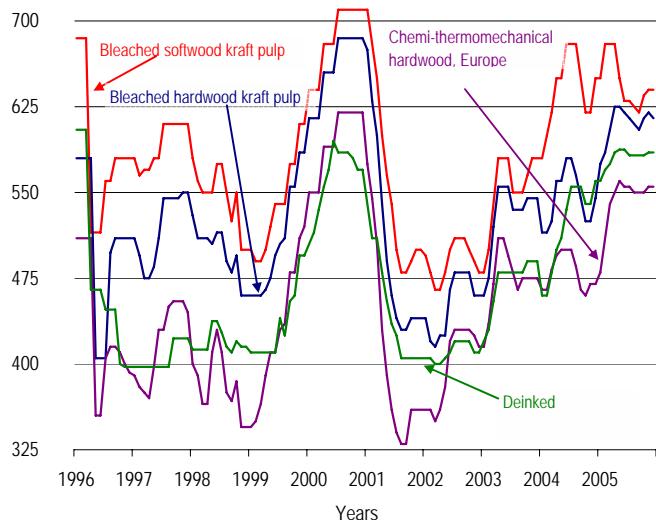
Economic indicators for the forest sector (cont'd)

Price trends (cont'd)

5) Market pulp

(US\$/mt)

12.01.42

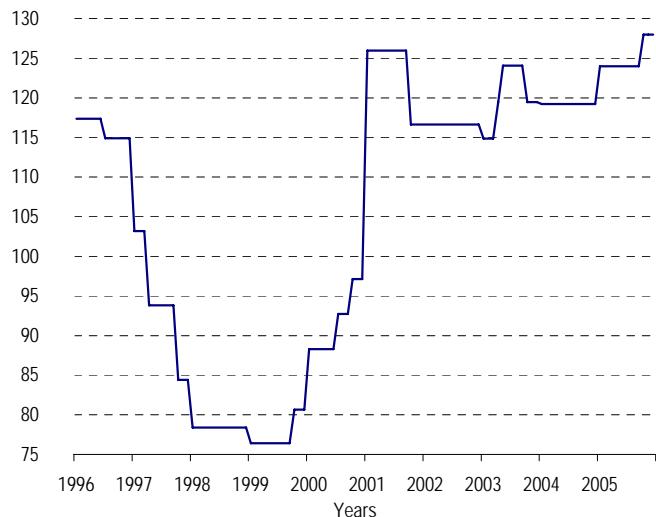


Source : RISI, Inc.

7) Revenue from Chips¹

(C\$/1 000 bd ft)

12.01.44



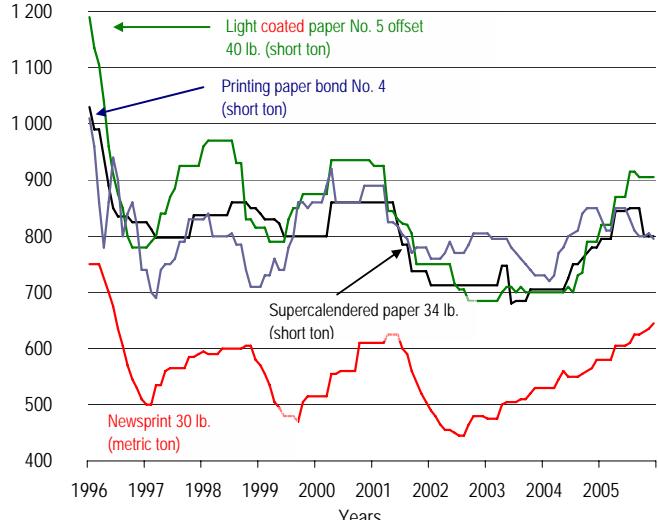
1. The calculation takes into account chip production per 1 000 bd ft.

Source : Ministère des Ressources naturelles et de la Faune.

6) Paper

(US\$)

12.01.43



Source : RISI, Inc.

