Antigonish Subdivision

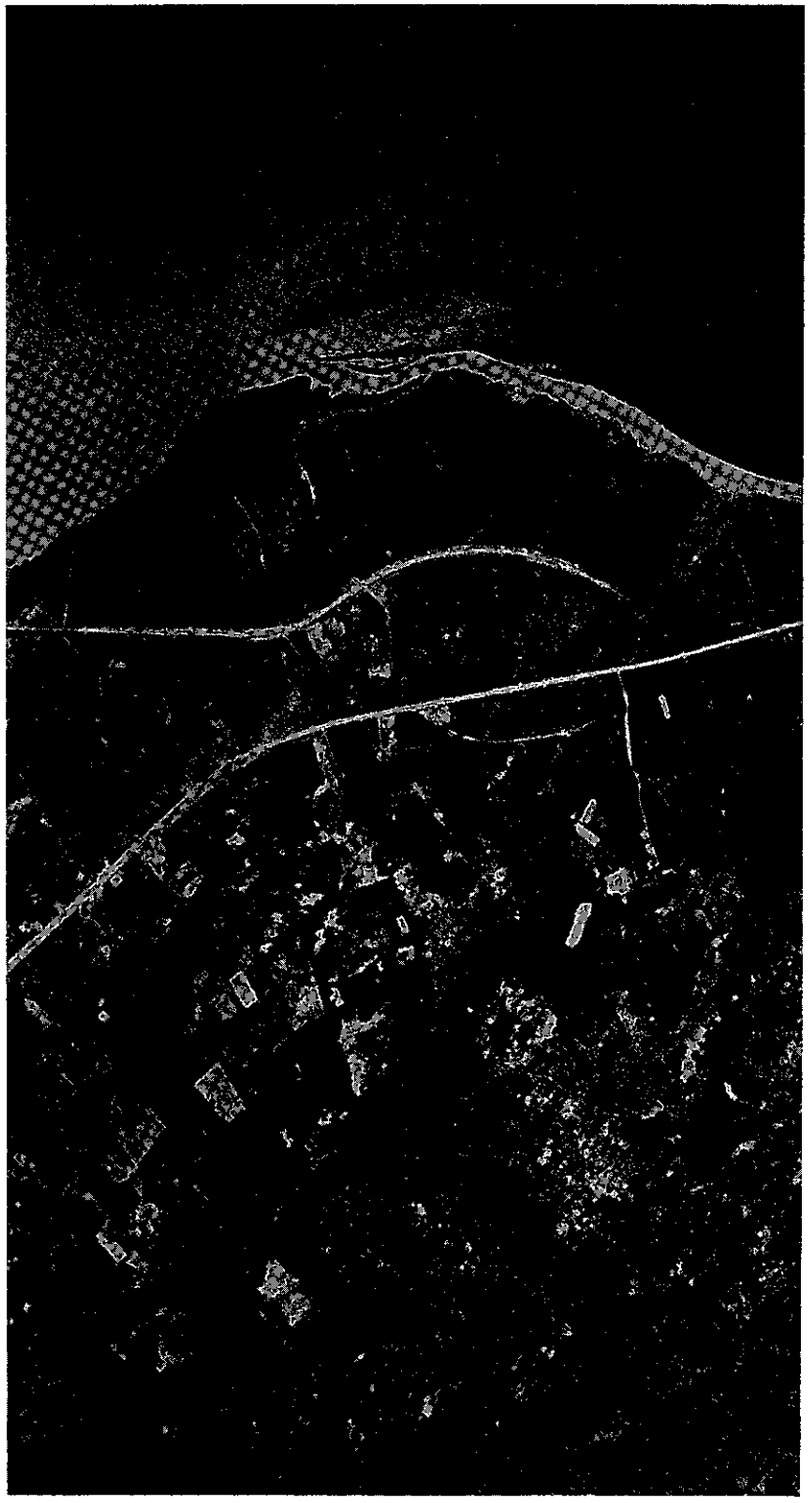
Counties Pictou, Antigonish, Guysborough

1965

PUBLISHED BY THE
DEPARTMENT OF LANDS & FORESTS
OF NOVA SCOTIA

D. Haliburton, Minister
Creighton, Deputy Minister

nova scotia forest inventory



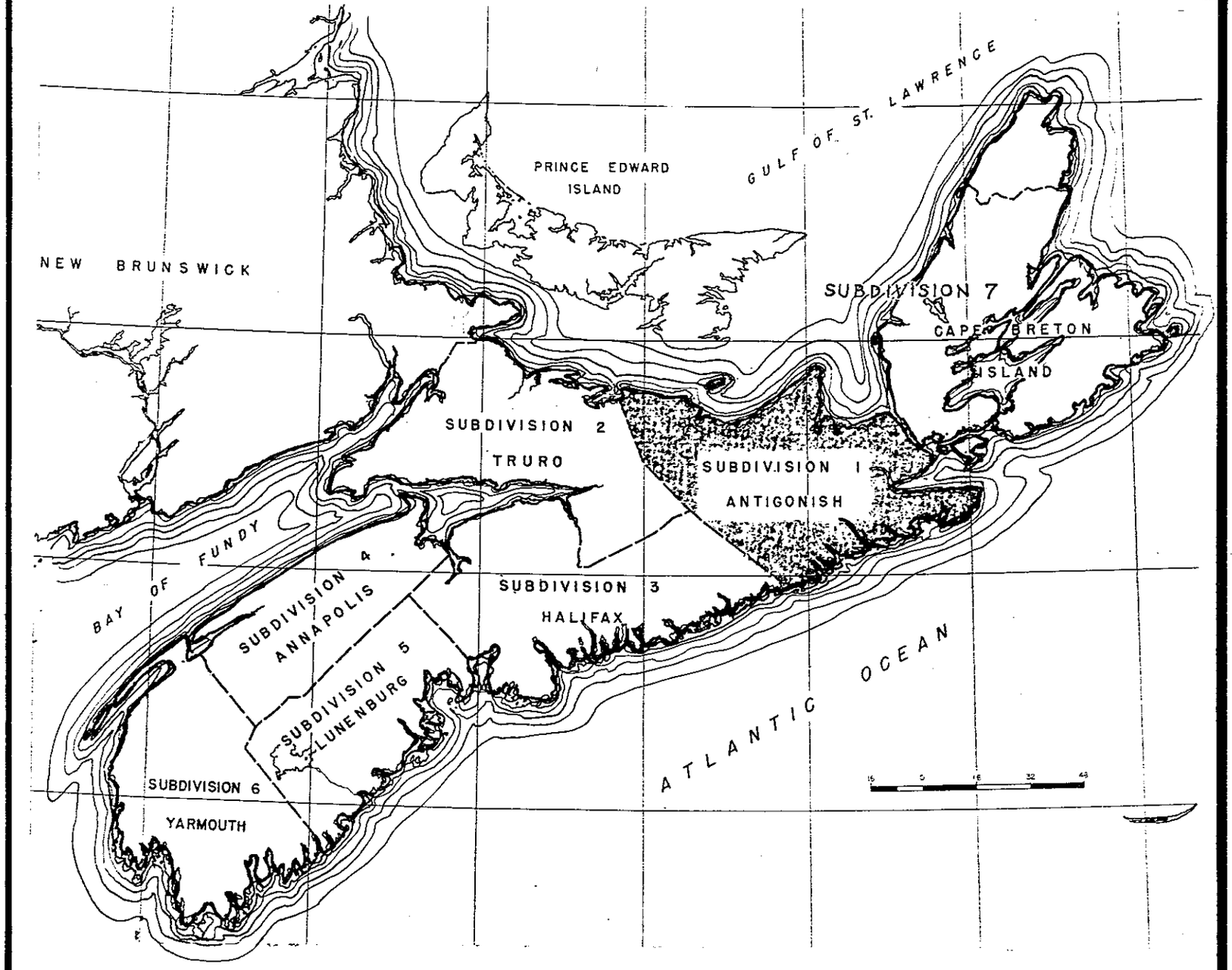
COMPILED BY INVENTORY SECTION OF THE FORESTRY DIVISION
EDITED AND PREPARED BY EXTENSION DIVISION

DEPARTMENT OF LANDS AND FORESTS
PROVINCE OF NOVA SCOTIA

Subdivision I : 1965

1M/68

Provincial Forest Inventory Subdivisions



CONTENTS

INDEX TO TABLES AND CHARTS IN SECTION IV

CHARTS

TABLES

I Introduction

This is one in a series of seven reports on the current status of the forest resource of Nova Scotia. It presents data for a single subdivision of the provincial forest inventory which commenced in 1964-65. The seven inventory subdivisions, with their counties and municipalities, are shown at right.

These are the same subdivisions used in the 1953-1958 provincial forest inventory (Frontispiece). Each contains roughly one-seventh of the total area of the province. To complete the photography, fieldwork, mapping and compilations for one of these units takes approximately two years. But because all four work phases are proceeding simultaneously on several units, each subdivision takes the equivalent of one year to complete. Thus the inventory is to operate on a seven-year cycle of remeasurement, producing on the average one subdivision report a year, and a new report on each subdivision every seven years.

This regularity is one advantage of the continuing forest inventory system over methods used so far in Nova Scotia. Another advantage is that fresh data on growth and yield are obtainable at any time from a system of permanent plots being concurrently established throughout the province.

Subdivision	Counties	Municipalities
I Antigonish	1. Pictou	1. Pictou
	2. Antigonish	2. Antigonish
	3. Guysborough	3. St. Mary's
		4. Guysborough
II Truro	1. Cumberland	1. Cumberland
	2. Colchester	2. Colchester
III Halifax	1. Hants	1. West Hants
		2. East Hants
	2. Halifax	3. Halifax
IV Annapolis	1. Annapolis	1. Annapolis
	2. Kings	2. Kings
V Lunenburg	1. Queens	1. Queens
	2. Lunenburg	2. Lunenburg
		3. Chester
VI Yarmouth	1. Digby	1. Clare
		2. Digby
	2. Yarmouth	3. Yarmouth
		4. Argyle
	3. Shelburne	5. Barrington
		6. Shelburne
VII Cape Breton Island	1. Inverness	1. Inverness
	2. Victoria	2. Victoria
	3. Richmond	3. Richmond
	4. Cape Breton	4. Cape Breton

The initial inventory cycle is due for completion in 1972 with the publication of the report on Subdivision VII, Cape Breton Island. By this time remeasurement of the early subdivisions is to have begun again for the second cycle.

II Background

TWO EARLY SURVEYS

The current series of reports constitutes the fourth description of Nova Scotia's forest resource published since 1800.

The first such report was prepared by Titus Smith as a result of his walking survey of 1801-02, which was sponsored by Lieutenant-Governor Wentworth of Nova Scotia.

The next, entitled Forest Conditions of Nova Scotia, was published in 1912. It was prepared by Dr. B. E. Fernow of the University of Toronto Forestry Faculty. He was hired to survey the resource after the lumbermen of western Nova Scotia pressed the government for such a step.

Dr. Fernow's survey was the first to collect the type of information which we might today expect from a forest inventory. His report included data on species distribution, standing volumes, growth rates and wood consumption. Accompanying these data were small-scale forest type maps. There was also an assessment of the regrowth on burned areas, and recommendations for action to preserve and improve the resource.

All this information was collected from people who had an intimate association with the woods: lumbermen, woodlot owners, farmers, trappers and others. Considering how few of his conclusions were based on actual measurement, Fernow's report is truly a remarkable document.

THE 1958 INVENTORY

Some forty years passed before the province again took stock of its forests. With the passing of the Canada Forestry Act in 1952 by the Federal Government, money was provided on a 50:50 basis between the Federal and Provincial Governments to carry out another forest inventory. This survey was carried out between 1953 and 1957, and the results of the survey appeared in a book entitled The Forest Resources of Nova Scotia, published by the Department of Lands and Forests in 1958. It provided the first complete set of large-scale photographs and forest type maps. It also produced the most comprehensive information yet obtained on species, acreages and volumes.

THE 1965 INVENTORY

Although the present provincial inventory is the fourth assessment in Nova Scotia's history, it is the first to be carried out on a continuing basis. One of the recommendations arising out of the 1958 inventory was that such a continuing system be instituted to replace the intermittent type of survey. With the formation of the Voluntary Economic Planning Program a few years later, the Forestry Sector revived this recommendation and urged its prompt adoption.

Accordingly, in the winter of 1964-65 the Department of Lands and Forests convened a meeting of all foresters in Nova Scotia. Also invited were specialists from consulting firms, the Federal Department of Forestry, and the University of Maine. The proposal of a continuing forest inventory program for Nova Scotia was set before them, and won approval. Out of this meeting and previous discussions at various levels in the Department came a decision to adopt the system. A seven-year cycle of remeasurement was chosen.

Large-scale forest inventories are usually done by outside forestry consultants working under contract. The present survey is unusual in that, except for help from a forestry consultant in drawing up the original specifications, it is being carried out by Department personnel.

This arrangement has several advantages. One is that it allows Department specialists, who have easier access to the forests than would an outside agency, to check their work more frequently. Another advantage is that it provides employment for Nova Scotia rangers and other personnel. Most important, it produces a core of trained local technicians who are familiar with our forests, and who will become more so with time and experience. The Department can draw on this accumulated knowledge whenever necessary.

REASONS FOR A FOREST INVENTORY

In any well-run business, an annual stock-taking is necessary to determine the profit position. The forest resource must also be assessed from time to time. However, unlike the business inventory, which is a simple count of merchandise, the forest inventory must measure a living, changing stock. This means that the information soon goes out of date. Taking inventory of the forest resource is further complicated by the need to consider varying levels of utilization in the wood market. For instance, a chemical pulpmill may use low-grade pulpwood of many species, while a veneer mill may use only high-quality logs of yellow birch and hard maple. Yet the data must be collected and compiled in such a way that both users can extract useful information.

The forest type maps and aerial photographs being produced from this inventory should benefit both public and private land managers in their efforts. They should prove useful in locating areas that require reforestation, harvest cutting, and forms of silviculture. They should also assist provincial fire fighters, owners wishing to locate roads, cruisers assessing smaller ownerships, and other resource managers.

Another unusual feature of the present inventory is that forest type maps for private forest lands are being produced. This is not done in most provincial inventories, except on a shared-cost basis with the owners. Ordinarily the landowner can obtain forest data, but no forest type maps. However, Nova Scotia's unusually high ratio of private woodland to Crown woodland (about 3:1) makes it necessary to produce such maps for both land classes.

Because this report is basically a summary, it omits much detailed information such as stock tables, volume estimates by forest types, and volumes for temporary sample plots. These and other data are however available at the Truro office of the Department of Lands

and Forests.

LIMITS OF INVENTORY DATA

It should be pointed out that the inventory was designed to give volumes on a municipality basis. Therefore, using the volume data for areas smaller than the 300,000 acres of a municipality falls outside the accuracy limits of the inventory, and may not give reliable volume estimates.

Applying the volume data to a smaller area would require supplementary field work on the part of the owner. The smaller the ownership, the more supplementary work would have to be done.

III Method

GENERAL

As mentioned before, the present inventory is using the same seven subdivisions employed in the 1958 provincial forest inventory. One subdivision consists of two to four counties. This size was chosen as a reasonable working unit on the basis of the work entailed in training, organizing and supervising the necessary staff.

For each subdivision, data will be presented by the subdivision and the municipalities. Information will also be given by four ownership classes: Federal Crown, Provincial Crown, private land of 1,000 acres or more, and private land under 1,000 acres.

To carry out such an inventory, it has been necessary to rely on the staff and facilities of various agencies. These included the Department's Divisions of Forestry, Surveys and Mapping, and Extension; as well as the Province's Department of Mines, the Queen's Printer, and the Division of Administrative Services. The early stages required the use of computer facilities in Halifax, Toronto, Montreal and the University of Maine. This co-operative involvement is illustrated below:

Aerial photography	Done under contract to private firms
Specifications	Survey Division and Inventory Section
Checking photos	Survey Division and Inventory Section
Photo interpretation	Inventory Section
Establishment of Plots	Inventory Section
Mapping	Survey Division Inventory Section Department of Mines Private firm
Programming, data processing and compilations	Division of Administrative Services, and private firms (initially)
Report	Inventory Section Extension Division Queen's Printer

The inventory program calls for the random location of 300 to 600 temporary line plots for one subdivision each year. These plots are established at the rate of eight per map sheet, each sheet covering 7½ minutes of latitude by 7½ minutes of longitude. The plots run at right angles to the local watersheds, and are one mile long by 16.5 feet wide. The number required may be revised as the result of progressive determinations of

standard errors, provided this will improve accuracy without exceeding cost limits.

The desired accuracy calls for volume estimates on a municipality which come within ten per cent at a probability level of nine out of ten times. That is, if a particular number of sample plots was established ten times, the volume estimates would be within plus or minus ten per cent nine of the ten times; the tenth could range outside plus or minus 10 per cent.

SCHEDULE

The inventory can be divided into seven phases. In the general sequence in which they are performed, these are as listed at right:

Aerial photography
Interpretation of photographs
Establishment of temporary sample plots
Establishment of permanent sample plots
Mapping
Processing of data
Report

Because of the inherent complexity of an inventory program and the need to rely on various agencies and their facilities, a work schedule is of prime importance in meeting completion dates.

The schedule of completion dates developed for the present inventory is as shown in the table below.

Subdivision	Photography	Photo-Interpretation	Fieldwork	Compilations and Report	Mapping
Antigonish	1964	1965	1965	1967	1967
Lunenburg	1965	1966	1966	1968	1968
Halifax	1966	1967	1967	1968	1968
Truro	1967	1968	1968	1969	1969
Annapolis	1968	1969	1969	1970	1970
Yarmouth	1969	1970	1970	1971	1971
Cape Breton Island	1970	1971	1971	1972	1972

AERIAL PHOTOGRAPHY

Specifications for photography are generally based on the latest recommendations of the Federal Inter-Departmental Committee on Air Surveys. The scale is 1:15,840 (1 inch = 20 chains), with a permissible variation of plus or minus five per cent. Tilt is not to exceed 2.5 degrees; crab is not to exceed 3 degrees.

The flight lines run as nearly east and west as possible, with a maximum allowable departure of seven per cent of picture width. Forward overlap averages 60 per cent plus or minus 4 per cent; lateral overlap 20 per cent plus or minus 10 per cent. In the event of re-photography, the unsatisfactory lines or portions thereof shall be reflown along the original lines of flight.

The specifications call for Cronor type 136 film on topographic safety base, or its equivalent or superior. This is black-and-white panchromatic film. Infrared (heat-sensitive) film was tried during the summer of 1964 in the Antigonish Subdivision, but the results were disappointing.

Kodak has developed a new type of printing paper, Kodak No.1902, which is required in the specifications. Prints are supplied on this paper on request. It has a plastic texture and resists curling and moisture.

Photography of Subdivision I was done during spring and summer of 1964. The leaf-flush period in the spring is preferred, but in the event of a shortage of clear flying weather (as in 1966) the fall color-change period is second choice.

Negatives of the Antigonish Subdivision are numbered by the contracting firm according to the system used by the National Air Photo Library. At the start of each film roll the following information is given: film roll number, line number, photo number, flight line direction, camera type and lens, day, month, year, altitude, and job number. Successive negatives on a film roll show only roll number and photo number except where a new flight line begins. Then the detailed annotations are made, omitting date and camera information. Each photograph was also marked on the back by Department personnel for filing purposes.

For the 1965 and subsequent photography the Department requested additional annotations on the negatives to show: the subdivision, amended flight line number, photo number, and day, month and year of the photography. This annotation always appears on the west edge of each negative and photograph. The flight lines are numbered consecutively from south to north commencing with line number one. The negatives and photographs are numbered consecutively from west to east along the flight line commencing with negative number one. These changes speed the orienting and filing of pictures.

As the photos are received they are inspected to see whether they meet the specifications.

Flight reports are kept on file in Halifax and Truro. Additional information can be supplied on request. Index maps are available from the Surveys and Mapping Division in Halifax.

The Department of Lands and Forests retains the rights and title to the negatives and other working materials. These negatives are stored at the National Air Photo Library in Ottawa, from which contact prints, enlargements, reductions and mosaics are available for a fee.

PHOTO-INTERPRETATION

Since only the central portion of each photograph is effective, the first step in interpretation is to mark off the net area to be classified. This is done by drawing the four midlines of the north, south, east, and west overlaps. The effective area so defined equals one-third to one-half the photo area.

Each prospective photo-interpreter must pass a Zeiss test for stereoscopic vision before being assigned to this project. With the aid of an Abrams height finder, a parallax wedge, an air-photo circular slide rule, and crown closure scales, the photo-interpreter proceeds to classify forest types.

Until the interpreter is proficient in this work, he is encouraged to check classifications frequently against actual ground types.

During the first winter, photo-interpretation was checked by the consultant. It is now being supervised by an experienced department specialist.

To achieve consistent interpretation in the Antigonish Subdivision, 20 to 30 pairs of photographs were selected, ground-checked and typed to illustrate typical forest types in the Subdivision. These stereograms, which were prepared by highly skilled photo-interpreters, acted as standards for classifying the variations encountered in species composition, height, density, and site.

Further use of stereograms is therefore indicated. In time these can form a valuable reference library for succeeding projects.

On completion of field work, the typing is revised with new knowledge obtained from the plots themselves and from information recorded by the cruiser on his way to and from the plots.

Photo interpretation is not a science but a highly skilled art. The photo interpreter must have a knowledge of forest stands and their composition, and be able to relate this knowledge to photographic images in identifying forest stands. Pre-typing the photos, running field checks through the area, and then correcting from the field checks is the best way to become proficient in the work. This requires much study of the types under stereoscope in the field and in the office.

CLASSIFYING FOREST LAND

There are differences between classifying forest land on the photograph and on the ground. The ground classification is in two instances more detailed. Thus although only three crown closure classes are used in typing photographs, five are recognized in typing temporary and permanent sample plots. Similarly, the photo-interpreter uses three site classes, but the cruiser six. On the other hand, height classes and cover type classes are identical in both systems. Age classes apply only to field typing.

To illustrate these similarities and differences, all the definitions used by photo-interpreters and cruisers in classifying forest lands are compared below.

Cover Type Classes

Photograph			Field
Softwood	(S) --	Less than 25% hardwood by volume	Same
Mixedwood	(M) --	26% to 74% hardwood by volume	Same
Hardwood	(H) --	More than 75% hardwood by volume	Same

These cover types are separated on the basis of relative volume indications, except in stands of regeneration age, where relative stocking is used. In young stands a combination of relative volume and stocking is used.

Crown Closure Classes

Photograph	Field
(Crown Closure Classes)	(Stand Density Classes)
1. Up to 40% crown closure	1. Up to 40% density
2. 41% to 60% crown closure	2. 41% to 60% density 3. 61% to 80% density
3. 61% to 100% crown closure	4. 81% to 100% density 5. Overstocked

Here the photo classes are separated using crown closure aids. The field classes employ the Nova Scotia Site Quality Normal Yield Tables for Softwoods (normal density concept), which make use of basal area. Hence the two extra field classes.

Height Classes

Photograph	Field
A. Up to 15 feet	Same
B. 16 feet to 30 feet	Same
C. 31 feet to 50 feet	Same
D. 51 feet and over	Same
E. Uneven heights, non-classifiable	Same

Age Classes

Photograph	Field
Not classified	A. Up to 20 years B. 21 to 40 years C. 41 to 60 years D. 61 to 80 years E. 81 to 100 years F. Over 100 years UA. Unevenaged

Age classes are not classified on the photographs because it is very difficult to do so accurately. An attempt to do this on the Antigonish Subdivision gave interpretations which were only about 60 per cent correct. Consequently age classes do not appear on the maps, and age classification has been discontinued from the photo-interpretation programme.

Site Classes

Photograph	Field
III Good or above average	I II III
IV Average	Same
V Poor or below average	V VI

Site quality is determined in the field on the basis of the height-age relationships of dominant and co-dominant trees. That is, the heights of the taller trees at given ages provide a measure of the tree-growing capacity of the site. Height-age curves constructed from the Nova Scotia Site Quality Normal Yield Tables for Softwoods are used for this.

Recent Burn

Photograph	Field
A single class for burns occurring within last 10 years; denoted by symbol (++)	Same

Recent Clearcut

Photograph	Field
A single class for clearcuts occurring within last 10 years; denoted by symbol CC	Same

These are the categories used in classifying forest land. Map symbols denoting these categories or classes are used to distinguish the types so classified. For example, the multiple symbol S2C distinguishes a softwood type containing less than 25 per cent hardwood by volume, having a crown closure of from 41 to 60 per cent with heights of 31 to 50 feet, and growing on an average site of IV. Because of the prevalence of site class IV, stands in this category are not so indicated in the map symbols. All other site classes are designated. (E.g. a similar stand on a site class II would be identified by the symbol S2CIII).

The minimum size of forest type in this classification is three acres; any type smaller than this is merged with an adjacent type.

CLASSIFYING NON-FOREST LAND

Non-forest land is that which, because of present usage, past burns, drainage conditions, exposure, or lack of soil, are not likely to become productive forest land. It is classified the same on photographs and in the field. The classification and map symbols are as follows:

Bog and Open Muskeg	
Treed Bog or Muskeg	
Alders and Brush	(c)
Rock Barren	
Agricultural and Marsh Land	A

Urban	U
Roads and Railroads	
Transmission Lines	
Water Flowage	F
Tidal Flats	T F

FIELD WORK

Temporary Sample Plots

For better statistical analysis of volume data, the plots were located on a random basis. As the controlling block for this procedure, map sheets from the Crown Land Forestry Series ($7\frac{1}{2}$ minutes latitude by $7\frac{1}{2}$ minutes longitude: about 32,000 acres) were used.

The maximum number of plots per full map sheet at first was set at 10. The ideal system would be to employ as many plots as would be required to provide accurate estimates for every ownership on each map sheet. But, because of limitations imposed by economy, time and weather, this is impractical in a province-wide inventory. Therefore the number of temporary sample plots per map sheet was reduced to eight.

Before the start of fieldwork each spring, the temporary plots must be located and plotted. To fix the starting points of plots, a transparent dot grid having numbered coordinates is used in conjunction with a table of random numbers. For each map sheet, numbers are selected from the table and translated into latitude and longitude references. The locations so defined are then examined for their suitability as starting points. To be suitable, a location must lie within the boundary of that map and permit the running of a one-mile strip in some direction without encountering salt water or leaving the subdivision. Locations not satisfying those requirements are eliminated. The first eight suitable points on any given sheet determine the starting points of the eight sample plots for that map.

Once these points are settled, the course of each plot is determined. The guide here is that the plot strips should wherever possible cross the main trend of drainage. This minimizes bias. Magnetic bearings are used. Proceeding clockwise, the cardinal directions are considered first. If none of the four yields a suitable line, 45-degree offsets are next investigated. This procedure is repeated around the azimuth circle until a satisfactory course is found.

When a course for the eight points on each map sheet has been selected, the sample plots are located on a base map and on the aerial photographs. Also located on these maps and photos are the boundaries of land ownerships in the area. These are plotted as accurately as possible from the latest known information.

The dimensions of each line plot are one mile long by 16.5 feet wide (two acres). The forest types and other land classification traversed by this strip are recorded to the nearest one-tenth chain. A separate sheet is used for each forest and non-forest class encountered.

Along each strip all living trees in the four-inch DBH class and greater are calipered for diameter, and recorded by species and diameter class on tally sheets. At five points along each strip (0, 20, 40, 60, 80 chains) detailed measurements are made on three selected sample trees.

Selecting these trees is done on the basis of the three nearest trees of commercial species and merchantable size. The following data are recorded for each: species, DBH, crown class, tree condition class, total height, merchantable height, actual age, projected age, top merchantable diameter outside bark, and stump height. Where no suitable trees occur within the strip, outside samples may be measured.

Diameters are measured outside bark with a diameter tape, and recorded to the nearest tenth-inch class.

Crown class is decided on the basis of four classes defined in Forest Terminology of the Society of American Foresters: dominant, codominant, intermediate, and suppressed. For a detailed description of each class, see section IV.

Tree condition classes are assessed according to whether trees are normal, or show excessive crook, excessive rot, and seams or scars.

Heights are measured with a cloth tape and Spiegel Relaskop and recorded to the nearest one-foot class. Merchantable height is determined on the basis of form, branching, visible defects, or a four-inch top diameter outside bark.

Tree ages are found by means of increment borings made at breast height (4.5 feet above ground level). Actual age is estimated by adding 10 years to this age. Where initial suppression results in an abnormally high age count, a correction is made by projecting for rings of normal (free-growing) width in place of the narrow rings to arrive at a normal age.

The sample tree data are used to indicate the proper volume tables and formulae to use in calculating tree and plot volumes.

Four ownership classes are recorded, as follows:

Crown land (provincial)

Ownerships of 1,000 acres and more

Ownerships under 1,000 acres

Military reservations and parks (Federal)

The cruiser, party chief and forester are responsible for editing the sheets to ensure that they are properly completed and that fieldwork is satisfactory.

PERMANENT SAMPLE PLOTS

An important part of the inventory program is the establishment of approximately 1,750 permanent sample plots between 1965 and 1972, at 250 new plots a year. Unlike the temporary plots, which are employed to give volume estimates at a given point in time and then abandoned, these permanent plots are designed for repeated measurement on a province-wide basis.

The acreages and volumes given in this report are obtained from temporary sample plots. These figures represent the net result, up to the time of measurement, of all the factors which added or subtracted wood during the life of the stands sampled. On the credit side, growth added volume. On the debit side, the factors of cutting, disease, insects, animals, storms and overcrowding subtracted volume. What the temporary plots reveal is the net result of this interplay to a given date. They give a static picture.

But because of the continuous interaction of growth and drain, this picture goes rapidly out of date. Therefore information on growth and drain and yield must be obtained on a continuing basis. In a sense the temporary plots do this--every seven years. Their data, however, comes each time from different trees and different areas, due to the random nature of the sampling. So a separate but complementary system is needed.

Permanent sample plots fill this need. They are established at random, accurately located on maps, and can be recognized in the field by blue paint markings and a metal centre post.

On each plot all living trees 3.6 inches and larger at breast height are marked at the 4.5-foot level and numbered with blue paint. These identification marks permit later re-measurements to be made on the same trees and ensure that diameter will be taped at the same level every time. A truer comparison of growth can thus be made. As an extra precaution, a metal number tag is nailed to the base of each tree.

Once the trees have been numbered and marked, detailed measurements begin. The data collected are essentially the same as those collected for the sample trees on temporary plots. However, age is not ascertained for each tree, but only for enough trees to show average age--or the range of ages, as the case may be.

Trees in the one-inch to three-inch diameter classes are not numbered, but are tallied to the nearest one-inch class. This tally provides valuable information on patterns of mortality and ingrowth in the smaller diameter classes.

Each permanent sample plot is to be re-measured five years after its establishment, and every five years thereafter. Thus a cyclic pattern of re-measurement is to apply. No general assessment of the growth and yield information so obtained is contemplated until the first cycle of re-measurement has been completed, about 1972. However, the plot information will be compiled, and volume summaries will be available at the Inventory Section office in Truro.

The permanent sample plots are being established randomly on all ownerships. All landowners are urged to treat these plots as they would any of their other forest holdings. That is, if plans call for logging a stand in which a plot is located, the plot area should be cut as well. If this impartiality is not observed, the estimates will be biased.

MAPPING

The objective is to produce forest type maps of the whole province for distribution on request. These will be available in three scales: one inch to twenty chains, one inch to forty chains and one inch to eighty chains. This requires 500 to 600 maps in each case, the smaller scales being on smaller sheets for easier handling.

The making of these maps entails many steps. These reduce to three main ones: preparing a special base map negative of one inch to twenty chains from the latest topographic and tenure information, transferring to this negative the forest types obtained from aerial photographs, and eventually producing a positive print showing all this information plus a legend.

At this point, negatives for the two smaller scales are made by photographic reduction from the original. These yield two scaled-down positives of the original positive. The three positives are then used to produce white prints in the three scales.

Careful editing is essential at each stage of mapping to ensure that all information is accurate, that type lines match between adjacent sheets, and that presentation is consistent throughout.

PROCESSING AND COMPILING DATA

Compiling acreages, volumes, volume tables and reports used to be one of the slowest parts of an inventory program. It was more time-consuming than the fieldwork. But in recent years a reversal has been taking place. Mechanical tabulation is steadily shortening the office work. Computers are being used to make necessary compilations, to print out tables, and to store information. These steps are now being done at fantastic speeds compared to previous standards. Data, recorded and stored on tapes, can be instantly recalled. This technique replaces the slower method of having the machine scan every card in order to locate data of current interest.

PROGRAMMING THE COMPUTER

To use these techniques, every detail of the reporting and compiling process must be programmed into "computer language". This requires that the programmer be completely informed.

The key punch operator can then punch onto cards the tally sheet information obtained from the temporary plots. One card receives the tally information, another the sample tree data, and a third miscellaneous information. All three are identified by the subdivision, county, municipality, ownership, plot number, forest and land classification, and so on. Editing follows, and any incorrectly recorded data is queried and rejected by the computer. Corrections are made where necessary. The cards are then ready for the extraction of desired information. Following a set of instructions, the computer proceeds to run the programs, as follows:

1. The sample tree programme is used to provide summaries of individual tree data, which in turn provide the basic information for preparing local volume tables. The print-out of these data is by species groups. It gives the number of trees in each diameter class (DBH), as well as average values for DBH, total height, merchantable height, stump height, merchantable top diameter

outside bark, and for actual and projected ages.

These data are presented for the following species groups:

1. White spruce
2. Red spruce, black spruce, larch, Jack pine
3. Balsam fir
4. Hemlock and cedar
5. White pine, red pine, scotch pine
6. Sugar maple, red maple, white birch, yellow birch, grey birch, elm, white ash, black ash, cherry, beech, others
7. Aspen, balsam poplar.

2. From the sample plot data, the acreages of the various forested and non-forested categories are next obtained. The procedure here is to total the sampled area for each land class, find the proportion which each land class occupies of the total area sampled, and apply this proportion at the municipality level by using the land and water acreages given for each municipality in the 1955 inventory.

For example, if it were found in a certain municipality that the total sample area for roads was 200 acres out of a total sample of 1,000 acres for all land classes, then the area occupied by roads would be calculated as being 200/1000 times the total area of that municipality as given in the 1955 inventory.

3. Volume summaries are obtained.

Published data, consisting of gross and gross merchantable cubic foot volumes are listed in section VIII.

Non-published data, as outlined below, are available from the Inventory Section, Truro, Nova Scotia.

(a) Volume summaries are listed by line number for all forest (field) types.

(b) Volume summaries are listed by line number for all like forest (photo) types.

(c) Volume summaries are listed by municipality for all like forest (photo) types.

(d) Modified stock tables are produced for each forest (photo) type in a municipality.

(e) Tabulations are made of the results of the statistical analysis for each forest (photo) type and county.

AREA AND VOLUME ESTIMATES

Two groups of tables are compiled for the subdivision and each municipality therein: (a) area summaries, and (b) volume estimates in cubic feet. These tables appear in section VIII.

IV Summary of Findings

This section presents the main findings of the present inventory in Subdivision I, and compares them with those of the 1955 forest inventory in the same subdivision, on the basis of area and volume.

FOREST CONDITIONS IN THE SUBDIVISION: 1965

SITE

Site evaluation is a complex problem involving species, drainage, fertility, exposure, climate, and so on. Although six classes are recognized in the inventory, on the photographs these were reduced to three groups: Site Quality IV (the most common site), those better than Site Quality IV (i.e; I, II, III), and those poorer than Site Quality IV, (i.e; V, VI). It should be noted that in selecting sample trees for site evaluation no attempt is made to use the superior trees; the basis is rather the three nearest dominant or codominant trees at each sampling point.

Over 80 per cent of the forest area of the subdivision is in Site Quality IV. The poorer site qualities comprise 12.7 per cent of the forest area, and the better site qualities 6.6 per cent.

DENSITY

Stand density is a measure of the degree to which an area is occupied by trees. In field classification the reference point is "normal density" as given in the Nova Scotia Site Quality Normal Yield Tables for Softwoods. These tables employ the basal area concept, which refers to the aggregrate area of wood surface in square feet per acre at breast height of all trees in the two-inch class (in this case) and larger.

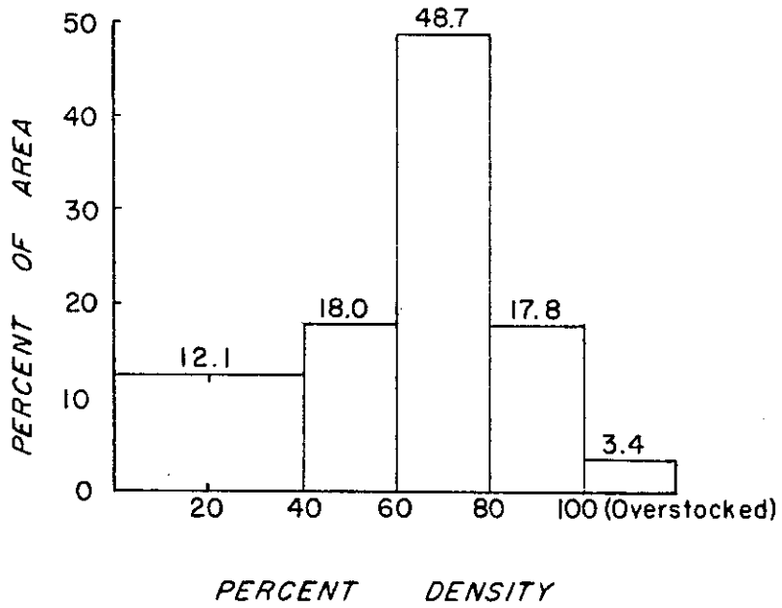
Normal density in a stand of given age-class and site quality is defined in the tables as that basal area which obtains when the site is fully occupied by trees. For convenience, basal area is usually measured by counting trees with an angle gauge designed to relate DBH and per-acre density. Density is expressed as a percentage above (overstocked) or below (understocked) the normal, which is designated as 100 per cent.

Since basal area cannot be determined from the photographs, another measure must be used to relate field classifications of density to photo classifications. Crown closure serves this purpose. (The relationship between Crown Closure Classes and Stand Density Classes in this inventory is shown on page eight.)

Using crown closure scales, the photo-interpreter determines the proportion of the type area covered by a downward projection of the crowns, and expresses this as a percentage of full coverage. The stand can then be assigned to one of three Crown Closure Classes.

Chart I on page 16 shows the pattern of stand density in the subdivision. It should be noted that because of a long history of man-made and natural disturbances, our wild stands are very clumpy in nature. A density classification can describe such stands in approximate terms only.

CHART I: PER CENT AREA BY DENSITY CLASSES, ANTIGONISH SUBDIVISION, 1965



AGE

There are six 20-year age classes and one unevenaged class. To prevent the latter from being used as a catch-all for doubtful cases, cruisers are asked to use it only as a last resort. That is, wherever possible every stand must be assigned to a definite age class. This helps ensure that stands classified as unevenaged are truly so.

The distribution of age classes by area and gross merchantable volume in the subdivision are shown in the Chart II below, and Chart III on page 17.

CHART II: PER CENT OF AREA BY AGE CLASSES, ANTIGONISH SUBDIVISION, 1965

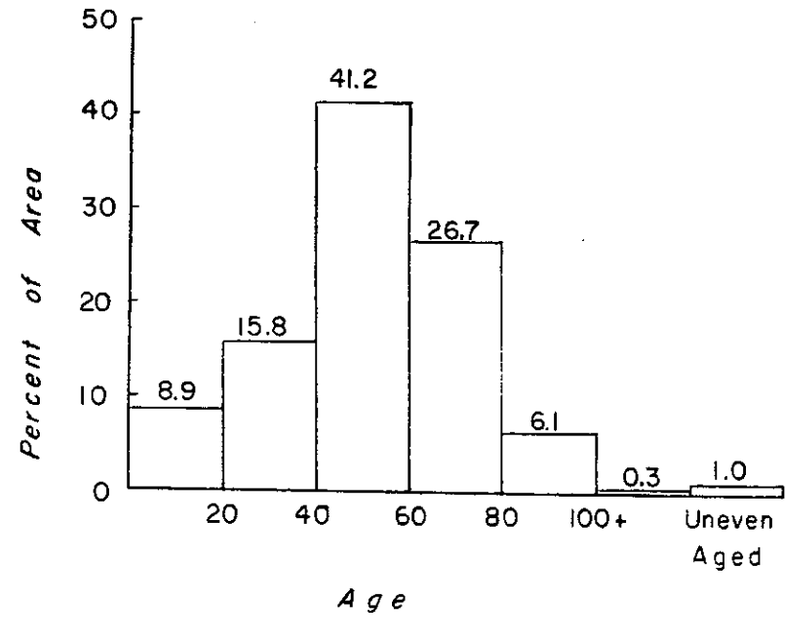
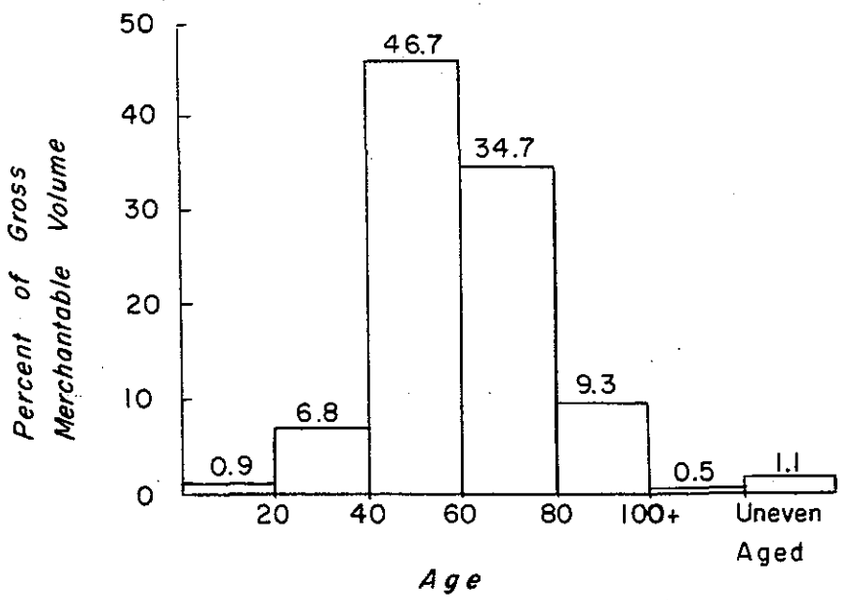


CHART III: PER CENT OF GROSS MERCHANTABLE VOLUME BY AGE CLASSES, ANTIGONISH SUBDIVISION, 1965



OWNERSHIP

Data for the present inventory were compiled using ownerships as one of the major groupings. Ownerships were divided into four classes, three of which occur here: small private holdings (less than 1,000 acres), large private holdings (1,000 acres and larger), and Crown (Provincial) holdings. These ownerships were plotted in the spring of 1965 from the best available information. The liklihood of tenure changes since then should be borne in mind.

The relationships between ownerships, area, age class, and gross merchantable volume (cu.ft.) in the subdivision are shown in Charts IV, V and VI.