12 The forest sector in Québec's economy

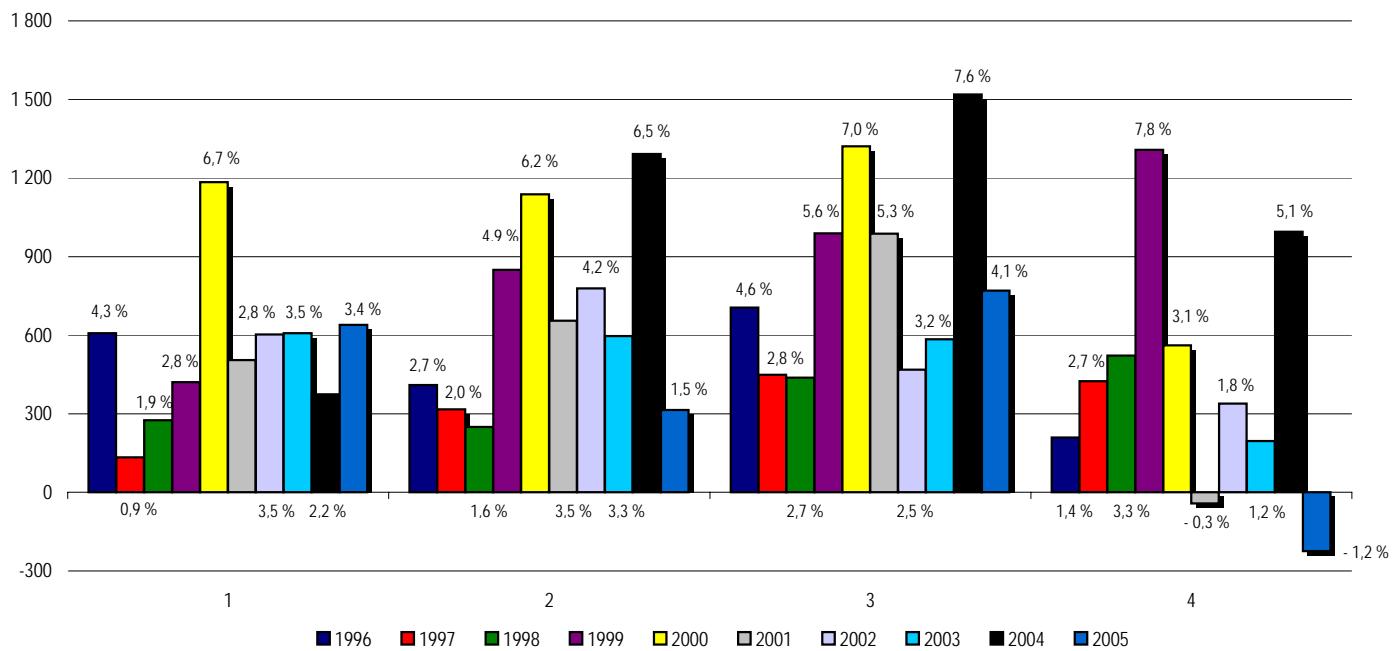
Economic and financial indicators (cont'd)

Financial indicators for the forest sector (cont'd)

Wood and paper (Canada)

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

12.01.45



Source : Statistics Canada : 61-008.

12 The forest sector in Québec's economy

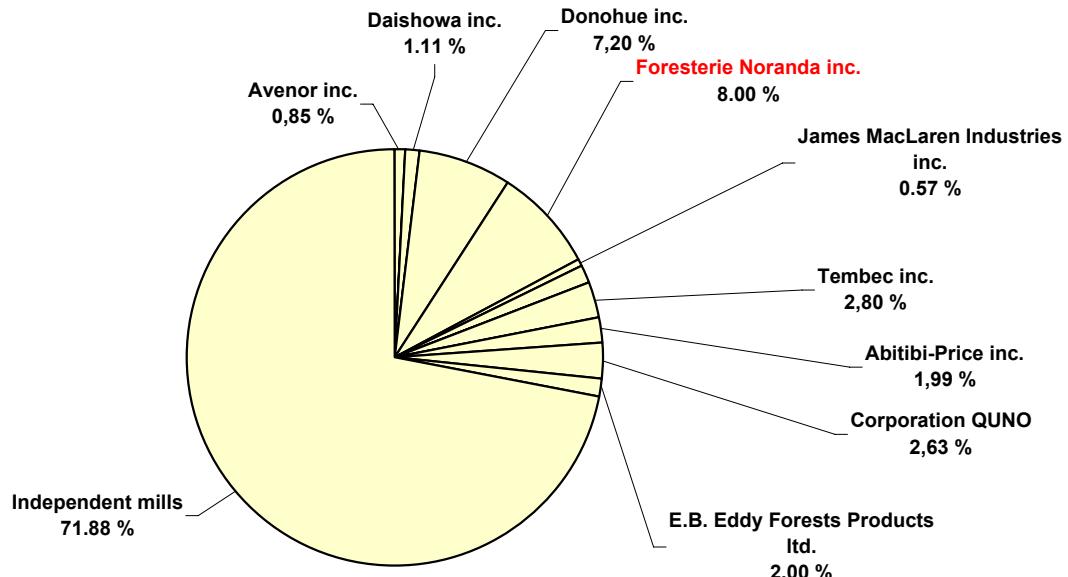
Economic and financial indicators (cont'd)

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 2004