CHART IV: PER CENT OF AREA AND GROSS MERCHANTABLE VOLUME BY OWNERSHIP CLASSES, ANTIGONISH SUBDIVISION, 1965

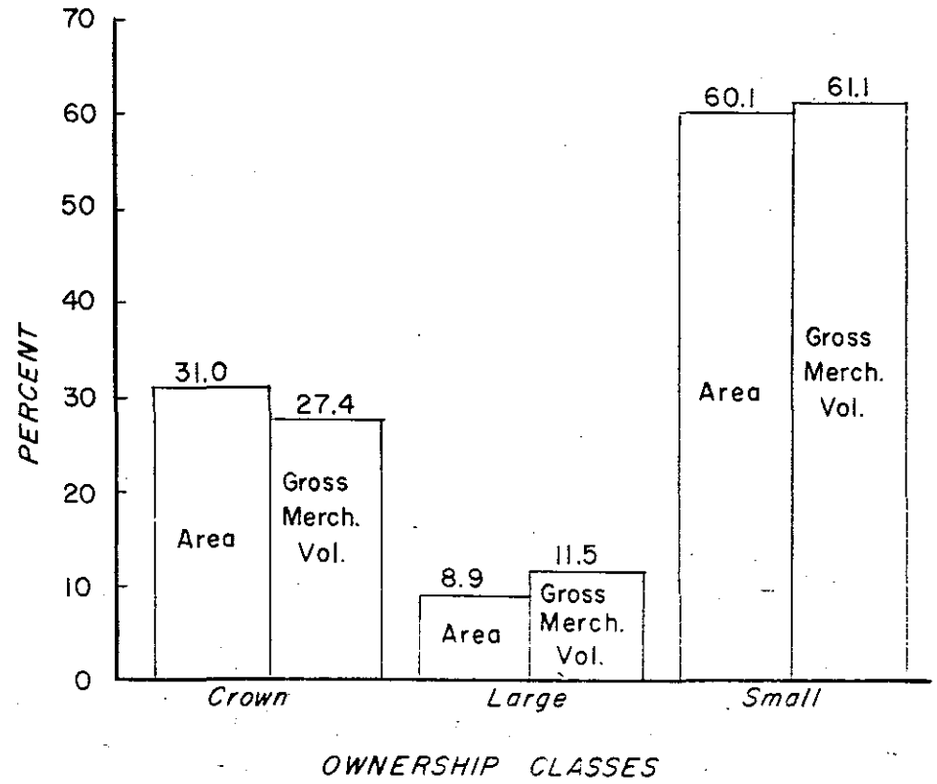


CHART V: PER CENT OF FORESTED AREA BY AGE CLASS AND OWNERSHIP CLASS, ANTIGONISH SUBDIVISION, 1965

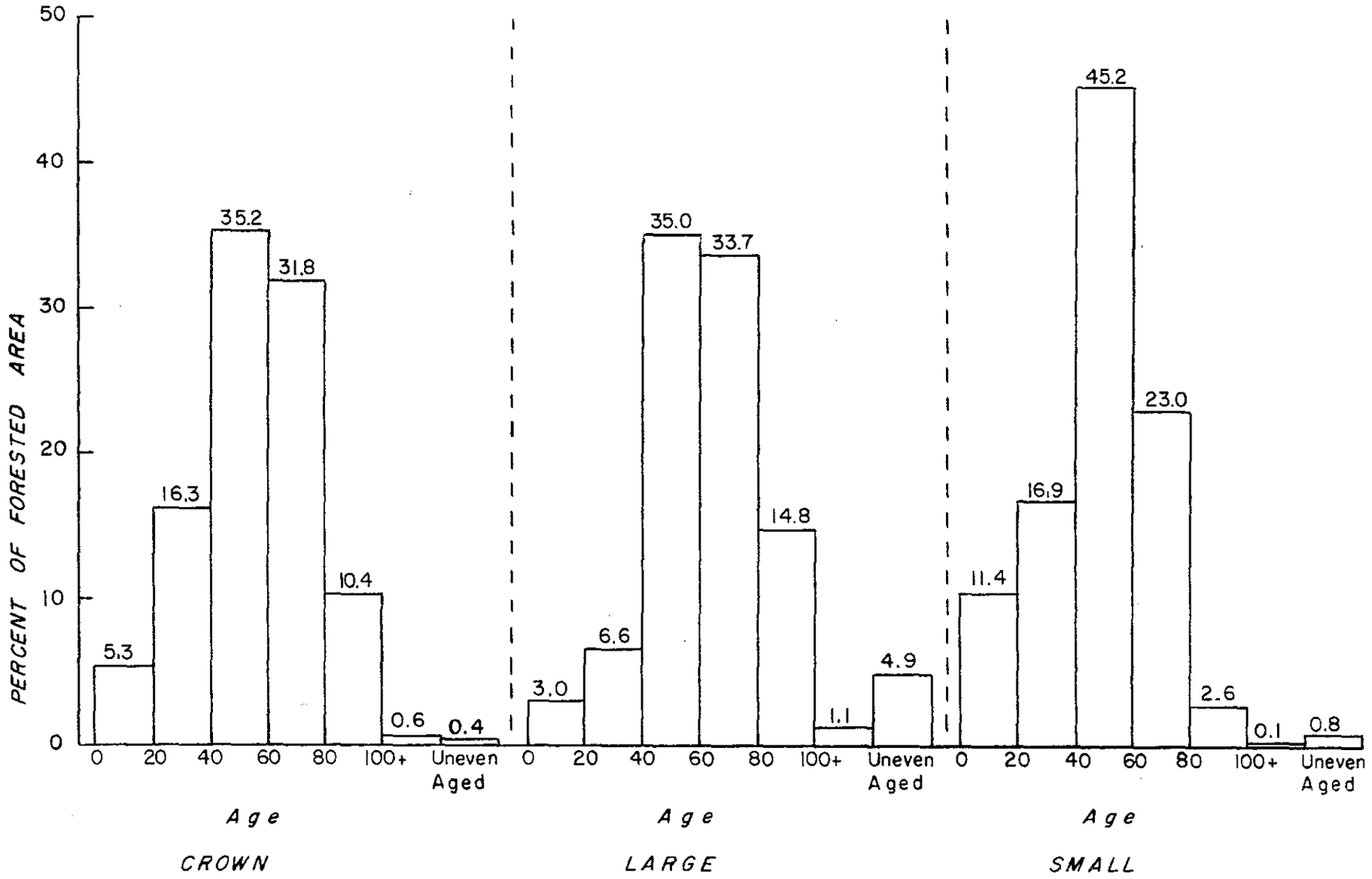
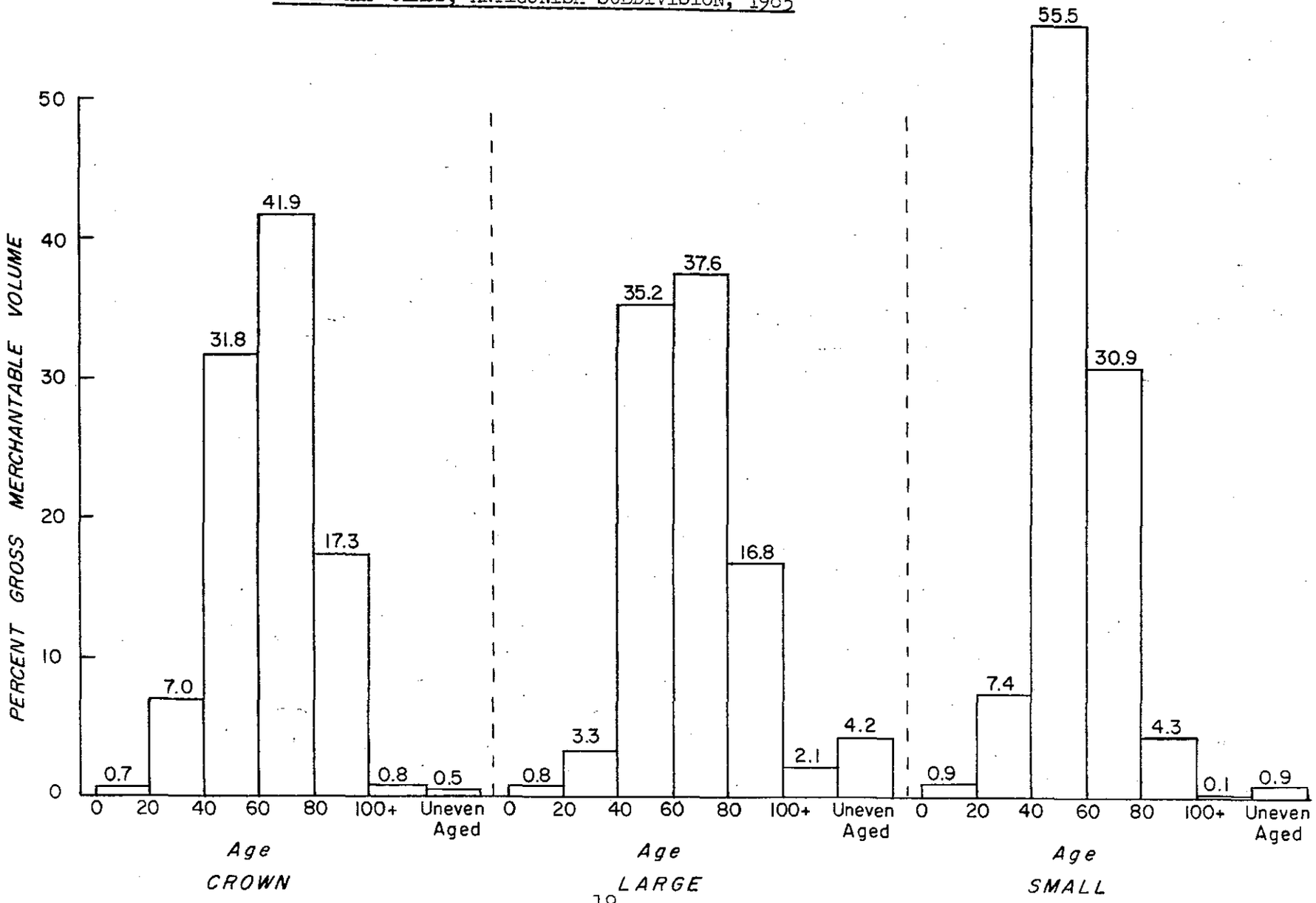


CHART VI: PER CENT OF GROSS MERCHANTABLE VOLUME BY AGE CLASS AND OWNERSHIP CLASS, ANTIGONISH SUBDIVISION, 1965



TREE CONDITION

The inventory specifications call for information on four tree condition classes: "Normal", "Excessive Crook", "Excessive Rot, Seams and Scars", and "Excessive Limbiness". These classes are based strictly on visible defects, and are defined as follows:

1. Excessive Crook; Includes trees which are difficult to measure for merchantable length. These would be doubtful trees for use as pulpwood due to crook and difficulty in cutting.

2. Excessive Limbs; Includes trees, generally hardwoods and open-grown white spruce, which are difficult to measure for merchantable length, and which are suitable for pulpwood only.

3. Excessive Rot, Seams, and Scars: Includes trees having ten per cent or more of merchantable length unusable because of rot, seams and scars.

4. Normal; Includes trees that do not fall in any of the first three classes. Where a tree classifies in more than one of the first three condition classes, the cruiser notes on the tally sheet the most evident condition.

The data are expressed as percentages of a total of 5,244 sample trees for the subdivision. Depending on the species group, the "Normal" tree condition class ranged from 81 to 95 per cent of the sample trees. The other three classes made up a relatively small proportion of the total. In most species groups, any single class other than Normal did not exceed three per cent. The exceptions occurred in white spruce (ten per cent excessive limbiness), in hemlock (ten per cent excessive crook, and eight per cent excessive rot, seams and scars), and in fir (seven per cent excessive rot, seams and scars). Hardwood also showed a high incidence of rot, seams and scars (nine per cent).

Concerning the hardwoods, it should be noted that the basis of comparison for tree condition in this inventory was not central Canada hardwoods, but Nova Scotia hardwoods. Because of the prevalence of limbiness, top damage and over-maturity in those hardwoods, their use as standards tends to give a higher assessment of quality than if central Canada standards were used.

CROWN CLASSES

Crown classes of sample trees were tallied as dominant, co-dominant, intermediate or suppressed, as follows:

1. Dominant; Trees with crowns extending above the general canopy level; receiving full light from above and partial light from the sides; larger than the average trees for the stand, with crowns well developed but possibly somewhat crowded on the sides.

2. Co-dominant; Trees with crowns forming the general canopy level; receiving full light from above but comparatively little from the sides; with the crowns usually medium-sized and more or less crowded on the sides.

3. Intermediate; Trees shorter than those in the preceding classes, but forming part of the same canopy level; receiving little direct light from above and none from the sides; with the crown usually small and considered crowded on the sides.

4. Suppressed; Trees with crowns entirely below the general canopy level, and receiving no direct light either from above or from the sides.

The results of this tally are shown in Table A below.

TABLE A: PER CENT OF SAMPLE TREES BY CROWN CLASS AND SPECIES GROUP, ANTIGONISH SUBDIVISION, 1965

SPECIES GROUP	CROWN CLASSES			
	Dominant	Codominant	Intermediate	Suppressed
White Spruce	31	51	16	2
Red, Black Spruce	34	46	18	2
Fir	19	47	27	7
Hemlock, Cedar	15	34	33	18
White, Red Pine	50	35	12	3
Hardwood (Other than Aspen)	30	53	15	2
Aspen	41	52	7	0

VOLUME

Present volume estimates at the gross merchantable level for the subdivision are shown in Table B opposite. They are expressed four ways: as cubic feet, as cords of eight-foot rough (unbarked) pulpwood, as cords of four-foot rough pulpwood, and as board feet. The estimates are therefore independent interpretations of the same basic volume. Each column represents a complete and separate picture of the growing stock in the subdivision, expressed in a single unit of measure. The reader is asked to note that the gross merchantable volumes here given make no cull deduction whatsoever, and are based on the assumption that all areas are operable and accessible. Conversion factors are given below the table.

TABLE B: ESTIMATE OF GROSS MERCHANTABLE VOLUME AS EQUIVALENT CUBIC FEET, OR ROUGH CORDS, OR BOARD FEET; ANTIGONISH SUBDIVISION, 1965

(All values in thousands)

	GROSS MERCH. CUBIC FEET	EIGHT-FOOT(1) ROUGH CORDS	FOUR-FOOT(2) ROUGH CORDS	BOARD(3) Feet
SOFTWOODS	831,400	10,700	9,800	2,800,000
HARDWOODS	407,300	5,200	4,800	1,600,000
TOTALS	1,238,700	15,900	14,600	4,400,000

(1) Conversion factor 78 cu. ft. = one cord
(2) Conversion factor 85 cu. ft. = one cord
(3) Conversion factor 176 cu. ft. = 1,000 fbm of sawn product, using trees 6.6 inches DBH and larger to 4 inch minimum top diameter.

The above volumes are based on certain specifications. Merchantable length or height is defined as that part of a tree which would normally be usable at a pulpwood level of utilization. Softwoods will generally be merchantable to the four-inch top diameter (outside bark)

class, with the limiting factor generally being broken tops. Hardwoods on the other hand often display poor form due to excessive limbs and crooks. Hardwoods are normally taken to the four-inch top diameter (outside bark) class, or to the point where most of the larger limbs begin. It is acceptable to have one limb below either of these points, provided the limb is under five inches in diameter where it emerges from the trunk.

Trees which are so crooked as to make piling and scaling as four-foot bolts difficult are not considered merchantable. The minimum merchantable length is four feet above stump height. Trees which branch into distinct boles within four feet of stump height are measured as separate trees and classified as such.

The standard for classifying hardwoods in this inventory is based on the type of trees growing in Nova Scotia. This fact should be borne in mind when attempting to relate the hardwood data contained herein to similar data from elsewhere.

COMPARISONS: 1965 AND 1955

A fundamental purpose in obtaining new forest inventory data is to compare it with previous data in order to investigate trends and to formulate policy. Comparisons can best be made when data are available from a long series of measurements made at regular intervals and under standard specifications. Unfortunately, forest data in Nova Scotia have not been so collected in the past. The present inventory system will gradually improve this situation. Comparisons will thus become more significant with time. Some area and volume comparisons between the two inventories follow.

AREA

TABLE C: LAND CLASSES AS A PER CENT OF TOTAL SUBDIVISION AREA, 1965 AND 1955, ANTIGONISH SUBDIVISION

Land Class	1965	1955	Difference
Forested			
Softwood	45.8	36.3	+9.5
Mixed Wood	19.4	27.5	-8.1
Hardwood	14.6	8.3	+6.3
Other Forested	0.2	0.5	-0.3
Subtotal	80.0	72.6	+7.4
Non-Forested			
Agriculture & Urban	7.2	12.8	-5.6
Other non-forested	12.8	14.6	-1.8
Subtotal	20.0	27.4	-7.4
Total	100.0	100.0	000.0

NOTE: "Other Forested" in the 1955 inventory includes depleted forests (recent burns and clear-cuts); in the 1965 inventory it includes plantations, recent burns, and clear-cuts. "Other Non-Forested" in 1955 and 1965 include all non-forest areas (except agriculture and urban): swamps, water, bogs, etc. Cleared right-of-ways were not classified in 1955.

In Table C a change in the distribution of land classes is evident. Several things can account for this. One is variations in sampling, which are largely unavoidable. Another is the finer degree of typing called for in the 1965 specifications. To achieve this, field observations became the primary means for classification, instead of photo-interpretation alone, as in 1955. Because field typing in conjunction with photo-typing allows greater precision than photo-typing alone, some of the land previously classed as "Non-Forested" is now being classed as "Forested". This results in more accurate estimation of cover types.

A case in point is the apparent decrease of farmland and waste lands shown by the current data. This decrease is partly explained by the fact that wherever the 1965 field observations showed signs of such lands growing in, they were classified as "Forested". Close typing of this kind was not possible in the 1955 survey, because at that time much of the regeneration did not show on the photographs.

There is also some real decrease in agricultural land in the Subdivision, due to the invasion of abandoned fields by regeneration. It might be noted that this regeneration is mostly softwood.

Each of the forest cover types above were further grouped into forest types, using cover, height, age, density and site. These forest types are of two kinds: photo types and ground types. Basically, the ground types are more detailed than the photo types. The differences are detailed in Section III.

Three of the most commonly occurring photo-types, representing 41% of the forest area of the subdivision, are:

(a) Softwood cover of 41% to 60% density, 31 to 50 feet tall, average age 65, Site Quality IV.

(b) Mixed Wood cover of 41% to 60% density, 31 to 50 feet tall, average age 61, Site Quality IV.

(c) Hardwood cover of 41% to 60% density, 31 to 50 feet tall, average age 63, Site Quality IV.

In all there were 52 forest photo-types sampled in the subdivision. Of the total sampled area, 35 types comprised 90 percent, 20 types comprised 81 percent, and five types made up 54 percent.

Unfortunately, these forest categories cannot be effectively compared with those of the 1955 inventory, because the limits of the components which define them are different--in fact, they overlap.

VOLUME

When comparing volume estimates of the two inventories, only gross volume (cubic feet) can be used. This is because of differences in specifications, in the tables used, and in method. Actually, there are fewer pitfalls in comparing at this level than at any other.

The gross volume in 1955 was defined as the solid cubic feet content of all trees of 3.6 inches DBH and larger, and included the volume in the stems only from an average stump height of one foot to the tips of the trees, including bark.

The gross volume in 1965 includes the cubic foot volume of solid wood contained in all trees of 3.6 inches DBH and larger in the stems only from ground level to the tips of the trees, excluding bark.

If the two inventories are directly compared, we see that there is a 19.3% decrease from the 1955 gross volume. Differences in method, especially regarding volume tables and their application, are at least partly responsible for this.

In order to make such comparisons, then, allowance s must be made for differences in specifications and method. The assumption is therefore made that bark volume equals stump volume. Concerning method, tests were conducted to determine what effects different approaches might have had on the resultant volume estimates in both inventorys.

Four aspects were investigated:use of different volume tables, different methods of entering volume tables, different methods of applying volume tables, and differences in sample tree specifications.

The investigation showed that the 1955 gross cubic foot volumes should be reduced by 10% for softwoods and 20% for hardwoods in order to make valid comparisons with 1965 data possible.

The causes of these differences were also established. Half the discrepancy in hardwood volumes was traced to the use of softwood volume tables in 1955--there being no suitable local hardwood tables then. The other half was due to differences in sample tree specifications and in the use of the tables. The latter applied equally to softwoods and hardwoods.

Using these adjustments, and assuming bark and stump volume to be equal, the following volume comparisons between 1965 and 1955 are made for the subdivision.

TABLE D: PER CENT DIFFERENCE IN GROSS CUBIC FOOT VOLUMES BETWEEN 1965 AND 1955* INVENTORIES BY COUNTY, ANTIGONISH SUBDIVISION (BASE: 1955)

	Pictou	Antigonish	Guysborough	Subdivision
Softwood	+1.7	+3.5	-1.0	-3.7
Hardwood	+0.1	-2.5	-0.5	-2.7
TOTAL	+1.8	+1.0	-1.5	-6.4

*Adjusted (a) minus 10% for softwoods,
(b) minus 20% for hardwoods.

TABLE E: PER CENT DIFFERENCE IN GROSS CUBIC FOOT VOLUME BY SPECIES BETWEEN 1965 AND 1955 INVENTORIES, USING 1955 ADJUSTED GROSS VOLUME AS THE BASIS OF COMPARISON, ANTIGONISH SUBDIVISION.

SPECIES	PERCENT DIFFERENCE
White Spruce	+ 1.6
Red, Black Spruce	+ 3.1
Fir	- 8.3
Hemlock	- 0.1
Other Softwoods	- 0.1
TOTAL SOFTWOODS	- 3.8
Sugar Maple	- 1.0
Red Maple	+ 2.2
Yellow Birch	- 4.7
White Birch	+ 0.7
Other Hardwoods	+ 0.1
TOTAL HARDWOODS	- 2.7
TOTAL	- 6.5

TABLE F: COMPARISON OF SPECIES DISTRIBUTION BY GROSS CUBIC FOOT VOLUME PERCENTAGES IN THE 1965 AND 1955* INVENTORIES, ANTIGONISH SUBDIVISION

SPECIES	1965	1955
White Spruce	12.0	9.5
Red, Black Spruce	20.4	15.8
Fir	28.4	35.0
Hemlock	2.6	2.5
White Pine	1.9	2.5
Other Softwoods	0.9	0.3
TOTAL SOFTWOODS	66.2	65.6
Sugar Maple	6.3	7.0
Red Maple	12.9	9.9
Yellow Birch	8.3	12.4
White Birch	1.9	1.1
Other Hardwoods	4.4	4.0
TOTAL HARDWOODS	33.8	34.4
TOTAL	100.0	100.0

* Adjusted minus 10% for softwoods, minus 20% for hardwoods.

TABLE G: PER CENT OF GROSS CUBIC FOOT VOLUME BY DIAMETER GROUPS IN 1965 AND 1955* INVENTORIES, ANTIGONISH SUBDIVISION

DIAMETER GROUP (DBH)	1965	1955
SOFTWOOD		
4 to 9 inches	47.8	47.0
10 inches and over	18.4	18.6
TOTAL SOFTWOOD	66.2	65.6
HARDWOOD		
4 to 9 inches	18.4	16.3
10 inches and over	15.4	18.1
TOTAL HARDWOOD	33.8	34.4
TOTAL	100.0	100.0

*Adjusted minus 10% for softwoods, minus 20% for hardwoods.

Table E shows a loss in the volume of fir and yellow birch since 1955. A possible explanation for this is mortality through age, overcrowding, or the end effect of the Birch Dieback. However, from the information presently available it is difficult to make a confident diagnosis. The remeasurement program on the permanent sample plots will provide valuable clues.

V Local Volume Tables

METHOD OF CONSTRUCTION

Local volume tables were produced from the sample tree data collected at five points along each cruise line. From these data three height-diameter curves for each species group were plotted, smoothed and balanced.

The curves provided values for total height, merchantable height, and stump height. These values were then inserted into Honer's formulae to obtain gross and gross merchantable volumes.

Honer's formula for gross volume (cubic feet):

$$\text{Gross Volume} = \frac{D^2}{a + \frac{b}{H}}$$

where D = DBHob
H = total height
a and b = constants for each species group.

Honer's formula for gross merchantable volume (cubic feet):

Gross merchantable volume =

$$\text{Gross Volume} \left[A\,(X_1 - X_{12}) + C\,(X_1^2 - X_{12}^2) \right]$$

where $X_1 = \frac{\text{merchantable height}}{\text{total height}}$

$X_{12} = \frac{\text{Stump height}}{\text{Total height}}$

A and C = constants for each species group.

"Gross Volume" in every table is defined as solid cubic contents from ground level to tip of tree, excluding bark. "Merchantable Volume" is always gross merchantable, and means solid cubic contents, excluding bark, from stump height to a minimum top diameter of 3.6 inches outside bark (or larger if deformity or damage reduces the merchantable length).

Using Honer's formulae with the curved values from sample plot data, Individual Tree Volume Tables for each species group were produced. These tables follow.

Where data beyond a certain DBH were not available, volumes were extrapolated. The point where extrapolation begins is shown in the tables by a dashed line.

INDIVIDUAL TREE LOCAL VOLUME TABLES BY SPECIES GROUPS: SUBDIVISION I

SPECIES GROUP 1: WHITE SPRUCE

DBHob Inches	Gross Volume Cubic Feet	Merchantable Volume Cubic Feet
4	0.9	0.3
5	1.7	1.2
6	2.8	2.1
7	4.0	3.4
8	5.7	4.8
9	7.4	6.5
10	9.6	8.5
11	12.1	10.8
12	15.0	13.5
13	18.0	16.3
14	21.7	19.8
15	25.3	23.4
16	29.9	27.3
17	34.3	31.7
18	39.7	36.7
19	45.0	41.8
20	50.6	47.1
21	56.7	52.6
22	63.2	58.7
23	70.1	64.9
24	77.4	71.8

NOTE: Values below the dashed line are extrapolated.

August, 1966

SPECIES GROUP 2: SPRUCE (Red, Black); Larch, Jack Pine

DBHob Inches	Gross Volume Cubic Feet	Merchantable Volume Cubic Feet
4	1.0	0.5
5	1.9	1.4
6	3.1	2.5
7	4.8	4.1
8	6.9	6.0
9	9.3	8.2
10	12.3	11.0
11	15.8	14.3
12	19.7	18.0
13	24.2	22.3
14	29.0	26.7
15	34.7	32.2
16	41.0	38.1
17	48.1	44.7
18	55.2	51.7
19	63.6	59.8
20	71.3	67.1
21	79.4	74.8
22	88.1	82.8
23	97.3	91.5
24	105.9	99.9

NOTE: Values below the dashed line are extrapolated.

August, 1966

INDIVIDUAL TREE LOCAL VOLUME TABLES BY SPECIES GROUPS: SUBDIVISION I

SPECIES GROUP 3: BALSAM FIR

DBHob Inches	Gross Volume Cubic Feet	Merchantable Volume Cubic Feet
4	1.0	0.4
5	1.9	1.3
6	2.9	2.3
7	4.3	3.6
8	5.9	5.1
9	7.9	6.9
10	10.1	9.0
11	12.7	11.6
12	15.7	14.5
13	19.1	17.6
14	22.9	21.2
15	27.1	25.0
16	31.8	29.1
17	36.9	33.7
18	42.5	38.7
19	48.6	44.2
20	55.2	49.8
21	62.2	56.1
22	69.1	62.5
23	76.4	69.0
24	84.1	76.1

NOTE: Values below the dashed line are extrapolated.

August, 1966

SPECIES GROUP 4: HEMLOCK, CEDAR

DBHob Inches	Gross Volume Cubic Feet	Merchantable Volume Cubic Feet
4	0.9	0.5
5	1.7	1.1
6	2.7	2.0
7	3.9	3.2
8	5.5	4.6
9	7.3	6.2
10	9.4	8.3
11	11.7	10.5
12	14.6	13.2
13	17.9	16.2
14	21.2	19.2
15	24.8	22.5
16	28.8	26.1
17	33.1	30.2
18	37.8	34.6
19	42.9	39.1
20	48.4	44.3
21	54.3	49.5
22	60.7	55.4
23	67.4	61.7
24	74.6	68.2

NOTE: Values below the dashed line are extrapolated.

August, 1966

INDIVIDUAL TREE LOCAL VOLUME TABLES BY SPECIES GROUPS: SUBDIVISION I

SPECIES GROUP 5: PINE (White, Red, Scotch)

DBHob Inches	Gross Volume Cubic Feet	Merchantable Volume Cubic Feet
4	0.8	0.3
5	1.8	1.5
6	3.1	2.8
7	4.8	4.5
8	6.7	6.2
9	9.0	8.5
10	11.9	11.2
11	14.9	14.1
12	18.7	17.7
13	22.7	21.5
14	27.3	25.8
15	31.8	30.2
16	37.3	35.4
17	42.8	40.5
18	50.1	47.2
19	57.4	53.9
20	65.4	61.3
21	74.0	69.2
22	83.2	77.7
23	93.2	86.8
24	102.7	95.5

NOTE: Values below the dashed line are extrapolated.

August, 1966

SPECIES GROUP 6: HARDWOODS (Other than Aspen, Balsam Poplar)

DBHob Inches	Gross Volume Cubic Feet	Merchantable Volume Cubic Feet
4	1.1	0.4
5	2.0	1.3
6	3.1	2.3
7	4.4	3.5
8	6.0	5.0
9	7.9	6.6
10	10.2	8.6
11	12.9	11.0
12	15.6	13.3
13	19.0	16.1
14	22.5	19.1
15	26.7	22.6
16	30.9	26.3
17	35.4	29.8
18	40.4	34.1
19	45.7	38.2
20	51.4	42.7
21	57.5	47.2
22	64.1	52.2
23	71.0	57.2
24	78.5	62.6

NOTE: Values below the dashed line are extrapolated.

August, 1966

INDIVIDUAL TREE LOCAL VOLUME TABLES
BY SPECIES GROUPS: SUBDIVISION I

SPECIES GROUP 7: ASPEN, Balsam Poplar

DBHob Inches	Gross Volume Cubic Feet	Merchantable Volume Cubic Feet
4	1.2	0.4
5	2.2	1.6
6	3.4	2.7
7	5.0	4.2
8	7.0	6.1
9	9.4	8.3
10	12.1	10.9
11	15.6	14.0
12	19.6	17.6
13	23.4	20.9
14	27.6	24.5
15	32.3	28.4
16	36.7	32.3
17	41.5	36.9
18	47.3	41.6
19	52.7	46.4
20	58.4	51.4
21	64.4	56.7
22	71.9	62.9
23	78.6	68.7
24	85.6	74.8

NOTE: Values below the dashed line are extrapolated.

August, 1966

VI Conversion Factors

Except where broad comparisons are made, as in section IV, this report presents all volume data in cubic feet. It is left to the user of these data to convert them to the units he requires, using his own conversion factors. However, the guidelines provided in this section may prove useful.

CONVERTING CUBIC FOOT VOLUME TO CORDS

The number of cubic feet of solid wood in a cord varies with species, average diameter and length of bolts, taper, method of piling, average bark thickness, closeness of limbing, amount of foreign material on the bolts, and the amount of crook, sweep, and abnormal growth projections. With so many variables affecting the result, no conversion factor employing exterior dimensions can be precise. Nonetheless, a number of such factors have been developed.

FOUR-FOOT BOLTS

Two factors commonly used for converting from cords of four-foot pulpwood to solid cubic contents are*:

85 cu. ft. solid wood = one cord rough softwood
95 cu. ft. solid wood = one cord peeled softwood

EIGHT-FOOT BOLTS

In theory, it should be possible to convert from cubic

*Flann, I. B., Some Conversion Factors and Related Information For Use in Primary Forest Industry of Eastern Canada; Note # 26, 1962.

feet to cords of eight-foot wood with the same factors used for four-foot wood. Were the bolts perfectly straight in both cases and all other things equal, this could be done.

In practice, the extra length increases the proportion of voids due to crook, sweep, taper and abnormalities. According to Flann, this increase results in the cubic foot content of solid wood per cord being "usually five per cent less for eight-foot wood than for four-foot wood", other things being equal. By this estimate a cord of rough eight-foot softwood would be expected to contain about 81 cubic feet of solid wood, on the average. However, measurements by local pulp companies have shown an average solid wood content of approximately 78 cubic feet per rough cord of softwood.

Regarding eight-foot hardwood pulpwood, it is generally believed that one rough cord contains 70 to 78 cubic feet of solid wood, on the average. Although this estimate has not been proved, it appears a reasonable one when the greater crookedness of hardwoods is considered.

CONVERTING CUBIC FOOT VOLUME TO BOARD MEASURE

The actual solid wood content in cubic feet of log volume required to produce one thousand board feet of lumber varies by species, log size, mill equipment and methods, dimensions being sawn, and the quality specifications of the market. These variables can cause the conversion factor for roundwood at roadside or mill to vary from about 140 cubic feet per thousand to over 200 cubic feet per thousand.

No attempt is made here to provide a single factor for converting cubic feet to board feet. Instead, an analysis is presented showing the factors which enter such a conversion at each level of utilization. This permits the individual to use or alter the factors as he sees fit.

The basic factor used is 176 cubic feet per thousand feet board measure, a figure developed by G. E. Bell. These studies, which were published in the Flann paper cited, included "a wide variety of mill types" in Eastern Canada, "sawing logs with an average diameter of 8.4 inches". Elsewhere in his paper Flann presents other values for different types of head saws and different mill sizes.

Explanations follow the seven steps given below.

AN ANALYSIS

1. Gross merchantable (cu. ft.) solid wood from tables in section VIII, minus top, stump and bark, for trees 3.6 inches DBH and larger to 4-inch top.....(VALUE)

2. Gross merchantable volume (cu. ft.) of solid wood in trees between 3.6 inches DBH and 6.5 inches DBH to a 4-inch top; also available from tables, section VIII .....(VALUE)

3. Gross merchantable (cu. ft.) sawlog volume in roundwood form to 4-inch top (ie; 3 = 1 - 2).....(VALUE)

4. Sawlog residue (cu. ft.) equals gross merchantable roundwood volume in step 3 multiplied by 52.8% .....(VALUE)

This residue factor is derived as follows:

176 cu. ft. solid wood in round log = 1,000 fbm
83 cu. ft. solid wood in lumber = 1,000 fbm

93 cu. ft. solid wood in residue =

$$\frac{93}{176} \times 100 = 52.8\%$$

The residue consists of.

28 cu. ft./M fbm in sawdust (15.9% of 176)
65 cu. ft./M fbm in slabs, edgings, trim (36.9% of 176)

5. Sawn product in gross merchantable cu. ft. (ie; 5 = 3 - 4)..... .....(VALUE)

6. Gross merchantable sawn product in fbm, at 83 cu. ft. of sawn product = 1,000 fbm

   (ie; $6 = \frac{5}{83} \times 1{,}000$.....(VALUE)

7. Pulpwood chip potential (7 = 3 x 36.9%)....(VALUE)

EXPLANATION

The values in Steps 1 and 2 come directly from the tables. The volume in Step 2 would be the portion from which pulpwood would be cut in an integrated operation. Step 3 gives the difference between the volumes derived from Steps 1 and 2, which is the volume for trees 6.6" DBH and larger to a 4" top. (All the board foot volumes computed from these data are calculated to a 4" top, because the factors needed to find the volume for the portion between a larger top and a 4" top are not available. Those factors would have to take account of such variables as cutting practices and market requirements, which may cause top diameter to range from nine inches to four.) The trend on integrated operations is to utilize to a four-inch top.

Steps 4, 5 and 6 arrive at the sawn production in feet board measure from the given cubic foot volume of sawlog roundwood. This is done by deducting for sawdust, slabs, edgings and trim and then converting the remainder to board measure.

It should be noted here that the factors commonly used in converting cubic foot standing volumes to roadside or mill volumes in other units tend to overestimate. This is because they are not designed to allow for logging losses arising from cull, breakage and other causes between the standing timber and the roundwood level.

The net effect of these losses is to call for a larger factor when attempting to relate standing volumes to roadside volumes. The size of this factor is further increased when the lower average yield of hardwoods--which are generally estimated with a softwood factor--is considered. The factor would also fluctuate with changing degrees of utilization.

What the correct values are has not been established. Indeed, it would be difficult to do so. It is because of these uncertaintities that this report presents all values in cubic feet, leaving it to the reader to select the factors he prefers.

In the two instances where conversion from cubic feet to board feet was made, the value 176 was used for the sake of consistency with former Department publications.

CONVERSION FACTOR REFERENCES

Bell, G.E.; Factors Influencing the Manufacture of Sawlogs into Lumber in Eastern Canada. Bulletin 99, Ottawa, 1951.

Department of Mines and Resources; Form Class Volume Tables (2nd Edition), Ottawa, 1948

Flann, I.B.; Some Conversion Factors and Related Information for Use in the Primary Forest Industries of Eastern Canada, Technical Note No. 26, Forest Products Research Laboratory, Ottawa, 1962.

Hawboldt, L.S.; "What is a Cord?" Department of Lands and Forests, Truro, 1965.

Society of American Foresters; Forestry Hand Book, New York, 1955.

VII List of Species

On the right is a list of the commercial Nova Scotia trees by their common and botanical names. It is according to the 1966 edition of Native Trees of Canada (Bulletin 61, Department of Forestry, Ottawa).

SOFTWOODS

Balsam Fir	Abies balsamea (L.) Mill
Red Spruce	Picea rubens Sarg.
White Spruce	Picea glauca (Moench)Voss
Black Spruce	Picea mariana (Mill.)B.S.P.
Eastern Hemlock	Tsuga canadensis (L.)Carr.
Eastern White Pine	Pinus strobus L.
Red Pine	Pinus resinosa Ait.
Jack Pine	Pinus banksiana Lamb.
Tamarack (Larch,Hackmatack)	Larix laricina (Du Roi)K.Koch
Eastern White Cedar	Thuja occidentalis L.

HARDWOODS

Yellow Birch	Betula alleghaniensis Britt.
White Birch	Betula papyrifera Marsh.
Grey (Wire) Birch	Betula populifolia Marsh.
Hard (Sugar) Maple	Acer saccharum Marsh.
Soft (Red) Maple	Acer rubrum L.
Beech	Fagus grandifolia Ehrh.
Red Oak	Quercus rubra L.
Largetooth Aspen	Populus grandidentata Michx.
Trembling Aspen	Populus tremuloides Michx.
Balsam Poplar	Populus balsamifera L.
American (White) Elm	Ulmus americana L.
Ironwood	Ostrya virginiana (Mill.)K.Koch
White Ash	Fraxinus americana L.
Black Ash	Fraxinus nigra Marsh.

VIII Tables

The tables are numbered consecutively for easy reference. The first four give acreage estimates by ownership class, municipality and subdivision. The remainder give volume estimates in cubic feet for each of the municipalities, and for the municipalities combined.

These volume estimates are given at the gross and gross merchantable levels, (as defined in section IV), and presented in four ways for each level: by density, by age, by site and by species. Except in the "Species" tables, all data are further classified by cover type, DBH group and ownership class. In the "Species" tables they are classified by DBH group and ownership class only.

INDEX: AREA CLASSIFICATION ESTIMATES

(By ownership class, municipality and subdivision)

INDEX: VOLUME ESTIMATES IN CUBIC FEET

By cover type (except in "Species" tables), DBH group, and ownership class.

PICTOU MUNICIPALITY

Gross Volume by:

Gross Merchantable Volume by:

ANTIGONISH MUNICIPALITY

Gross Volume by:

Gross Merchantable Volume by:

ST. MARY's MUNICIPALITY

Gross Volume by:

21. Density Classes
22. Age Classes
23. Site Classes
24. Species

Gross Merchantable Volume by:

25. Density Classes
26. Age Classes
27. Site Classes
28. Species

GUYSBOROUGH MUNICIPALITY

Gross Volume by:

29. Density Classes
30. Age Classes
31. Site Classes
32. Species

Gross Merchantable Volume by:

33. Density Classes
34. Age Classes
35. Site Classes
36. Species

ALL MUNICIPALITIES

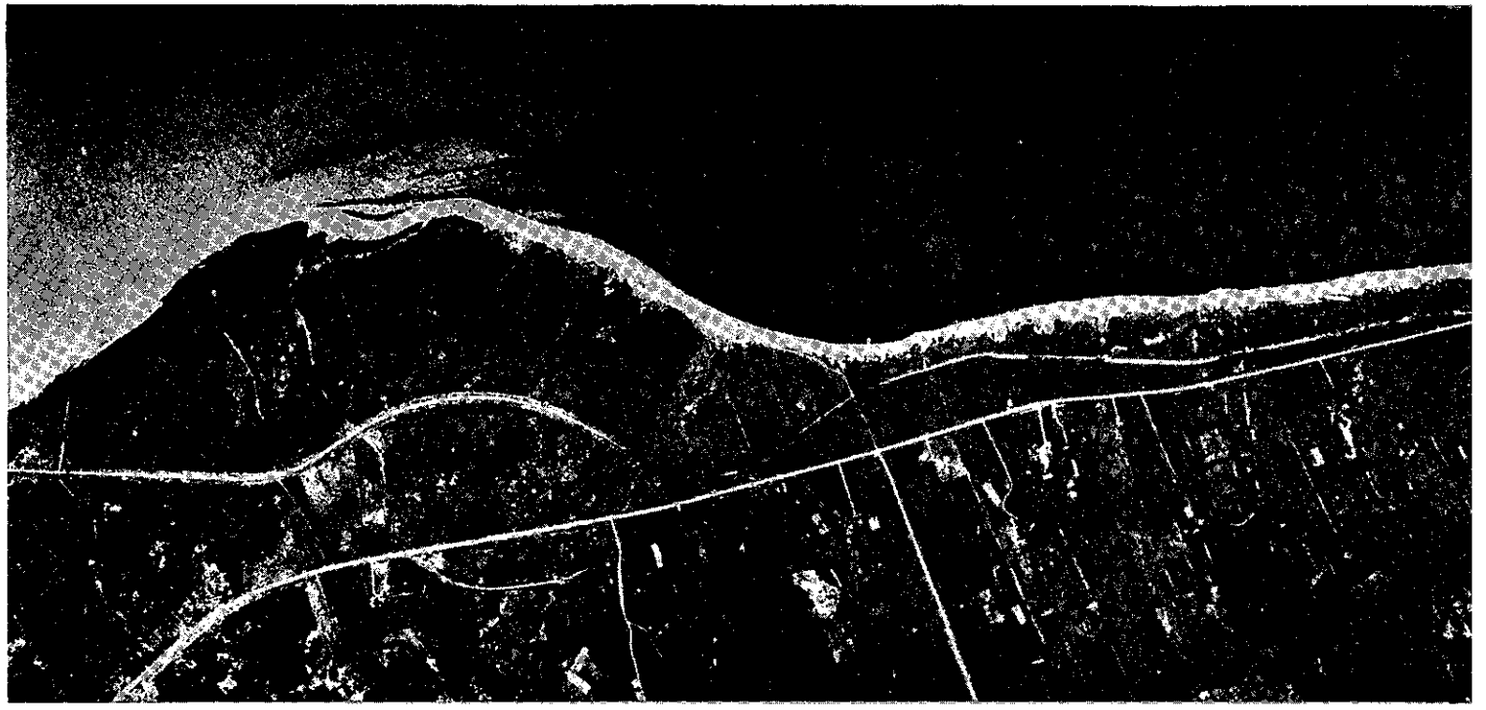
Gross Volume by:

37. Density Classes
38. Age Classes
39. Site Classes
40. Species

Gross Merchantable Volume:

41. Density Classes
42. Age Classes
43. Site Classes
44. Species

The Tables:



MAJOR FOREST AND NON-FOREST LAND CLASSIFICATION — SUBDIVISION I — AREA IN ACRES BY MUNICIPALITY AND OWNERSHIP CLASS

1 — 1

MUNICIPALITY

FOREST LAND AND NON-FOREST LAND CLASSIFICATION	PICTOU CROWN LAND	PICTOU LARGE OWNER	PICTOU SMALL OWNER	PICTOU M R + P *	PICTOU TOTAL	ANTIGONISH CROWN LAND	ANTIGONISH LARGE OWNER	ANTIGONISH SMALL OWNER	ANTIGONISH M R + P *	ANTIGONISH TOTAL	ST. MARYS CROWN LAND	ST. MARYS LARGE OWNER	ST. MARYS SMALL OWNER	ST. MARYS M R + P *	ST. MARYS TOTAL	GUYSBOROUGH CROWN LAND	GUYSBOROUGH LARGE OWNER	GUYSBOROUGH SMALL OWNER	GUYSBOROUGH M R + P *	GUYSBOROUGH TOTAL	ALL MUNICIPALITIES CROWN LAND	ALL MUNICIPALITIES LARGE OWNER	ALL MUNICIPALITIES SMALL OWNER	ALL MUNICIPALITIES M R + P *	ALL MUNICIPALITIES TOTAL
FOREST LAND																									
SOFTWOOD LAND	4265	2874	20881		28021	1180	75	15051		16306	15282	5287	6871		27441	11056	369	14260		25686	31784	8607	57065		97456
MIXEDWOOD LAND	1902	866	14776		17544	582	96	5921		6590	3712	1928	2238		7879	4021	197	4977		9196	10218	3079	27913		41211
HARDWOOD LAND	1765	1894	8840		12499	930	11	4181		5122	2945	1412	1289		5646	4673	91	2897		7661	10314	3408	17207		30930
CLEAR CUT	142		21		163						159				159	20				20	322		21		344
RECENT BURN																									
PLANTATION																									
TOTAL FORESTED LAND	8075	5635	44519		58230	2692	173	25154		28020	22099	8629	10398		41126	19772	657	22135		42565	52640	15094	102208		169943
NON-FOREST LAND	90	9	163		264			45		45	1	15	44		61	78		15		94	170	25	268		465
BOGO OPEN + TREED	256	110	638		1005	14		231		246	1323	167	800		2291	2358		773		3131	3953	277	2443		6675
ALDERS + BRUSH	88	37	1099		1224	149	28	1151		1330	665	143	267		1075	674	40	565		1279	1578	249	3083		4910
ROCK BARREN	65				65			21		21	821	74	279		1175	3762		730		4492	4650	74	1030		5755
AGRICULTURE + MARSH	101	34	7859		7995	36	14	5007		5058	14	53	583		651	7		1092		1099	159	101	14543		14804
URBAN			612		612													12		12			624		624
ROAD AND R.R.	20	37	894		953	62	4	581		648	187	103	66		357	71	1	180		253	341	147	1723		2212
TRANSMISSION LINE	7		72		79	19		42		62		13			13	4		59		64	31	13	174		220
TIDAL FLATS + MARSH			13		13			38		38			24		24	42		19		62	42		95		138
TOT NON-FOREST LAND	631	228	11353		12213	281	48	7121		7450	3014	571	2065		5651	7000	41	3448		10491	10928	889	23988		35807
WATER	177	10	367		554	247		247		495	1002	239	306		1548	2491	40	691		3223	3919	289	1612		5821
FLOWAGE	45	36	309		391			2		2	33	18	81		133	18		190		208	97	55	582		735
TOTAL	222	47	676		946	247		250		498	1036	257	387		1681	2510	40	881		3431	4017	345	2195		6557
OFFSHORE SMALL ISLANDS					19					3					53					162					238
GRAND TOTAL	8929	5911	56549		71410	3222	221	32525		35973	26150	9457	12851		48512	29283	739	26465		56650	67585	16329	128392		212546

* M R + P # MILITARY RESERVES AND PARKS

ALL FIGURES ARE IN TENS OF ACRES

SUBDIVISION 1 AREA IN ACRES BY MUNICIPALITY AND OWNERSHIP CLASS

2

FOREST LAND BY DENSITY CLASSES	PICTOU CROWN LAND	PICTOU LARGE OWNER	PICTOU SMALL OWNER	PICTOU M R + P *	PICTOU TOTAL	ANTIGONISH CROWN LAND	ANTIGONISH LARGE OWNER	ANTIGONISH SMALL OWNER	ANTIGONISH M R + P *	ANTIGONISH TOTAL
SOFTWOOD LAND										
UP TO 40%	792	62	3275		4130	180		2021		2202
41% - 60%	604	357	4640		5602	156	9	2481		2647
61% - 80%	1961	1605	8512		12079	800	65	5210		6076
81% -100%	910	850	3758		5519	149		5488		5638
OVERSTOCKED	88		1050		1139			485		485
TOTAL	4357	2874	21238		28470	1286	75	15688		17050
MIXEDWOOD LAND										
UP TO 40%	341		974		1315	56	11	310		377
41% - 60%	291	240	1977		2509	20		585		606
61% - 80%	992	599	9562		11154	378	86	2770		3235
81% -100%	327	26	1708		2061	77		1545		1622
OVERSTOCKED			318		318			249		249
TOTAL	1952	866	14540		17359	532	97	5460		6091
HARDWOOD LAND										
UP TO 40%	120	32	101		254	21		75		96
41% - 60%	289	692	1268		2251	49		226		275
61% - 80%	1164	1070	6373		8608	193		2470		2664
81% -100%	164	97	973		1236	250		988		1239
OVERSTOCKED	25		22		48	360		243		603
TOTAL	1764	1894	8740		12399	873		4005		4879
ALL FOREST LAND										
UP TO 40%	1254	94	4351		5700	258	11	2407		2676
41% - 60%	1185	1290	7886		10362	226	9	3293		3529
61% - 80%	4118	3275	24448		31842	1371	152	10451		11976
81% -100%	1402	974	6440		8817	476		8022		8499
OVERSTOCKED	114		1392		1506	360		978		1338
TOTAL	8075	5635	44519		58230	2692	173	25154		28020

FOREST LAND BY DENSITY CLASSES	ST. MARY CROWN LAND	ST. MARY LARGE OWNER	ST. MARY SMALL OWNER	ST. MARY M R + P *	ST. MARY TOTAL	GUYSBOROUGH CROWN LAND	GUYSBOROUGH LARGE OWNER	GUYSBOROUGH SMALL OWNER	GUYSBOROUGH M R + P *	GUYSBOROUGH TOTAL
SOFTWOOD LAND										
UP TO 40%	2643	344	835		3824	2607	67	2856		5532
41% - 60%	2955	839	1350		5146	2490	91	2907		5489
61% - 80%	6943	2241	2826		12011	4695	155	5962		10814
81% -100%	2296	1528	1403		5228	1215	29	2344		3589
OVERSTOCKED	688	449	553		1690	249	24	485		759
TOTAL	15527	5404	6969		27900	11260	369	14555		26184
MIXEDWOOD LAND										
UP TO 40%	330	96	145		573	466		574		1041
41% - 60%	813	240	292		1347	1306	14	1218		2540
61% - 80%	2225	1364	1283		4873	1939	171	2552		4664
81% -100%	170	127	317		614	131	10	294		436
OVERSTOCKED	76	23	119		219			131		131
TOTAL	3617	1852	2157		7627	3844	197	4772		8814
HARDWOOD LAND										
UP TO 40%	213	15	106		335	741	13	199		955
41% - 60%	694	132	145		973	825	44	248		1118
61% - 80%	1365	992	961		3318	1360	32	1802		3196
81% -100%	629	219	57		907	1662		496		2159
OVERSTOCKED	52	11			63	76		59		136
TOTAL	2955	1371	1271		5598	4667	91	2807		7566
ALL FOREST LAND										
UP TO 40%	3188	456	1087		4732	3816	81	3631		7529
41% - 60%	4464	1213	1789		7466	4623	150	4374		9148
61% - 80%	10534	4598	5071		20203	7996	360	10318		18674
81% -100%	3097	1875	1777		6750	3010	40	3135		6186
OVERSTOCKED	816	484	672		1973	325	24	676		1027
TOTAL	22099	8628	10398		41126	19772	657	22135		42565

FOREST LAND BY DENSITY CLASSES	ALL MUNICIPALITIES CROWN LAND	ALL MUNICIPALITIES LARGE OWNER	ALL MUNICIPALITIES SMALL OWNER	ALL MUNICIPALITIES M R + P *	ALL MUNICIPALITIES TOTAL
SOFTWOOD LAND					
UP TO 40%	6224	474	8989		15688
41% - 60%	6207	1298	11380		18885
61% - 80%	14400	4068	22512		40981
81% -100%	4572	2408	12994		19975
OVERSTOCKED	1027	473	2574		4075
TOTAL	32431	8723	58451		99606
MIXEDWOOD LAND					
UP TO 40%	1195	107	2005		3308
41% - 60%	2432	496	4073		7002
61% - 80%	5536	2222	16169		23927
81% -100%	706	164	3864		4735
OVERSTOCKED	76	23	818		918
TOTAL	9947	3014	26931		39893
HARDWOOD LAND					
UP TO 40%	1097	62	482		1642
41% - 60%	1858	869	1890		4619
61% - 80%	4083	2095	11609		17787
81% -100%	2707	317	2517		5542
OVERSTOCKED	514	11	326		852
TOTAL	10261	3356	16825		30443
ALL FOREST LAND					
UP TO 40%	8517	644	11477		20639
41% - 60%	10498	2664	17343		30506
61% - 80%	24020	8386	50290		82697
81% -100%	7985	2890	19376		30253
OVERSTOCKED	1618	508	3720		5846
TOTAL	52640	15094	102208		169943

* M R + P = MILITARY RESERVES AND PARKS

ALL FIGURES ARE IN TENS OF ACRES

SUBDIVISION 1 AREA IN ACRES BY MUNICIPALITY AND OWNERSHIP CLASS

3

FOREST LAND BY AGE CLASSES	PICTOU CROWN LAND	PICTOU LARGE OWNER	PICTOU SMALL OWNER	PICTOU M R + P *	PICTOU TOTAL	ANTIGONISH CROWN LAND	ANTIGONISH LARGE OWNER	ANTIGONISH SMALL OWNER	ANTIGONISH M R + P *	ANTIGONISH TOTAL
SOFTWOOD LAND										
UP TO 20YRS	254	103	3875		4234	204		2017		2222
21YRS - 40YRS	625	297	3881		4804	289		3016		3306
41YRS - 60YRS	1812	1339	9860		13011	565	75	9403		10045
61YRS - 80YRS	1001	659	2642		4303	125		1239		1364
81YRS -100YRS	532	121	674		1328	77		9		86
101YRS OR MORE	98	8	29		137	24				24
UNEVENAGED STANDS	32	344	274		651					
TOTAL	4357	2874	21238		28470	1286	75	15688		17050
MIXEDWOOD LAND										
UP TO 20YRS	110	24	1555		1690	56	11	309		376
21YRS - 40YRS	105	9	1540		1655	48		844		892
41YRS - 60YRS	601	519	6671		7792	42	86	2637		2767
61YRS - 80YRS	785	266	4151		5202	314		1619		1933
81YRS -100YRS	337	45	328		711					
101YRS OR MORE										
UNEVENAGED STANDS	12		294		306	70		50		121
TOTAL	1952	866	14540		17359	532	97	5460		6091
HARDWOOD LAND										
UP TO 20YRS	46	9	512		568	247		119		367
21YRS - 40YRS	196	17	1099		1312			635		635
41YRS - 60YRS	467	292	3487		4247	423		1429		1852
61YRS - 80YRS	881	1097	3020		4999	202		1799		2001
81YRS -100YRS	104	208	476		789					
101YRS OR MORE										
UNEVENAGED STANDS	69	268	145		482			21		21
TOTAL	1764	1894	8740		12399	873		4005		4879
ALL FOREST LAND										
UP TO 20YRS	411	138	5943		6492	508	11	2446		2966
21YRS - 40YRS	927	324	6521		7773	337		4496		4834
41YRS - 60YRS	2881	2151	20019		25051	1032	162	13470		14664
61YRS - 80YRS	2668	2023	9814		14505	641		4658		5300
81YRS -100YRS	974	375	1479		2828	77		9		86
101YRS OR MORE	98	8	29		137	24				24
UNEVENAGED STANDS	114	612	713		1440	70		72		142
TOTAL	8075	5635	44519		58230	2692	173	25154		28020

FOREST LAND BY AGE CLASSES	ST. MARY CROWN LAND	ST. MARY LARGE OWNER	ST. MARY SMALL OWNER	ST. MARY M R + P *	ST. MARY TOTAL	GUYSBOROUGH CROWN LAND	GUYSBOROUGH LARGE OWNER	GUYSBOROUGH SMALL OWNER	GUYSBOROUGH M R + P *	GUYSBOROUGH TOTAL	ALL MUNICIPALITIES CROWN LAND	ALL MUNICIPALITIES LARGE OWNER	ALL MUNICIPALITIES SMALL OWNER	ALL MUNICIPALITIES M R + P *	ALL MUNICIPALITIES TOTAL
SOFTWOOD LAND															
UP TO 20YRS	545	306	569		1420	698	28	1809		2536	1702	438	8272		10414
21YRS - 40YRS	2804	255	992		4052	2229	183	3715		6127	5948	736	11606		18291
41YRS - 60YRS	5112	1732	3135		9980	6853	39	6433		13326	14343	3187	28833		46364
61YRS - 80YRS	5099	1680	1949		8730	1292	117	2451		3862	7519	2458	8283		18260
81YRS -100YRS	1783	1300	321		3405	186		145		331	2578	1421	1150		5151
101YRS OR MORE	182	128			311						305	136	29		472
UNEVENAGED STANDS											32	344	274		651
TOTAL	15527	5404	6969		27900	11260	369	14555		26184	32431	8723	58451		99606
MIXEDWOOD LAND															
UP TO 20YRS	116	44	116		276	394	53	532		980	677	133	2512		3324
21YRS - 40YRS	308	87	115		510	231	14	564		810	693	112	3063		3869
41YRS - 60YRS	479	776	686		1942	911	53	1974		2938	2035	1436	11969		15440
61YRS - 80YRS	1919	457	1115		3492	2186	75	1324		3587	5206	799	8210		14216
81YRS -100YRS	792	362	124		1280	83		368		451	1214	408	821		2443
101YRS OR MORE															
UNEVENAGED STANDS		124			124	37		8		46	120	124	353		598
TOTAL	3617	1852	2157		7627	3844	197	4772		8814	9947	3014	26931		39893
HARDWOOD LAND															
UP TO 20YRS	18				18	92	6	264		363	404	16	895		1317
21YRS - 40YRS	396	109	146		652	1329	21	709		2060	1921	148	2590		4660
41YRS - 60YRS	515	362	193		1071	733	11	313		1057	2139	665	5423		8229
61YRS - 80YRS	1281	682	802		2767	1651	51	1427		3130	4016	1831	7051		12899
81YRS -100YRS	744	197	128		1069	861		71		932	1709	405	675		2791
101YRS OR MORE		20			20			21		21		20	21		41
UNEVENAGED STANDS											69	268	166		504
TOTAL	2955	1371	1271		5598	4667	91	2807		7566	10261	3356	16825		30443
ALL FOREST LAND															
UP TO 20YRS	679	350	685		1715	1184	89	2606		3880	2784	589	11681		15055
21YRS - 40YRS	3509	452	1254		5215	3789	219	4989		8998	8564	996	17261		26821
41YRS - 60YRS	6106	2870	4016		12994	8498	104	8720		17323	18518	5289	46226		70034
61YRS - 80YRS	8301	2820	3867		14989	5131	244	5204		10580	16741	5088	23545		45376
81YRS -100YRS	3320	1860	574		5755	1131		584		1715	5502	2235	2648		10387
101YRS OR MORE	182	148			331			21		21	305	157	51		514
UNEVENAGED STANDS		124			124	37		8		46	222	737	793		1753
TOTAL	22099	8628	10398		41126	19772	657	22135		42565	52640	15094	102208		169943

* M R + P # MILITARY RESERVES AND PARKS ALL FIGURES ARE IN TENS OF ACRES

SUBDIVISION 1 AREA IN ACRES BY MUNICIPALITY AND OWNERSHIP CLASS

4

FOREST LAND BY SITE CLASSES	PICTOU CROWN LAND	PICTOU LARGE OWNER	PICTOU SMALL OWNER	PICTOU M R + P *	PICTOU TOTAL	ANTIGONISH CROWN LAND	ANTIGONISH LARGE OWNER	ANTIGONISH SMALL OWNER	ANTIGONISH M R + P *	ANTIGONISH TOTAL
SOFTWOOD LAND										
1			32		32					
2										
3	27	51	5326		5405	42		2479		2521
4	3506	2330	15267		21103	1146	75	12050		13272
5	823	492	526		1843	97		1157		1255
6			85		85					
TOTAL	4357	2874	21238		28470	1286	75	15688		17050
MIXEDWOOD LAND										
1										
2										
3			792		792			38		38
4	1909	776	13470		16157	461	97	5273		5833
5	43	89	277		409	70		148		219
6										
TOTAL	1952	866	14540		17359	532	97	5460		6091
HARDWOOD LAND										
1										
2										
3			28		28			85		85
4	1718	1803	8559		12082	873		3867		4741
5	45	90	151		288			52		52
6										
TOTAL	1764	1894	8740		12399	873		4005		4879
ALL FOREST LAND										
1			32		32					
2										
3	27	51	6148		6227	42		2603		2645
4	7134	4910	37298		49343	2482	173	21191		23847
5	912	672	956		2541	168		1359		1527
6			85		85					
TOTAL	8075	5635	44519		58230	2692	173	25154		28020

FOREST LAND BY SITE CLASSES	ST. MARY CROWN LAND	ST. MARY LARGE OWNER	ST. MARY SMALL OWNER	ST. MARY M R + P *	ST. MARY TOTAL	GUYSBOROUGH CROWN LAND	GUYSBOROUGH LARGE OWNER	GUYSBOROUGH SMALL OWNER	GUYSBOROUGH M R + P *	GUYSBOROUGH TOTAL
SOFTWOOD LAND										
1										
2										
3	398	307	205		911	9	4	926		940
4	8940	4107	4441		17490	8344	215	9985		18545
5	6029	956	2259		9244	2790	148	3460		6399
6	158	32	62		254	115		183		298
TOTAL	15527	5404	6969		27900	11260	369	14555		26184
MIXEDWOOD LAND										
1										
2								26		26
3	9		12		21			42		42
4	3454	1795	2003		7253	3583	165	4555		8304
5	153	56	142		352	261	32	147		440
6										
TOTAL	3617	1852	2157		7627	3844	197	4772		8814
HARDWOOD LAND										
1										
2										
3	33				33	82		312		394
4	2700	1371	1261		5333	4585	91	2361		7037
5	221		10		232			133		133
6										
TOTAL	2955	1371	1271		5598	4667	91	2807		7566
ALL FOREST LAND										
1										
2								26		26
3	440	307	218		966	91	4	1281		1377
4	15095	7275	7706		30077	16513	472	16902		33888
5	6404	1012	2411		9829	3051	180	3741		6974
6	158	32	62		254	115		183		298
TOTAL	22099	8628	10398		41126	19772	657	22135		42565

FOREST LAND BY SITE CLASSES	ALL MUNICIPALITIES CROWN LAND	ALL MUNICIPALITIES LARGE OWNER	ALL MUNICIPALITIES SMALL OWNER	ALL MUNICIPALITIES M R + P *	ALL MUNICIPALITIES TOTAL
SOFTWOOD LAND					
1			32		32
2					
3	476	364	8938		9779
4	21938	6729	41744		70413
5	9741	1597	7404		18743
6	274	32	331		638
TOTAL	32431	8723	58451		99606
MIXEDWOOD LAND					
1					
2			26		26
3	9		886		895
4	9409	2835	25303		37548
5	528	178	715		1422
6					
TOTAL	9947	3014	26931		39893
HARDWOOD LAND					
1					
2					
3	115		426		541
4	9878	3266	16050		29194
5	267	90	349		707
6					
TOTAL	10261	3356	16825		30443
ALL FOREST LAND					
1			32		32
2			26		26
3	602	364	10251		11217
4	41226	12831	83098		137156
5	10537	1866	8468		20873
6	274	32	331		638
TOTAL	52640	15094	102208		169943

* M R + P # MILITARY RESERVES AND PARKS

ALL FIGURES ARE IN TENS OF ACRES

E S T I M A T E – GROSS CUBIC FT. VOLUMES ON FORESTED LAND BY COVER TYPE, DENSITY CLASSES, DBH GROUP AND OWNERSHIP CLASS

MUNICIPALITY – PICTOU

5

5

COVER TYPE AND DENSITY CLASS	O W N E R S H I P C L A S S																			
	C R O W N L A N D				L A R G E O W N E R S				S M A L L O W N E R S				MILITARY RESERVES AND PARKS				T O T A L			
	4 – 6 DBH	7 – 9 DBH	10 + UP DBH	TOTAL	4 – 6 DBH	7 – 9 DBH	10 + UP DBH	TOTAL	4 – 6 DBH	7 – 9 DBH	10 + UP DBH	TOTAL	4 – 6 DBH	7 – 9 DBH	10 + UP DBH	TOTAL	4 – 6 DBH	7 – 9 DBH	10 + UP DBH	TOTAL
SOFTWOOD LAND																				
UP TO 40%	417	142	257	817	100	218	20	339	1694	1810	1077	4582					2212	2172	1355	5739
41% – 60%	1378	1165	556	3099	925	1146	1183	3254	6876	8225	7025	22127					9179	10537	8764	28481
61% – 80%	6801	9377	7565	23744	5228	7067	6496	18792	31039	39827	41227	112094					43069	56272	55289	154631
81% –100%	4561	4590	2579	11731	4640	5101	4357	14099	19726	23849	19167	62744					28929	33541	26104	88575
OVERSTOCKED	467	431	349	1248					5092	4094	2623	11810					5560	4525	2973	13059
TOTAL	13625	15707	11308	40641	10895	13533	12058	36486	64429	77808	71121	213359					88950	107049	94487	290487
MIXEDWOOD LAND																				
UP TO 40%	246	219	390	856					560	549	578	1688					807	769	968	2545
41% – 60%	799	969	869	2638	530	594	397	1523	3424	3947	3694	11065					4754	5510	4961	15226
61% – 80%	3626	4960	4588	13176	1159	2112	2686	5958	35945	38502	39771	114219					40732	45575	47046	133354
81% –100%	1812	2063	1713	5589	119	184		303	7953	9640	10044	27638					9885	11887	11757	33530
OVERSTOCKED									977	669	257	1904					977	669	257	1904
TOTAL	6485	8213	7562	22261	1809	2891	3084	7785	48861	53308	54345	156515					57157	64412	64992	186562
HARDWOOD LAND																				
UP TO 40%	59	124		184	9	17		27	43	65	30	140					113	207	31	351
41% – 60%	742	813	666	2222	812	1149	2622	4584	2694	3097	3193	8985					4248	5061	6482	15793
61% – 80%	4508	4793	4676	13977	3047	2759	5235	11042	22654	20194	22106	64955					30210	27746	32018	89976
81% –100%	284	311	837	1433	380	300	417	1098	2630	2832	4381	9844					3295	3445	5635	12376
OVERSTOCKED	48	32	20	101													48	32	20	101
TOTAL	5642	6076	6200	17919	4250	4227	8275	16753	28023	26190	29712	83925					37916	36493	44188	118599
ALL FOREST LAND																				
UP TO 40%	723	487	647	1858	110	235	20	366	2298	2426	1687	6411					3132	3149	2355	8636
41% – 60%	2919	2948	2092	7960	2268	2890	4203	9362	12994	15270	13912	42178					18182	21110	20208	59501
61% – 80%	14936	19131	16831	50898	9436	11938	14419	35794	89639	98524	103104	291268					114012	129594	134355	377962
81% –100%	6658	6965	5129	18753	5139	5586	4775	15501	30311	36322	33593	100227					42110	48874	43498	134482
OVERSTOCKED	516	464	370	1350					6069	4763	2881	13714					6586	5227	3251	15064
TOTAL	25754	29997	25071	80822	16955	20651	23418	61025	141314	157306	155179	453800					184024	207955	203668	595648

ALL FIGURES ARE IN THOUSANDS CU.FT.

F S T I M A T E - GROSS CUBIC FT. VOLUMES ON FORESTED LAND BY COVER TYPE, AGE CLASSES, DBH GROUP AND OWNERSHIP CLASSES

MUNICIPALITY - PICTOU

6

6

COVER TYPE AND AGE CLASS	O W N E R S H I P C L A S S																			
	C R O W N L A N D				L A R G E O W N E R S				S M A L L O W N E R S				MILITARY RESERVES AND PARKS				T O T A L			
	4 - 6 DBH	7 - 9 DBH	10 + UP DBH	TOTAL	4 - 6 DBH	7 - 9 DBH	10 + UP DBH	TOTAL	4 - 6 DBH	7 - 9 DBH	10 + UP DBH	TOTAL	4 - 6 DBH	7 - 9 DBH	10 + UP DBH	TOTAL	4 - 6 DBH	7 - 9 DBH	10 + UP DBH	TOTAL
SOFTWOOD LAND																				
UP TO 20YRS	98	47	258	404	129	108	45	283	1037	735	815	2587					1265	891	1119	3275
21YRS - 40YRS	931	386	313	1631	1010	909	760	2681	10099	6970	3840	20910					12041	8267	4914	25224
41YRS - 60YRS	6363	5742	3551	15657	5675	7341	5515	18531	38979	50750	43483	133213					51018	63834	52550	167403
61YRS - 80YRS	4116	5852	5056	15025	2529	3016	3854	9399	10816	13690	12787	37294					17462	22559	21698	61720
81YRS -100YRS	1658	2862	1555	6076	629	1009	835	2474	2647	4222	7877	14747					4935	8094	10269	23299
101YRS OR MORE	378	702	357	1438	33	131	207	372	58	171	473	702					470	1005	1038	2514
UNEVENAGED STANDS	79	112	214	405	887	1016	838	2742	790	1266	1844	3901					1757	2395	2897	7050
TOTAL	13625	15707	11308	40641	10895	13533	12058	36486	64429	77808	71121	213359					88950	107049	94487	290487
MIXEDWOOD LAND																				
UP TO 20YRS	33	39		73	14		31	45	629	373	224	1228					677	413	256	1347
21YRS - 40YRS	193	87	23	305	8			8	3798	2624	1442	7865					4000	2712	1466	8179
41YRS - 60YRS	1872	1916	2181	5970	875	1249	1155	3280	27251	26854	26454	80560					29999	30020	29791	89811
61YRS - 80YRS	2902	4131	3873	10907	767	1415	1674	3858	15607	21107	23381	60097					19277	26655	28930	74863
81YRS -100YRS	1414	1983	1452	4850	143	226	221	591	935	1507	2036	4479					2493	3716	3710	9921
101YRS OR MORE																				
UNEVENAGED STANDS	68	53	31	153					639	839	805	2284					707	893	836	2437
TOTAL	6485	8213	7562	22261	1809	2891	3084	7785	48861	53308	54345	156515					57157	64412	64992	186562
HARDWOOD LAND																				
UP TO 20YRS	48	32	20	101					154	182	582	919					203	215	602	1021
21YRS - 40YRS	421	262	429	1113	81	20		101	2392	928	626	3948					2895	1211	1056	5163
41YRS - 60YRS	2487	1457	1189	5134	1142	937	824	2905	13401	9588	9196	32186					17031	11982	11211	40225
61YRS - 80YRS	2271	3348	3683	9302	2328	2352	4609	9290	10485	13496	14501	38483					15084	19196	22795	57076
81YRS -100YRS	280	647	524	1453	248	415	1205	1869	1297	1661	3783	6741					1826	2724	5513	10064
101YRS OR MORE																				
UNEVENAGED STANDS	132	328	352	813	449	501	1635	2586	292	333	1020	1646					874	1163	3009	5047
TOTAL	5642	6076	6200	17919	4250	4227	8275	16753	28023	26190	29712	83925					37916	36493	44188	118599
ALL FOREST LAND																				
UP TO 20YRS	181	120	278	579	143	108	76	329	1821	1291	1622	4736					2146	1520	1978	5645
21YRS - 40YRS	1546	737	767	3050	1101	930	760	2792	16290	10524	5909	32724					18938	12191	7437	38567
41YRS - 60YRS	10723	9116	6922	26762	7693	9528	7496	24717	79632	87193	79134	245960					98049	105838	93553	297440
61YRS - 80YRS	9290	13332	12614	35236	5625	6784	10138	22548	36908	48294	50670	135874					51824	68411	73423	193660
81YRS -100YRS	3353	5493	3533	12380	1022	1650	2262	4935	4879	7391	13697	25968					9255	14536	19493	43285
101YRS OR MORE	378	702	357	1438	33	131	207	372	58	171	473	702					470	1005	1038	2514
UNEVENAGED STANDS	280	494	597	1372	1336	1518	2474	5328	1722	2439	3670	7833					3339	4452	6743	14535
TOTAL	25754	29997	25071	80822	16955	20651	23418	61025	141314	157306	155179	453800					184024	207955	203668	595648

ALL FIGURES ARE IN THOUSANDS CU.FT.

E S T I M A T E - GROSS CUBIC FT. VOLUMES ON FORESTED LAND BY COVER TYPE, SITE CLASSES, DBH GROUP AND OWNERSHIP CLASSES

MUNICIPALITY - PICTOU

7

7

O W N E R S H I P C L A S S

COVER TYPE AND SITE CLASS	CROWN LAND 4 - 6 DBH	CROWN LAND 7 - 9 DBH	CROWN LAND 10 + UP DBH	CROWN LAND TOTAL	LARGE OWNERS 4 - 6 DBH	LARGE OWNERS 7 - 9 DBH	LARGE OWNERS 10 + UP DBH	LARGE OWNERS TOTAL	SMALL OWNERS 4 - 6 DBH	SMALL OWNERS 7 - 9 DBH	SMALL OWNERS 10 + UP DBH	SMALL OWNERS TOTAL	MILITARY RESERVES AND PARKS 4 - 6 DBH	MILITARY RESERVES AND PARKS 7 - 9 DBH	MILITARY RESERVES AND PARKS 10 + UP DBH	MILITARY RESERVES AND PARKS TOTAL	TOTAL 4 - 6 DBH	TOTAL 7 - 9 DBH	TOTAL 10 + UP DBH	TOTAL TOTAL
SOFTWOOD LAND																				
1									51	100	523	674					51	100	523	674
2																				
3	36	46		82	156	526	1104	1787	8584	9485	9001	27070					8776	10058	10105	28941
4	11523	13223	10399	35146	9860	11833	10334	32028	54349	67300	60930	182579					75733	92357	81664	249755
5	2065	2437	908	5412	877	1172	619	2670	1443	908	665	3017					4387	4518	2193	11100
6									1	13		15					1	13		15
TOTAL	13625	15707	11308	40641	10895	13533	12058	36486	64429	77808	71121	213359					88950	107049	94487	290487
MIXEDWOOD LAND																				
1																				
2																				
3									934	1162	1093	3189					934	1162	1093	3189
4	6393	8059	7417	21870	1676	2728	2861	7266	47395	51586	52611	151592					55465	62374	62890	180730
5	92	153	144	390	133	162	222	518	531	559	641	1732					757	876	1008	2642
6																				
TOTAL	6485	8213	7562	22261	1809	2891	3084	7785	48861	53308	54345	156515					57157	64412	64992	186562
HARDWOOD LAND																				
1																				
2																				
3									64	45	155	265					64	45	155	265
4	5634	6037	6099	17772	3988	4122	8275	16387	27647	25952	29388	82988					37270	36112	43764	117147
5	7	39	100	147	261	104		365	311	192	167	671					581	335	268	1185
6																				
TOTAL	5642	6076	6200	17919	4250	4227	8275	16753	28023	26190	29712	83925					37916	36493	44188	118599
ALL FOREST LAND																				
1									51	100	523	674					51	100	523	674
2																				
3	36	46		82	156	526	1104	1787	9582	10693	10250	30526					9775	11266	11354	32396
4	23551	27319	23917	74789	15525	18685	21471	55682	129391	144839	142930	417161					168469	190844	188319	547633
5	2166	2630	1153	5950	1273	1439	841	3554	2286	1660	1475	5422					5726	5730	3470	14927
6									1	13		15					1	13		15
TOTAL	25754	29997	25071	80822	16955	20651	23418	61025	141314	157306	155179	453800					184024	207955	203668	595648

ALL FIGURES ARE IN THOUSANDS CU.FT.

E S T I M A T E - GROSS CUBIC FT. VOLUMES ON FORESTED LAND BY SPECIES, DBH GROUP AND OWNERSHIP CLASS

MUNICIPALITY - PICTOU

8

8

O W N E R S H I P C L A S S

SPECIES	CROWN LAND 4 - 6 DBH	CROWN LAND 7 - 9 DBH	CROWN LAND 10 + UP DBH	CROWN LAND TOTAL	LARGE OWNERS 4 - 6 DBH	LARGE OWNERS 7 - 9 DBH	LARGE OWNERS 10 + UP DBH	LARGE OWNERS TOTAL	SMALL OWNERS 4 - 6 DBH	SMALL OWNERS 7 - 9 DBH	SMALL OWNERS 10 + UP DBH	SMALL OWNERS TOTAL	MILITARY RESERVES AND PARKS 4 - 6 DBH	MILITARY RESERVES AND PARKS 7 - 9 DBH	MILITARY RESERVES AND PARKS 10 + UP DBH	MILITARY RESERVES AND PARKS TOTAL	TOTAL 4 - 6 DBH	TOTAL 7 - 9 DBH	TOTAL 10 + UP DBH	TOTAL TOTAL
WHITE SPRUCE	360	447	228	1036	868	1228	1475	3572	18160	24504	25875	68541					19389	26180	27579	73149
SPRUCE-RED + BLACK	8065	10272	8941	27279	4043	5978	6174	16195	18570	25889	24206	68665					30678	42140	39322	112140
FIR	8967	8074	3379	20422	6284	7545	4154	17984	51514	46550	17783	115848					66766	62171	25317	154255
HEMLOCK			58	58		36	65	101	4030	9469	20164	33663					4030	9505	20287	33823
WHITE PINE	61	381	1534	1976	23	62	1148	1234	222	456	3676	4355					307	900	6359	7567
RED PINE									287	341	183	812					287	341	183	812
LARCH	256	129	31	417	190	330	310	830	603	596	360	1560					1050	1055	701	2808
JACK PINE									1			1					1			1
SCOTCH PINE																				
CEDAR																				
TOTAL SOFTWOODS	17710	19305	14173	51189	11410	15181	13328	39919	93391	107807	92250	293449					122512	142295	119751	384559
SUGAR MAPLE	1974	2018	3026	7019	1951	1879	4655	8485	9503	11138	17311	37953					13428	15036	24993	53458
RED MAPLE	2804	5253	3424	11482	2368	2073	1544	5986	15077	18071	17510	50659					20250	25398	22479	68128
YELLOW BIRCH	2063	2374	3068	7506	848	898	3066	4813	5697	6728	11041	23467					8609	10001	17176	35787
WHITE BIRCH	481	655	659	1796	160	238	233	633	1687	1591	1071	4350					2329	2485	1965	6780
OAK									66	32	352	451					66	32	352	451
ASPEN									6372	6654	9509	22535					6372	6654	9509	22535
GREY BIRCH		20	40	61	23			23	4091	223	20	4335					4115	244	60	4420
WHITE ASH	20	8	114	143					731	854	938	2524					752	863	1053	2668
BLACK ASH									10		25	35					10		25	35
CHERRY									17	8		26					17	8		26
ELM			283	283					64	104	480	649					64	104	764	932
BEECH	677	351	279	1308	179	380	590	1150	3977	3684	4549	12212					4835	4416	5419	14671
BALSAM POPLAR									13			13					13			13
MISCELLANEOUS	19	11		30	16			16	614	403	119	1136					649	414	119	1182
TOTAL HARDWOODS	8043	10691	10897	29633	5545	5470	10089	21105	47922	49499	62929	160350					61512	65660	83917	211090
TOTAL FOREST LAND	25754	29997	25071	80822	16955	20651	23418	61025	141314	157306	155179	453800					184024	207955	203668	595649

ALL FIGURES ARE IN THOUSANDS CU. FT.

E S T I M A T E - MERCH CUBIC FT. VOLUMES ON FORESTED LAND BY COVER TYPE, DENSITY CLASSES, DBH GROUP AND OWNERSHIP CLASS

MUNICIPALITY - PICTOU

9

9

O W N E R S H I P C L A S S

COVER TYPE AND DENSITY CLASS	CROWN LAND 4 - 6 DBH	CROWN LAND 7 - 9 DBH	CROWN LAND 10 + UP DBH	CROWN LAND TOTAL	LARGE OWNERS 4 - 6 DBH	LARGE OWNERS 7 - 9 DBH	LARGE OWNERS 10 + UP DBH	LARGE OWNERS TOTAL	SMALL OWNERS 4 - 6 DBH	SMALL OWNERS 7 - 9 DBH	SMALL OWNERS 10 + UP DBH	SMALL OWNERS TOTAL	MILITARY RESERVES AND PARKS 4 - 6 DBH	MILITARY RESERVES AND PARKS 7 - 9 DBH	MILITARY RESERVES AND PARKS 10 + UP DBH	MILITARY RESERVES AND PARKS TOTAL	TOTAL 4 - 6 DBH	TOTAL 7 - 9 DBH	TOTAL 10 + UP DBH	TOTAL TOTAL
SOFTWOOD LAND																				
UP TO 40%	284	122	228	635	68	190	17	277	1164	1547	965	3678					1518	1860	1212	4591
41% - 60%	948	1003	504	2456	639	981	1062	2683	4684	7041	6270	17995					6272	9025	7837	23136
61% - 80%	4678	8067	6874	19620	3666	6095	5872	15634	21258	34127	37046	92432					29603	48291	49794	127688
81% -100%	3220	3950	2321	9492	3216	4391	3927	11535	13588	20427	17244	51260					20025	28769	23493	72288
OVERSTOCKED	322	368	321	1011					3352	3506	2347	9206					3674	3874	2668	10217
TOTAL	9454	13512	10250	33217	7591	11659	10880	30131	44048	66650	63875	174573					61094	91822	85005	237922
MIXEDWOOD LAND																				
UP TO 40%	155	182	345	684					357	462	507	1327					513	645	852	2012
41% - 60%	541	816	757	2116	352	500	344	1197	2233	3334	3256	8824					3127	4651	4358	12138
61% - 80%	2425	4170	4033	10629	779	1776	2401	4957	23340	32550	35009	90900					26544	38497	41445	106488
81% -100%	1235	1739	1511	4487	82	156		239	5262	8162	8896	22321					6580	10058	10408	27047
OVERSTOCKED									643	566	224	1434					643	566	224	1434
TOTAL	4358	6910	6648	17917	1215	2433	2746	6395	31837	45075	47895	124808					37410	54419	57289	149120
HARDWOOD LAND																				
UP TO 40%	39	103		142	7	14		21	30	54	26	111					76	171	26	275
41% - 60%	474	675	574	1724	497	947	2220	3666	1726	2586	2716	7029					2698	4210	5511	12420
61% - 80%	2749	3960	3992	10702	1852	2284	4422	8558	13891	16741	18924	49557					18493	22986	27339	68819
81% -100%	164	256	699	1120	233	254	369	858	1643	2347	3753	7743					2041	2858	4822	9722
OVERSTOCKED	33	26	17	77													33	26	17	77
TOTAL	3462	5022	5283	13768	2590	3501	7012	13104	17291	21730	25420	64441					23344	30254	37716	91315
ALL FOREST LAND																				
UP TO 40%	479	408	574	1462	75	204	17	298	1553	2064	1499	5117					2108	2677	2091	6878
41% - 60%	1964	2496	1836	6297	1490	2429	3627	7547	8644	12962	12243	33849					12099	17888	17707	47695
61% - 80%	9853	16198	14901	40953	6298	10157	12696	29151	58489	83419	90980	232890					74641	109775	118578	302996
81% -100%	4621	5946	4532	15100	3532	4803	4297	12633	20493	30937	29894	81324					28647	41687	38724	109058
OVERSTOCKED	356	395	338	1089					3996	4072	2571	10640					4352	4467	2910	11729
TOTAL	17275	25445	22182	64903	11397	17595	20639	49631	93176	133456	137190	363823					121849	176496	180012	478358

ALL FIGURES ARE IN THOUSANDS CU.FT.

E S T I M A T E - MERCH CUBIC FT. VOLUMES ON FORESTED LAND BY COVER TYPE, AGE CLASSES, DBH GROUP AND OWNERSHIP CLASSES

MUNICIPALITY - PICTOU

10

10

COVER TYPE AND AGE CLASS	CROWN LAND 4 - 6 DBH	CROWN LAND 7 - 9 DBH	CROWN LAND 10 + UP DBH	CROWN LAND TOTAL	LARGE OWNERS 4 - 6 DBH	LARGE OWNERS 7 - 9 DBH	LARGE OWNERS 10 + UP DBH	LARGE OWNERS TOTAL	SMALL OWNERS 4 - 6 DBH	SMALL OWNERS 7 - 9 DBH	SMALL OWNERS 10 + UP DBH	SMALL OWNERS TOTAL	MILITARY RESERVES AND PARKS 4 - 6 DBH	MILITARY RESERVES AND PARKS 7 - 9 DBH	MILITARY RESERVES AND PARKS 10 + UP DBH	MILITARY RESERVES AND PARKS TOTAL	TOTAL 4 - 6 DBH	TOTAL 7 - 9 DBH	TOTAL 10 + UP DBH	TOTAL TOTAL
SOFTWOOD LAND																				
UP TO 20YRS	65	38	228	333	92	90	40	223	676	624	739	2040					835	753	1008	2597
21YRS - 40YRS	635	330	276	1241	685	778	666	2129	6787	5975	3439	16202					8107	7084	4381	19574
41YRS - 60YRS	4401	4930	3200	12533	3919	6324	4974	15218	26786	43486	39040	109312					35107	54741	47215	137064
61YRS - 80YRS	2852	5032	4606	12491	1788	2602	3513	7904	7437	11748	11494	30680					12077	19384	19614	51076
81YRS -100YRS	1179	2473	1415	5068	450	878	761	2090	1784	3589	7089	12463					3414	6941	9265	19622
101YRS OR MORE	269	611	326	1207	25	113	188	326	37	145	413	596					332	870	928	2131
UNEVENAGED STANDS	50	94	195	341	629	870	736	2237	538	1079	1658	3276					1218	2045	2591	5855
TOTAL	9454	13512	10250	33217	7591	11659	10880	30131	44048	66650	63875	174573					61094	91822	85005	237922
MIXEDWOOD LAND																				
UP TO 20YRS	17	32		50	10		28	38	389	316	197	903					417	348	226	993
21YRS - 40YRS	126	75	22	224	4			4	2382	2234	1278	5895					2512	2310	1300	6123
41YRS - 60YRS	1254	1616	1920	4791	579	1057	1017	2653	17649	22716	23306	63672					19482	25390	26244	71118
61YRS - 80YRS	1951	3467	3381	8800	522	1186	1501	3211	10364	17829	20639	48833					12838	22483	25523	60845
81YRS -100YRS	966	1672	1297	3936	99	189	198	487	626	1272	1776	3676					1692	3134	3272	8100
101YRS OR MORE																				
UNEVENAGED STANDS	41	45	26	113					424	706	696	1826					465	751	722	1940
TOTAL	4358	6910	6648	17917	1215	2433	2746	6395	31837	45075	47895	124808					37410	54419	57289	149120
HARDWOOD LAND																				
UP TO 20YRS	33	26	17	77					97	152	500	749					131	178	517	827
21YRS - 40YRS	245	215	367	829	34	17		52	1378	788	556	2723					1659	1021	924	3605
41YRS - 60YRS	1461	1195	1006	3664	703	786	708	2199	8078	7938	7929	23946					10243	9921	9644	29810
61YRS - 80YRS	1459	2773	3150	7383	1418	1941	3923	7283	6719	11202	12367	30289					9597	15917	19440	44955
81YRS -100YRS	176	537	447	1160	172	343	1011	1528	848	1372	3224	5445					1197	2253	4683	8134
101YRS OR MORE																				
UNEVENAGED STANDS	84	273	294	652	260	412	1368	2041	169	276	841	1287					514	962	2505	3981
TOTAL	3462	5022	5283	13768	2590	3501	7012	13104	17291	21730	25420	64441					23344	30254	37716	91315
ALL FOREST LAND																				
UP TO 20YRS	117	98	245	461	103	90	68	262	1163	1092	1437	3693					1384	1281	1751	4418
21YRS - 40YRS	1007	621	666	2296	724	795	666	2186	10548	8998	5273	24821					12280	10416	6606	29303
41YRS - 60YRS	7118	7743	6128	20989	5202	8169	6700	20071	52513	74141	70276	196931					64834	90053	83105	237992
61YRS - 80YRS	6263	11273	11138	28675	3729	5730	8938	18398	24521	40780	44501	109803					34513	57785	64578	156877
81YRS -100YRS	2322	4683	3160	10166	722	1411	1971	4105	3259	6235	12090	21585					6304	12330	17221	35857
101YRS OR MORE	269	611	326	1207	25	113	188	326	37	145	413	596					332	870	928	2131
UNEVENAGED STANDS	176	413	517	1107	890	1283	2105	4279	1131	2061	3196	6390					2199	3758	5819	11777
TOTAL	17275	25445	22182	64903	11397	17595	20639	49631	93176	133456	137190	363823					121849	176496	180012	478358

ALL FIGURES ARE IN THOUSANDS CU.FT.

E S T I M A T E - MERCH CUBIC FT. VOLUMES ON FORESTED LAND BY COVER TYPE, SITE CLASSES, DBH GROUP AND OWNERSHIP CLASSES

MUNICIPALITY - PICTOU

11

11

O W N E R S H I P C L A S S

COVER TYPE AND SITE CLASS	CROWN LAND 4 - 6 DBH	CROWN LAND 7 - 9 DBH	CROWN LAND 10 + UP DBH	CROWN LAND TOTAL	LARGE OWNERS 4 - 6 DBH	LARGE OWNERS 7 - 9 DBH	LARGE OWNERS 10 + UP DBH	LARGE OWNERS TOTAL	SMALL OWNERS 4 - 6 DBH	SMALL OWNERS 7 - 9 DBH	SMALL OWNERS 10 + UP DBH	SMALL OWNERS TOTAL	MILITARY RESERVES AND PARKS 4 - 6 DBH	MILITARY RESERVES AND PARKS 7 - 9 DBH	MILITARY RESERVES AND PARKS 10 + UP DBH	MILITARY RESERVES AND PARKS TOTAL	TOTAL 4 - 6 DBH	TOTAL 7 - 9 DBH	TOTAL 10 + UP DBH	TOTAL TOTAL
SOFTWOOD LAND																				
1									36	85	477	600					36	85	477	600
2																				
3	25	39		64	114	454	999	1568	5948	8118	8061	22128					6088	8613	9060	23763
4	7986	11350	9422	28759	6853	10195	9323	26372	37088	57650	54731	149471					51929	79196	73477	204603
5	1442	2122	827	4392	623	1009	557	2190	972	783	604	2359					3038	3914	1989	8942
6										11		12						11		12
TOTAL	9454	13512	10250	33217	7591	11659	10880	30131	44048	66650	63875	174573					61094	91822	85005	237922
MIXEDWOOD LAND																				
1																				
2																				
3									606	992	959	2557					606	992	959	2557
4	4295	6778	6516	17590	1118	2295	2550	5964	30880	43611	46370	120862					36294	52685	55437	144417
5	63	131	132	327	96	138	195	430	350	472	564	1387					509	742	892	2144
6																				
TOTAL	4358	6910	6648	17917	1215	2433	2746	6395	31837	45075	47895	124808					37410	54419	57289	149120
HARDWOOD LAND																				
1																				
2																				
3									42	36	124	203					42	36	124	203
4	3457	4988	5198	13644	2444	3416	7012	12873	17047	21532	25154	63734					22949	29937	37365	90252
5	5	33	84	123	146	85		231	201	160	141	503					352	279	226	858
6																				
TOTAL	3462	5022	5283	13768	2590	3501	7012	13104	17291	21730	25420	64441					23344	30254	37716	91315
ALL FOREST LAND																				
1									36	85	477	600					36	85	477	600
2																				
3	25	39		64	114	454	999	1568	6597	9147	9145	24890					6737	9642	10144	26524
4	15739	23117	21137	59994	10416	15906	18886	45209	85017	122794	126256	334068					111173	161819	166280	439273
5	1510	2287	1045	4843	866	1233	752	2852	1523	1415	1310	4250					3900	4937	3109	11946
6										11		12						11		12
TOTAL	17275	25445	22182	64903	11397	17595	20639	49631	93176	133456	137190	363823					121849	176496	180012	478358

ALL FIGURES ARE IN THOUSANDS CU.FT.

SPECIES	OWNERSHIP CLASS: CROWN LAND 4 – 6 DBH	7 – 9 DBH	10 + UP DBH	TOTAL	LARGE OWNERS 4 – 6 DBH	7 – 9 DBH	10 + UP DBH	TOTAL	SMALL OWNERS 4 – 6 DBH	7 – 9 DBH	10 + UP DBH	TOTAL	MILITARY RESERVES AND PARKS 4 – 6 DBH	7 – 9 DBH	10 + UP DBH	TOTAL	TOTAL 4 – 6 DBH	7 – 9 DBH	10 + UP DBH	TOTAL
WHITE SPRUCE	254	384	205	843	624	1054	1329	3009	12743	20980	23303	57028					13622	22419	24838	60881
SPRUCE-RED + BLACK	5810	8913	8149	22873	2961	5194	5603	13759	13244	22477	21999	57721					22016	36586	35752	94355
FIR	6057	6933	3080	16070	4294	6494	3782	14571	34714	40016	16149	90880					45066	53444	23012	121522
HEMLOCK			52	52		30	59	89	2738	7926	18173	28839					2738	7957	18285	28981
WHITE PINE	45	358	1450	1854	20	58	1085	1164	176	427	3462	4066					242	843	5999	7085
RED PINE									225	319	173	717					225	319	173	717
LARCH	171	112	28	311	141	286	280	708	431	516	325	1273					744	915	634	2293
JACK PINE																				
SCOTCH PINE																				
CEDAR																				
TOTAL SOFTWOODS	12338	16701	12966	42006	8042	13119	12140	33302	64275	92664	83588	240528					84656	122486	108695	315838
SUGAR MAPLE	1157	1650	2556	5365	1166	1540	3929	6636	5752	9105	14575	29433					8077	12296	21061	41434
RED MAPLE	1788	4300	2903	8992	1452	1693	1307	4453	9245	14790	14833	38869					12486	20784	19044	52315
YELLOW BIRCH	1281	1936	2599	5818	501	736	2565	3804	3380	5506	9307	18194					5164	8179	14473	27816
WHITE BIRCH	292	538	560	1390	98	193	198	490	1035	1300	908	3244					1427	2031	1666	5125
OAK									36	26	291	354					36	26	291	354
ASPEN									4098	5754	8501	18354					4098	5754	8501	18354
GREY BIRCH		16	34	51	12			12	2080	179	17	2276					2092	195	51	2340
WHITE ASH	9	6	97	113					449	698	797	1944					458	705	894	2057
BLACK ASH									5		21	27					5		21	27
CHERRY									9	6		16					9	6		16
ELM			228	228					42	86	392	521					42	86	621	749
BEECH	392	286	237	915	115	311	497	924	2393	3007	3855	9255					2900	3605	4590	11095
BALSAM POPLAR									9			9					9			9
MISCELLANEOUS	14	9		23	9			9	363	330	101	794					387	341	101	828
TOTAL HARDWOODS	4936	8743	9216	22896	3355	4475	8498	16328	28901	40791	53602	123294					37192	54010	71317	162520
TOTAL FOREST LAND	17275	25445	22182	64903	11397	17595	20639	49631	93176	133456	137190	363823					121849	176496	180012	478358

ALL FIGURES ARE IN THOUSANDS CU. FT.

E S T I M A T E - GROSS CUBIC FT. VOLUMES ON FORESTED LAND BY COVER TYPE, DENSITY CLASSES, DBH GROUP AND OWNERSHIP CLASS

MUNICIPALITY - ANTIGONISH

13

COVER TYPE AND DENSITY CLASS	O W N E R S H I P C L A S S																			
	C R O W N L A N D				L A R G E O W N E R S				S M A L L O W N E R S				MILITARY RESERVES AND PARKS				T O T A L			
	4 - 6 DBH	7 - 9 DBH	10 + UP DBH	TOTAL	4 - 6 DBH	7 - 9 DBH	10 + UP DBH	TOTAL	4 - 6 DBH	7 - 9 DBH	10 + UP DBH	TOTAL	4 - 6 DBH	7 - 9 DBH	10 + UP DBH	TOTAL	4 - 6 DBH	7 - 9 DBH	10 + UP DBH	TOTAL
SOFTWOOD LAND																				
UP TO 40%	12	14		26					823	765	835	2424					836	779	835	2451
41% - 60%	156	164	328	649	3	15		18	3261	3288	2664	9214					3421	3468	2992	9882
61% - 80%	2454	2984	3008	8448	119	286	129	535	15862	20195	16445	52502					18436	23466	19583	61486
81% -100%	635	707	349	1691					23302	28791	23286	75380					23937	29498	23635	77071
OVERSTOCKED									2333	1651	1198	5183					2333	1651	1198	5183
TOTAL	3259	3870	3686	10816	122	302	129	554	45583	54691	44430	144705					48965	58864	48245	156076
MIXEDWOOD LAND																				
UP TO 40%									137	110	116	365					137	110	116	365
41% - 60%	5	43	23	72					1153	1512	1283	3950					1159	1555	1307	4022
61% - 80%	928	1659	837	3425	229	363	200	794	7580	10357	11792	29730					8739	12381	12830	33951
81% -100%	525	350	232	1108					5878	6441	5083	17403					6403	6792	5315	18511
OVERSTOCKED									667	367	174	1209					667	367	174	1209
TOTAL	1459	2053	1093	4606	229	363	200	794	15418	18790	18450	52659					17107	21207	19745	58061
HARDWOOD LAND																				
UP TO 40%	5	39	24	70					11	40	144	196					17	79	169	266
41% - 60%	29	43	279	352					313	241	713	1267					342	285	992	1620
61% - 80%	200	484	2242	2927					7320	8215	11965	27501					7520	8700	14207	30429
81% -100%	966	924	854	2745					2490	2893	3618	9002					3457	3817	4473	11748
OVERSTOCKED	383	200	423	1007					474	46		520					857	246	423	1527
TOTAL	1585	1691	3826	7103					10610	11436	16441	38488					12195	13128	20267	45591
ALL FOREST LAND																				
UP TO 40%	18	53	24	96					972	916	1097	2986					991	969	1122	3082
41% - 60%	191	251	632	1074	3	15		18	4728	5042	4660	14432					4923	5309	5293	15525
61% - 80%	3583	5128	6089	14801	349	650	329	1329	30763	38768	40202	109735					34696	44547	46622	125866
81% -100%	2127	1982	1436	5545					31671	38126	31988	101786					33798	40108	33424	107332
OVERSTOCKED	383	200	423	1007					3475	2065	1372	6913					3858	2265	1796	7921
TOTAL	6304	7616	8606	22526	352	665	329	1348	71612	84918	79322	235853					78269	93201	88258	259728

ALL FIGURES ARE IN THOUSANDS CU.FT.

E S T I M A T E – GROSS CUBIC FT. VOLUMES ON FORESTED LAND BY COVER TYPE, AGE CLASSES, DBH GROUP AND OWNERSHIP CLASSES

MUNICIPALITY – ANTIGONISH

O W N E R S H I P C L A S S

COVER TYPE AND AGE CLASS	CROWN LAND 4 – 6 DBH	CROWN LAND 7 – 9 DBH	CROWN LAND 10 + UP DBH	CROWN LAND TOTAL	LARGE OWNERS 4 – 6 DBH	LARGE OWNERS 7 – 9 DBH	LARGE OWNERS 10 + UP DBH	LARGE OWNERS TOTAL	SMALL OWNERS 4 – 6 DBH	SMALL OWNERS 7 – 9 DBH	SMALL OWNERS 10 + UP DBH	SMALL OWNERS TOTAL	MILITARY RESERVES AND PARKS 4 – 6 DBH	MILITARY RESERVES AND PARKS 7 – 9 DBH	MILITARY RESERVES AND PARKS 10 + UP DBH	MILITARY RESERVES AND PARKS TOTAL	TOTAL 4 – 6 DBH	TOTAL 7 – 9 DBH	TOTAL 10 + UP DBH	TOTAL TOTAL
SOFTWOOD LAND																				
UP TO 20YRS	14	14		28					265	102		367					279	116		396
21YRS – 40YRS	492	589	206	1287					6662	4503	1947	13113					7155	5092	2153	14400
41YRS – 60YRS	2045	2326	1996	6368	122	302	129	554	35540	45052	36016	116609					37708	47681	38141	123532
61YRS – 80YRS	497	426	465	1390					3088	5033	6466	14587					3585	5460	6932	15978
81YRS –100YRS	177	437	747	1362					27			27					204	437	747	1389
101YRS OR MORE	31	75	270	378													31	75	270	378
UNEVENAGED STANDS																				
TOTAL	3259	3870	3686	10816	122	302	129	554	45583	54691	44430	144705					48965	58864	48245	156076
MIXEDWOOD LAND																				
UP TO 20YRS									52			52					52			52
21YRS – 40YRS	75	57	79	212					1496	961	804	3262					1571	1019	884	3475
41YRS – 60YRS	290	214	23	528	229	363	200	794	8144	10844	9792	28781					8664	11421	10017	30104
61YRS – 80YRS	1054	1656	913	3625					5603	6878	7709	20191					6657	8535	8623	23816
81YRS –100YRS																				
101YRS OR MORE																				
UNEVENAGED STANDS	39	125	75	240					121	105	144	371					160	231	220	612
TOTAL	1459	2053	1093	4606	229	363	200	794	15418	18790	18450	52659					17107	21207	19745	58061
HARDWOOD LAND																				
UP TO 20YRS	14			14					15	19		35					29	19		49
21YRS – 40YRS									791	364	689	1845					791	364	689	1845
41YRS – 60YRS	1083	871	2290	4245					5890	4417	4403	14711					6973	5288	6694	18956
61YRS – 80YRS	487	820	1535	2843					3913	6634	11347	21895					4401	7455	12883	24739
81YRS –100YRS																				
101YRS OR MORE																				
UNEVENAGED STANDS																				
TOTAL	1585	1691	3826	7103					10610	11436	16441	38488					12195	13128	20267	45591
ALL FOREST LAND																				
UP TO 20YRS	28	14		42					332	122		455					361	136		498
21YRS – 40YRS	567	646	286	1500					8950	5829	3441	18221					9517	6476	3727	19721
41YRS – 60YRS	3419	3412	4310	11142	352	665	329	1348	49574	60314	50212	160102					53347	64392	54853	172593
61YRS – 80YRS	2040	2904	2915	7859					12605	18546	25523	56675					14645	21450	28438	64535
81YRS –100YRS	177	437	747	1362					27			27					204	437	747	1389
101YRS OR MORE	31	75	270	378													31	75	270	378
UNEVENAGED STANDS	39	125	75	240					121	105	144	371					160	231	220	612
TOTAL	6304	7616	8606	22526	352	665	329	1348	71612	84918	79322	235853					78269	93201	88258	259728

ALL FIGURES ARE IN THOUSANDS CU.FT.

E S T I M A T E - GROSS CUBIC FT. VOLUMES ON FORESTED LAND BY COVER TYPE, SITE CLASSES, DBH GROUP AND OWNERSHIP CLASSES

15

COVER TYPE AND SITE CLASS	OWNERSHIP CLASS: CROWN LAND 4 - 6 DBH	CROWN LAND 7 - 9 DBH	CROWN LAND 10 + UP DBH	CROWN LAND TOTAL	LARGE OWNERS 4 - 6 DBH	LARGE OWNERS 7 - 9 DBH	LARGE OWNERS 10 + UP DBH	LARGE OWNERS TOTAL	SMALL OWNERS 4 - 6 DBH	SMALL OWNERS 7 - 9 DBH	SMALL OWNERS 10 + UP DBH	SMALL OWNERS TOTAL	MILITARY RESERVES AND PARKS 4 - 6 DBH	MILITARY RESERVES AND PARKS 7 - 9 DBH	MILITARY RESERVES AND PARKS 10 + UP DBH	MILITARY RESERVES AND PARKS TOTAL	TOTAL 4 - 6 DBH	TOTAL 7 - 9 DBH	TOTAL 10 + UP DBH	TOTAL TOTAL
SOFTWOOD LAND																				
1																				
2																				
3	100	208		308					4890	6339	5234	16464					4990	6548	5234	16773
4	2985	3478	3406	9871	122	302	129	554	38982	47202	38337	124521					42090	50983	41873	134947
5	173	183	279	636					1710	1149	859	3719					1884	1332	1138	4355
6																				
TOTAL	3259	3870	3686	10816	122	302	129	554	45583	54691	44430	144705					48965	58864	48245	156076
MIXEDWOOD LAND																				
1																				
2																				
3									13			13					13			13
4	1419	1928	1017	4366	229	363	200	794	14955	18374	18122	51452					16605	20667	19340	56613
5	39	125	75	240					448	415	328	1193					488	540	404	1433
6																				
TOTAL	1459	2053	1093	4606	229	363	200	794	15418	18790	18450	52659					17107	21207	19745	58061
HARDWOOD LAND																				
1																				
2																				
3																				
4	1585	1691	3826	7103					10596	11419	16276	38293					12182	13111	20102	45396
5									13	16	164	194					13	16	164	194
6																				
TOTAL	1585	1691	3826	7103					10610	11436	16441	38488					12195	13128	20267	45591
ALL FOREST LAND																				
1																				
2																				
3	100	208		308					4904	6339	5234	16478					5004	6548	5234	16787
4	5990	7099	8250	21340	352	665	329	1348	64534	76997	72736	214268					70878	84762	81316	236957
5	213	308	355	877					2173	1581	1351	5106					2386	1890	1707	5984
6																				
TOTAL	6304	7616	8606	22526	352	665	329	1348	71612	84918	79322	235853					78269	93201	88258	259728

ALL FIGURES ARE IN THOUSANDS CU.FT.

E S T I M A T E – GROSS CUBIC FT. VOLUMES ON FORESTED LAND BY SPECIES, DBH GROUP AND OWNERSHIP CLASS

MUNICIPALITY – ANTIGONISH

16

	O W N E R S H I P C L A S S																			
	C R O W N L A N D				L A R G E O W N E R S				S M A L L O W N E R S				MILITARY RESERVES AND PARKS				T O T A L			
S P E C I E S	4 – 6 DBH	7 – 9 DBH	10 + UP DBH	TOTAL	4 – 6 DBH	7 – 9 DBH	10 + UP DBH	TOTAL	4 – 6 DBH	7 – 9 DBH	10 + UP DBH	TOTAL	4 – 6 DBH	7 – 9 DBH	10 + UP DBH	TOTAL	4 – 6 DBH	7 – 9 DBH	10 + UP DBH	TOTAL
WHITE SPRUCE	518	771	912	2202	10	18		29	19550	26721	26697	72969					20079	27511	27610	75201
SPRUCE-RED + BLACK	473	687	681	1842					7328	7615	6629	21573					7802	8302	7310	23416
FIR	2641	2734	1439	6816	227	466	107	801	25712	27611	11165	64489					28581	30812	12713	72107
HEMLOCK	10	43	146	199					179	867	2377	3423					189	910	2523	3623
WHITE PINE	9	39	108	157					51	201	830	1082					60	240	939	1240
RED PINE																				
LARCH	11	31		42					286	383	218	888					298	414	218	931
JACK PINE																				
SCOTCH PINE																				
CEDAR																				
TOTAL SOFTWOODS	3665	4307	3288	11261	237	484	107	830	53108	63400	47919	164428					57011	68192	51315	176519
SUGAR MAPLE	968	577	1863	3409			19	19	6125	6481	9241	21848					7093	7058	11125	25277
RED MAPLE	1128	1518	1602	4249	45	74	158	278	5899	7598	8902	22400					7073	9191	10663	26928
YELLOW BIRCH	279	658	1274	2213	22	62	19	104	2536	3266	7336	13140					2839	3987	8631	15458
WHITE BIRCH	123	133	78	335					689	832	815	2337					812	966	894	2673
OAK											51	51							51	51
ASPEN	58	201	75	336					1245	934	2029	4209					1304	1136	2104	4545
GREY BIRCH									141			141					141			141
WHITE ASH	41	40		82	31	35	24	91	235	565	762	1563					308	641	787	1736
BLACK ASH		26		26					96	118	75	290					96	145	75	317
CHERRY									41	25		66					41	25		66
ELM											262	262							262	262
BEECH	37	152	421	612					1397	1524	1749	4671					1435	1677	2171	5284
BALSAM POPLAR																				
MISCELLANEOUS					15	6		24	94	171	176	442					109	180	177	466
TOTAL HARDWOODS	2638	3309	5317	11265	114	181	222	518	18503	21518	31403	71424					21257	25008	36943	83208
TOTAL FOREST LAND	6304	7616	8606	22526	352	665	329	1348	71612	84918	79322	235853					78269	93201	88258	259728

ALL FIGURES ARE IN THOUSANDS CU.FT.

E S T I M A T E - MERCH CUBIC FT. VOLUMES ON FORESTED LAND BY COVER TYPE, DENSITY CLASSES, DBH GROUP AND OWNERSHIP CLASS

MUNICIPALITY - ANTIGONISH

17

17

COVER TYPE AND DENSITY CLASS	OWNERSHIP CLASS: CROWN LAND 4 - 6 DBH	CROWN LAND 7 - 9 DBH	CROWN LAND 10 + UP DBH	CROWN LAND TOTAL	LARGE OWNERS 4 - 6 DBH	LARGE OWNERS 7 - 9 DBH	LARGE OWNERS 10 + UP DBH	LARGE OWNERS TOTAL	SMALL OWNERS 4 - 6 DBH	SMALL OWNERS 7 - 9 DBH	SMALL OWNERS 10 + UP DBH	SMALL OWNERS TOTAL	MILITARY RESERVES AND PARKS 4 - 6 DBH	MILITARY RESERVES AND PARKS 7 - 9 DBH	MILITARY RESERVES AND PARKS 10 + UP DBH	MILITARY RESERVES AND PARKS TOTAL	TOTAL 4 - 6 DBH	TOTAL 7 - 9 DBH	TOTAL 10 + UP DBH	TOTAL TOTAL
SOFTWOOD LAND																				
UP TO 40%	9	12		21					572	655	757	1984					581	667	757	2006
41% - 60%	107	140	293	542	2	13		15	2238	2811	2403	7453					2348	2966	2697	8012
61% - 80%	1688	2553	2704	6946	81	245	111	438	11003	17284	14766	43055					12773	20084	17582	50440
81% -100%	438	593	309	1341					16342	24665	20899	61907					16780	25259	21208	63248
OVERSTOCKED									1620	1416	1075	4112					1620	1416	1075	4112
TOTAL	2243	3301	3307	8852	83	259	111	454	31777	46833	39902	118513					34105	50393	43321	127820
MIXEDWOOD LAND																				
UP TO 40%									82	92	100	275					82	92	100	275
41% - 60%	3	35	21	60					774	1282	1106	3163					778	1318	1127	3223
61% - 80%	616	1399	723	2739	153	306	175	635	5040	8721	10267	24029					5811	10427	11166	27404
81% -100%	335	289	203	828					3899	5425	4490	13815					4234	5714	4694	14644
OVERSTOCKED									421	315	149	886					421	315	149	886
TOTAL	955	1724	948	3628	153	306	175	635	10218	15836	16114	42169					11328	17867	17238	46434
HARDWOOD LAND																				
UP TO 40%	4	32	21	57					7	32	122	163					12	64	143	220
41% - 60%	15	36	239	291					187	198	600	986					203	234	840	1278
61% - 80%	123	396	1898	2419					4532	6770	10152	21455					4656	7167	12050	23874
81% -100%	571	757	726	2055					1549	2376	3075	7001					2121	3134	3801	9057
OVERSTOCKED	218	163	359	741					280	39		320					498	202	359	1061
TOTAL	933	1386	3245	5566					6557	9418	13951	29926					7491	10804	17197	35492
ALL FOREST LAND																				
UP TO 40%	13	44	21	79					662	780	980	2423					676	824	1001	2502
41% - 60%	126	212	554	894	2	13		15	3200	4292	4110	11603					3330	4518	4665	12514
61% - 80%	2429	4350	5326	12105	235	552	287	1074	20576	32777	35186	88540					23240	37679	40799	101720
81% -100%	1345	1641	1239	4226					21790	32467	28465	82724					23136	34108	29705	86950
OVERSTOCKED	218	163	359	741					2322	1770	1224	5318					2540	1933	1584	6059
TOTAL	4133	6412	7501	18047	237	565	287	1090	48553	72088	69967	190609					52925	79065	77756	209747

ALL FIGURES ARE IN THOUSANDS CU.FT.

18	O W N E R S H I P C L A S S																			
	C R O W N L A N D				L A R G E O W N E R S				S M A L L O W N E R S				MILITARY RESERVES AND PARKS				T O T A L			
COVER TYPE AND AGE CLASS	4 - 6 DBH	7 - 9 DBH	10 + UP DBH	TOTAL	4 - 6 DBH	7 - 9 DBH	10 + UP DBH	TOTAL	4 - 6 DBH	7 - 9 DBH	10 + UP DBH	TOTAL	4 - 6 DBH	7 - 9 DBH	10 + UP DBH	TOTAL	4 - 6 DBH	7 - 9 DBH	10 + UP DBH	TOTAL
SOFTWOOD LAND																				
UP TO 20YRS	10	12		22					166	87		253					176	99		276
21YRS - 40YRS	327	506	182	1016					4554	3852	1738	10145					4881	4359	1920	11162
41YRS - 60YRS	1418	1976	1791	5186	83	259	111	454	24881	38579	32340	95801					26384	40815	34243	101442
61YRS - 80YRS	343	369	411	1124					2155	4312	5823	12292					2499	4682	6234	13416
81YRS -100YRS	120	371	671	1164					20			20					140	371	671	1184
101YRS OR MORE	22	64	250	337													22	64	250	337
UNEVENAGED STANDS																				
TOTAL	2243	3301	3307	8852	83	259	111	454	31777	46833	39902	118513					34105	50393	43321	127820
MIXEDWOOD LAND																				
UP TO 20YRS									29			29					29			29
21YRS - 40YRS	44	48	67	160					932	817	697	2447					976	866	765	2607
41YRS - 60YRS	180	175	21	377	153	306	175	635	5458	9164	8575	23198					5792	9646	8772	24211
61YRS - 80YRS	705	1394	795	2894					3725	5765	6715	16205					4430	7159	7510	19100
81YRS -100YRS																				
101YRS OR MORE																				
UNEVENAGED STANDS	25	106	64	196					73	89	125	288					99	195	189	484
TOTAL	955	1724	948	3628	153	306	175	635	10218	15836	16114	42169					11328	17867	17238	46434
HARDWOOD LAND																				
UP TO 20YRS	8			8					8	16		24					16	16		32
21YRS - 40YRS									444	306	579	1329					444	306	579	1329
41YRS - 60YRS	615	711	1940	3267					3639	3630	3738	11008					4254	4342	5678	14275
61YRS - 80YRS	310	674	1305	2290					2465	5464	9633	17564					2775	6139	10939	19854
81YRS -100YRS																				
101YRS OR MORE																				
UNEVENAGED STANDS																				
TOTAL	933	1386	3245	5566					6557	9418	13951	29926					7491	10804	17197	35492
ALL FOREST LAND																				
UP TO 20YRS	18	12		30					203	104		307					221	116		338
21YRS - 40YRS	371	555	250	1177					5930	4976	3015	13922					6302	5532	3265	15100
41YRS - 60YRS	2214	2863	3752	8830	237	565	287	1090	33979	51375	44654	130008					36431	54803	48694	139929
61YRS - 80YRS	1359	2438	2512	6310					8346	15542	22172	46062					9706	17981	24684	52372
81YRS -100YRS	120	371	671	1164					20			20					140	371	671	1184
101YRS OR MORE	22	64	250	337													22	64	250	337
UNEVENAGED STANDS	25	106	64	196					73	89	125	288					99	195	189	484
TOTAL	4133	6412	7501	18047	237	565	287	1090	48553	72088	69967	190609					52925	79065	77756	209747

ALL FIGURES ARE IN THOUSANDS CU.FT.

E S T I M A T E - MERCH CUBIC FT. VOLUMES ON FORESTED LAND BY COVER TYPE, SITE CLASSES, DBH GROUP AND OWNERSHIP CLASSES

19

COVER TYPE AND SITE CLASS	OWNERSHIP CLASS: CROWN LAND 4 - 6 DBH	CROWN LAND 7 - 9 DBH	CROWN LAND 10 + UP DBH	CROWN LAND TOTAL	LARGE OWNERS 4 - 6 DBH	LARGE OWNERS 7 - 9 DBH	LARGE OWNERS 10 + UP DBH	LARGE OWNERS TOTAL	SMALL OWNERS 4 - 6 DBH	SMALL OWNERS 7 - 9 DBH	SMALL OWNERS 10 + UP DBH	SMALL OWNERS TOTAL	MILITARY RESERVES AND PARKS 4 - 6 DBH	MILITARY RESERVES AND PARKS 7 - 9 DBH	MILITARY RESERVES AND PARKS 10 + UP DBH	MILITARY RESERVES AND PARKS TOTAL	TOTAL 4 - 6 DBH	TOTAL 7 - 9 DBH	TOTAL 10 + UP DBH	TOTAL TOTAL
SOFTWOOD LAND																				
1																				
2																				
3	74	178		252					3444	5427	4713	13586					3518	5605	4713	13838
4	2050	2965	3058	8074	83	259	111	454	27167	40420	34407	101996					29302	43645	37577	110525
5	118	157	248	525					1165	984	780	2930					1283	1142	1029	3456
6																				
TOTAL	2243	3301	3307	8852	83	259	111	454	31777	46833	39902	118513					34105	50393	43321	127820
MIXEDWOOD LAND																				
1																				
2																				
3									9			9					9			9
4	930	1618	884	3432	153	306	175	635	9914	15488	15829	41231					10998	17412	16889	45300
5	25	106	64	196					295	348	284	928					321	454	349	1124
6																				
TOTAL	955	1724	948	3628	153	306	175	635	10218	15836	16114	42169					11328	17867	17238	46434
HARDWOOD LAND																				
1																				
2																				
3																				
4	933	1386	3245	5566					6547	9404	13812	29764					7481	10791	17057	35330
5									9	13	139	162					9	13	139	162
6																				
TOTAL	933	1386	3245	5566					6557	9418	13951	29926					7491	10804	17197	35492
ALL FOREST LAND																				
1																				
2																				
3	74	178		252					3454	5427	4713	13595					3528	5605	4713	13848
4	3914	5969	7188	17073	237	565	287	1090	43629	65313	64048	172992					47782	71849	71524	191156
5	144	264	312	721					1470	1346	1204	4021					1614	1610	1517	4743
6																				
TOTAL	4133	6412	7501	18047	237	565	287	1090	48553	72088	69967	190609					52925	79065	77756	209747

ALL FIGURES ARE IN THOUSANDS CU.FT.

E S T I M A T E - MERCH CUBIC FT. VOLUMES ON FORESTED LAND BY SPECIES, DBH GROUP AND OWNERSHIP CLASS

MUNICIPALITY - ANTIGONISH

20

20

O W N E R S H I P C L A S S

SPECIES	CROWN LAND 4 - 6 DBH	CROWN LAND 7 - 9 DBH	CROWN LAND 10 + UP DBH	CROWN LAND TOTAL	LARGE OWNERS 4 - 6 DBH	LARGE OWNERS 7 - 9 DBH	LARGE OWNERS 10 + UP DBH	LARGE OWNERS TOTAL	SMALL OWNERS 4 - 6 DBH	SMALL OWNERS 7 - 9 DBH	SMALL OWNERS 10 + UP DBH	SMALL OWNERS TOTAL	MILITARY RESERVES AND PARKS 4 - 6 DBH	MILITARY RESERVES AND PARKS 7 - 9 DBH	MILITARY RESERVES AND PARKS 10 + UP DBH	MILITARY RESERVES AND PARKS TOTAL	TOTAL 4 - 6 DBH	TOTAL 7 - 9 DBH	TOTAL 10 + UP DBH	TOTAL TOTAL
WHITE SPRUCE	379	658	822	1860	7	15		23	13919	22865	24065	60850					14306	23539	24888	62734
SPRUCE-RED + BLACK	330	594	622	1548					5267	6597	6019	17883					5598	7192	6641	19432
FIR	1801	2343	1313	5459	158	400	98	657	17571	23746	10141	51459					19531	26491	11552	57576
HEMLOCK	7	36	131	175					123	729	2145	2998					130	765	2276	3173
WHITE PINE	6	36	102	146					36	188	783	1008					43	225	886	1154
RED PINE																				
LARCH	8	27		36					213	333	195	742					222	360	195	778
JACK PINE																				
SCOTCH PINE																				
CEDAR																				
TOTAL SOFTWOODS	2535	3697	2993	9225	166	416	98	681	37131	54460	43349	134941					39832	58574	46441	144848
SUGAR MAPLE	541	471	1579	2592			15	16	3732	5297	7806	16836					4273	5769	9402	19445
RED MAPLE	700	1242	1361	3304	27	61	134	223	3640	6210	7533	17383					4368	7514	9029	20911
YELLOW BIRCH	184	537	1080	1802	13	51	16	81	1601	2675	6183	10461					1800	3264	7280	12345
WHITE BIRCH	77	108	66	252					421	680	689	1790					499	788	755	2043
OAK											43	43							43	43
ASPEN	42	175	67	286					780	806	1811	3398					823	982	1879	3685
GREY BIRCH									76			76					76			76
WHITE ASH	26	32		58	18	29	21	69	154	460	638	1253					199	522	660	1381
BLACK ASH		22		22					62	95	64	222					62	118	64	244
CHERRY									24	20		44					24	20		44
ELM											214	214							214	214
BEECH	24	124	352	501					870	1243	1483	3598					895	1367	1836	4099
BALSAM POPLAR																				
MISCELLANEOUS					10	5		15	59	139	148	346					69	145	149	363
TOTAL HARDWOODS	1598	2714	4508	8821	71	148	189	409	11422	17627	26617	55668					13092	20491	31315	64899
TOTAL FOREST LAND	4133	6412	7501	18047	237	565	287	1090	48553	72088	69967	190609					52925	79065	77756	209747

ALL FIGURES ARE IN THOUSANDS CU.FT.

E S T I M A T E – GROSS CUBIC FT. VOLUMES ON FORESTED LAND BY COVER TYPE, DENSITY CLASSES, DBH GROUP AND OWNERSHIP CLASS

MUNICIPALITY – ST. MARY

21

21

COVER TYPE AND DENSITY CLASS	OWNERSHIP CLASS: CROWN LAND 4 – 6 DBH	CROWN LAND 7 – 9 DBH	CROWN LAND 10 + UP DBH	CROWN LAND TOTAL	LARGE OWNERS 4 – 6 DBH	LARGE OWNERS 7 – 9 DBH	LARGE OWNERS 10 + UP DBH	LARGE OWNERS TOTAL	SMALL OWNERS 4 – 6 DBH	SMALL OWNERS 7 – 9 DBH	SMALL OWNERS 10 + UP DBH	SMALL OWNERS TOTAL	MILITARY RESERVES AND PARKS 4 – 6 DBH	MILITARY RESERVES AND PARKS 7 – 9 DBH	MILITARY RESERVES AND PARKS 10 + UP DBH	MILITARY RESERVES AND PARKS TOTAL	TOTAL 4 – 6 DBH	TOTAL 7 – 9 DBH	TOTAL 10 + UP DBH	TOTAL TOTAL
SOFTWOOD LAND																				
UP TO 40%	1501	848	1346	3695	295	132	101	529	401	309	127	838					2197	1290	1575	5063
41% – 60%	5602	3324	1962	10890	2117	1448	1142	4707	3510	2750	836	7098					11230	7523	3942	22695
61% – 80%	26444	23934	15671	66050	8383	10363	13127	31873	11219	8415	5342	24977					46047	42713	34140	122901
81% –100%	12961	9356	6983	29301	7463	8558	11683	27705	8595	6203	4257	19055					29021	24118	22923	76063
OVERSTOCKED	2819	928	354	4103	2396	1997	1244	5638	3239	1331	464	5035					8456	4257	2063	14777
TOTAL	49330	38392	26318	114040	20656	22500	27299	70455	26966	19010	11027	57004					96952	79903	64645	241501
MIXEDWOOD LAND																				
UP TO 40%	116	259	788	1163	71	14	47	134	366	258	72	697					555	532	907	1995
41% – 60%	1554	2502	2715	6772	379	525	668	1574	731	744	982	2457					2665	3772	4366	10804
61% – 80%	6989	10350	11103	28443	3795	5243	6323	15363	4466	5985	6269	16722					15252	21579	23697	60529
81% –100%	712	803	421	1937	482	744	739	1965	1777	1901	1627	5306					2972	3449	2787	9210
OVERSTOCKED	123	88		211	86	16	29	132	295	100	19	415					505	205	48	759
TOTAL	9496	14004	15028	38529	4816	6544	7808	19169	7638	8991	8970	25601					21951	29540	31808	83299
HARDWOOD LAND																				
UP TO 40%	80	288	304	673		28		28	35	43	181	259					115	359	485	960
41% – 60%	1514	1494	4034	7043	105	355	830	1291	123	177	597	897					1742	2026	5462	9232
61% – 80%	3396	4127	8830	16354	2340	3693	6848	12882	2802	3803	5202	11808					8540	11624	20881	41045
81% –100%	1972	1332	3509	6814	990	716	1739	3446	73	45	427	546					3035	2093	5677	10806
OVERSTOCKED	175	121	298	595	9			9									185	121	298	605
TOTAL	7139	7363	16977	31480	3445	4793	9418	17657	3034	4068	6409	13512					13619	16225	32805	62650
ALL FOREST LAND																				
UP TO 40%	1697	1396	2438	5532	367	175	148	691	803	611	380	1795					2868	2183	2967	8019
41% – 60%	8670	7321	8713	24705	2602	2328	2641	7572	4365	3671	2416	10453					15638	13322	13771	42732
61% – 80%	36831	38412	35605	110849	14519	19300	26299	60119	18488	18204	16815	53508					69839	75917	78719	224476
81% –100%	15646	11491	10914	38052	8936	10019	14162	33117	10446	8150	6312	24909					35030	29661	31388	96080
OVERSTOCKED	3118	1138	653	4910	2492	2013	1274	5780	3535	1432	483	5451					9147	4584	2410	16142
TOTAL	65965	59760	58325	184050	28918	33838	44525	107282	37639	32071	26407	96118					132523	125669	129258	387452

ALL FIGURES ARE IN THOUSANDS CU.FT.

E S T I M A T E - GROSS CUBIC FT. VOLUMES ON FORESTED LAND BY COVER TYPE, AGE CLASSES, DBH GROUP AND OWNERSHIP CLASSES

MUNICIPALITY - ST. MARY

22

COVER TYPE AND AGE CLASS	OWNERSHIP CLASS: CROWN LAND 4 - 6 DBH	7 - 9 DBH	10 + UP DBH	TOTAL	LARGE OWNERS 4 - 6 DBH	7 - 9 DBH	10 + UP DBH	TOTAL	SMALL OWNERS 4 - 6 DBH	7 - 9 DBH	10 + UP DBH	TOTAL	MILITARY RESERVES AND PARKS 4 - 6 DBH	7 - 9 DBH	10 + UP DBH	TOTAL	TOTAL 4 - 6 DBH	7 - 9 DBH	10 + UP DBH	TOTAL
SOFTWOOD LAND																				
UP TO 20YRS	312	238	238	790	246	307	145	698	179	51	37	268					739	596	421	1757
21YRS - 40YRS	5198	2492	1347	9039	719	414	391	1525	2418	1024	296	3739					8337	3931	2035	14304
41YRS - 60YRS	18206	11883	7054	37144	7314	7796	6751	21862	14509	10264	6022	30796					40030	29944	19828	89804
61YRS - 80YRS	19324	15613	10001	44939	7158	7592	9488	24239	8754	6080	4061	18896					35237	29286	23551	88075
81YRS -100YRS	5828	7834	7024	20686	4954	6031	8697	19683	1104	1590	609	3304					11886	15455	16331	43674
101YRS OR MORE	458	330	651	1440	262	358	1824	2445									721	688	2475	3885
UNEVENAGED STANDS																				
TOTAL	49330	38392	26318	114040	20656	22500	27299	70455	26966	19010	11027	57004					96952	79903	64645	241501
MIXEDWOOD LAND																				
UP TO 20YRS					11	23	43	78	46	11		57					57	34	43	136
21YRS - 40YRS	564	401	155	1122	168	68	48	286	511	274	82	868					1245	744	286	2276
41YRS - 60YRS	1284	1252	1139	3677	2384	3039	3167	8590	2621	2519	2651	7792					6290	6811	6958	20060
61YRS - 80YRS	5042	7859	8228	21129	1253	1636	2493	5383	4007	5235	5931	15175					10303	14731	16653	41688
81YRS -100YRS	2604	4490	5504	12599	609	1058	1115	2783	452	950	305	1707					3666	6499	6925	17091
101YRS OR MORE																				
UNEVENAGED STANDS					388	718	939	2046									388	718	939	2046
TOTAL	9496	14004	15028	38529	4816	6544	7808	19169	7638	8991	8970	25601					21951	29540	31808	83299
HARDWOOD LAND																				
UP TO 20YRS	2			2													2			2
21YRS - 40YRS	970	505	1090	2567	199	199	290	689	296	178	839	1313					1467	883	2220	4570
41YRS - 60YRS	1965	931	1814	4711	1417	1209	1700	4326	682	531	552	1766					4065	2671	4067	10804
61YRS - 80YRS	2442	3937	6416	12796	1727	3026	6297	11051	1895	3202	3761	8859					6065	10166	16475	32707
81YRS -100YRS	1758	1988	7656	11403	96	315	560	971	159	156	1256	1572					2014	2460	9472	13947
101YRS OR MORE					5	43	569	618									5	43	569	618
UNEVENAGED STANDS																				
TOTAL	7139	7363	16977	31480	3445	4793	9418	17657	3034	4068	6409	13512					13619	16225	32805	62650
ALL FOREST LAND																				
UP TO 20YRS	315	238	238	792	258	330	188	777	225	62	37	325					799	631	465	1895
21YRS - 40YRS	6734	3400	2593	12728	1088	682	731	2502	3226	1477	1217	5921					11049	5559	4542	21151
41YRS - 60YRS	21456	14067	10008	45533	11116	12044	11619	34779	17812	13315	9226	40355					50385	39427	30854	120668
61YRS - 80YRS	26809	27410	24646	78865	10138	12255	18280	40674	14658	14519	13754	42932					51606	54184	56681	162472
81YRS -100YRS	10191	14313	20185	44690	5660	7404	10373	23438	1716	2696	2171	6584					17567	24415	32730	74713
101YRS OR MORE	458	330	651	1440	268	401	2393	3063									726	732	3044	4503
UNEVENAGED STANDS					388	718	939	2046									388	718	939	2046
TOTAL	65965	59760	58325	184050	28918	33838	44525	107282	37639	32071	26407	96118					132523	125669	129258	387452

ALL FIGURES ARE IN THOUSANDS CU.FT.

E S T I M A T E – GROSS CUBIC FT. VOLUMES ON FORESTED LAND BY COVER TYPE, SITE CLASSES, DBH GROUP AND OWNERSHIP CLASSES

MUNICIPALITY – ST. MARY

23

COVER TYPE AND SITE CLASS	OWNERSHIP CLASS: CROWN LAND 4 – 6 DBH	CROWN LAND 7 – 9 DBH	CROWN LAND 10 + UP DBH	CROWN LAND TOTAL	LARGE OWNERS 4 – 6 DBH	LARGE OWNERS 7 – 9 DBH	LARGE OWNERS 10 + UP DBH	LARGE OWNERS TOTAL	SMALL OWNERS 4 – 6 DBH	SMALL OWNERS 7 – 9 DBH	SMALL OWNERS 10 + UP DBH	SMALL OWNERS TOTAL	MILITARY RESERVES AND PARKS 4 – 6 DBH	MILITARY RESERVES AND PARKS 7 – 9 DBH	MILITARY RESERVES AND PARKS 10 + UP DBH	MILITARY RESERVES AND PARKS TOTAL	TOTAL 4 – 6 DBH	TOTAL 7 – 9 DBH	TOTAL 10 + UP DBH	TOTAL TOTAL
SOFTWOOD LAND																				
1																				
2																				
3	1395	2017	2633	6046	1140	1664	1721	4526	868	1037	1023	2929					3404	4719	5378	13503
4	32455	27653	19599	79708	16406	19289	24078	59774	18165	14688	9448	42301					67027	61631	53126	181785
5	15382	8691	4085	28160	3079	1545	1498	6123	7909	3284	556	11750					26370	13522	6140	46034
6	96	29		125	29			29	23			23					149	29		178
TOTAL	49330	38392	26318	114040	20656	22500	27299	70455	26966	19010	11027	57004					96952	79903	64645	241501
MIXEDWOOD LAND																				
1																				
2																				
3	51	35		87													51	35		87
4	9171	13539	14501	37211	4672	6419	7784	18877	7305	8659	8927	24893					21149	28619	31213	80983
5	273	429	527	1230	143	124	23	292	332	331	42	707					750	885	594	2229
6																				
TOTAL	9496	14004	15028	38529	4816	6544	7808	19169	7638	8991	8970	25601					21951	29540	31808	83299
HARDWOOD LAND																				
1																				
2																				
3	135	61	111	308													135	61	111	308
4	6578	6755	15881	29216	3445	4793	9418	17657	3034	4068	6384	13487					13059	15617	31684	60361
5	424	546	984	1955							24	24					424	546	1008	1980
6																				
TOTAL	7139	7363	16977	31480	3445	4793	9418	17657	3034	4068	6409	13512					13619	16225	32805	62650
ALL FOREST LAND																				
1																				
2																				
3	1582	2114	2745	6442	1140	1664	1721	4526	868	1037	1023	2929					3591	4817	5490	13898
4	48205	47948	49981	146136	24525	30502	41281	96309	28505	27417	24761	80683					101236	105868	116025	323130
5	16081	9667	5597	31346	3223	1670	1522	6415	8242	3616	623	12481					27546	14954	7743	50244
6	96	29		125	29			29	23			23					149	29		178
TOTAL	65965	59760	58325	184050	28918	33838	44525	107282	37639	32071	26407	96118					132523	125669	129258	387452

ALL FIGURES ARE IN THOUSANDS CU.FT.

E S T I M A T E - GROSS CUBIC FT. VOLUMES ON FORESTED LAND BY SPECIES, DBH GROUP AND OWNERSHIP CLASS

MUNICIPALITY - ST, MARY

24

24

SPECIES	CROWN LAND 4 - 6 DBH	CROWN LAND 7 - 9 DBH	CROWN LAND 10 + UP DBH	CROWN LAND TOTAL	LARGE OWNERS 4 - 6 DBH	LARGE OWNERS 7 - 9 DBH	LARGE OWNERS 10 + UP DBH	LARGE OWNERS TOTAL	SMALL OWNERS 4 - 6 DBH	SMALL OWNERS 7 - 9 DBH	SMALL OWNERS 10 + UP DBH	SMALL OWNERS TOTAL	MILITARY RESERVES AND PARKS 4 - 6 DBH	MILITARY RESERVES AND PARKS 7 - 9 DBH	MILITARY RESERVES AND PARKS 10 + UP DBH	MILITARY RESERVES AND PARKS TOTAL	TOTAL 4 - 6 DBH	TOTAL 7 - 9 DBH	TOTAL 10 + UP DBH	TOTAL TOTAL
WHITE SPRUCE	618	639	413	1671	253	353	461	1069	816	1362	1310	3489					1687	2356	2185	6230
SPRUCE-RED + BLACK	28623	24695	14312	67632	10902	13544	17476	41923	11303	8584	5865	25753					50828	46825	37655	135309
FIR	22207	16115	5827	44150	11150	10315	4281	25747	18386	12001	3540	33929					51744	38433	13649	103826
HEMLOCK	416	241	461	1119	6	28	497	532	10	53	417	481					433	323	1376	2133
WHITE PINE	314	900	8895	10111	166	354	6338	6860	60	93	1122	1277					542	1349	16356	18248
RED PINE	1			1					3	12		16					4	12		17
LARCH	1796	1446	1215	4458	512	418	278	1209	523	585	223	1333					2832	2450	1717	7000
JACK PINE																				
SCOTCH PINE																				
CEDAR																				
TOTAL SOFTWOODS	53977	44040	31126	129144	22992	25016	29333	77341	31104	22694	12481	66280					108074	91751	72941	272767
SUGAR MAPLE	554	874	3896	5325	362	529	947	1840	365	789	1116	2271					1282	2194	5960	9437
RED MAPLE	7935	9457	10906	28300	3925	5167	6224	15317	3694	5272	5315	14282					15555	19897	22447	57901
YELLOW BIRCH	1483	2996	9910	14390	483	1605	7191	9281	1057	2172	6293	9523					3024	6775	23395	33195
WHITE BIRCH	1851	2156	1505	5513	931	1189	602	2723	999	734	436	2170					3782	4080	2544	10407
OAK																				
ASPEN	8	26	321	356	32	90	126	249	4	54	335	394					45	171	782	1000
GREY BIRCH	15			15					18			18					34			34
WHITE ASH		8		8														8		8
BLACK ASH																				
CHERRY						16		16		22		22						39		39
ELM																				
BEECH	138	199	657	995	190	221	99	511	394	330	429	1154					723	751	1185	2661
BALSAM POPLAR																				
MISCELLANEOUS																				
TOTAL HARDWOODS	11987	15719	27198	54906	5926	8821	15192	29940	6535	9376	13926	29838					24449	33918	56317	114685
TOTAL FOREST LAND	65965	59760	58325	184051	28918	33838	44525	107282	37639	32071	26407	96118					132523	125669	129258	387452

ALL FIGURES ARE IN THOUSANDS CU.FT.

E S T I M A T E - MERCH CUBIC FT. VOLUMES ON FORESTED LAND BY COVER TYPE, DENSITY CLASSES, DBH GROUP AND OWNERSHIP CLASS

25

COVER TYPE AND DENSITY CLASS	O W N E R S H I P C L A S S																			
	C R O W N L A N D				L A R G E O W N E R S				S M A L L O W N E R S				MILITARY RESERVES AND PARKS				T O T A L			
	4 - 6 DBH	7 - 9 DBH	10 + UP DBH	TOTAL	4 - 6 DBH	7 - 9 DBH	10 + UP DBH	TOTAL	4 - 6 DBH	7 - 9 DBH	10 + UP DBH	TOTAL	4 - 6 DBH	7 - 9 DBH	10 + UP DBH	TOTAL	4 - 6 DBH	7 - 9 DBH	10 + UP DBH	TOTAL
SOFTWOOD LAND																				
UP TO 40%	1014	731	1248	2994	194	115	92	403	280	266	113	660					1490	1113	1455	4059
41% - 60%	3806	2861	1800	8468	1429	1244	1044	3718	2432	2363	758	5553					7667	6469	3603	17740
61% - 80%	18268	20645	14282	53196	5816	8907	11844	26568	7588	7213	4824	19626					31672	36766	30952	99391
81% -100%	8842	8045	6356	23244	5131	7365	10683	23181	5805	5330	3847	14982					19779	20741	20887	61408
OVERSTOCKED	1832	788	317	2938	1637	1720	1124	4483	2127	1131	427	3686					5597	3640	1870	11108
TOTAL	33764	33073	24005	90843	14210	19353	24790	58354	18233	16304	9972	44509					66207	68731	58768	193708
MIXEDWOOD LAND																				
UP TO 40%	74	218	680	972	45	13	42	101	233	216	61	511					353	447	784	1585
41% - 60%	1043	2110	2359	5514	251	450	586	1288	492	622	849	1964					1787	3183	3795	8767
61% - 80%	4716	8734	9807	23258	2525	4421	5619	12565	2964	5020	5432	13417					10205	18176	20858	49241
81% -100%	460	677	361	1500	319	633	655	1608	1141	1604	1402	4147					1921	2915	2419	7255
OVERSTOCKED	80	74		155	54	13	25	93	175	85	17	278					310	174	42	527
TOTAL	6375	11816	13209	31401	3196	5532	6928	15658	5006	7549	7762	20319					14579	24898	27900	67378
HARDWOOD LAND																				
UP TO 40%	55	238	261	555		22		22	21	35	153	210					77	296	414	789
41% - 60%	897	1234	3405	5537	68	299	730	1098	64	147	508	720					1030	1681	4644	7356
61% - 80%	2076	3403	7504	12984	1468	3074	5877	10421	1787	3142	4404	9334					5332	9621	17786	32740
81% -100%	1180	1091	2989	5261	604	589	1478	2672	36	38	362	437					1821	1719	4830	8371
OVERSTOCKED	89	101	247	438	5			5									94	101	247	443
TOTAL	4299	6070	14407	24777	2147	3986	8087	14221	1909	3363	5429	10702					8357	13420	27923	49701
ALL FOREST LAND																				
UP TO 40%	1144	1188	2190	4523	240	151	135	527	536	517	328	1382					1921	1858	2654	6434
41% - 60%	5747	6206	7565	19519	1750	1994	2361	6106	2988	3133	2116	8238					10485	11335	12043	33864
61% - 80%	25060	32784	31594	89439	9810	16403	23341	49555	12339	15377	14661	42378					47211	64565	69597	181373
81% -100%	10483	9815	9707	30006	6055	8588	12817	27461	6982	6972	5612	19567					23522	25376	28137	77036
OVERSTOCKED	2002	965	565	3532	1698	1734	1150	4582	2302	1217	444	3964					6003	3916	2160	12079
TOTAL	44439	50960	51622	147022	19554	28872	39806	88233	25149	27218	23163	75532					89144	107051	114592	310788

ALL FIGURES ARE IN THOUSANDS CU.FT.

E S T I M A T E — MERCH CUBIC FT. VOLUMES ON FORESTED LAND BY COVER TYPE, AGE CLASSES, DBH GROUP AND OWNERSHIP CLASSES

MUNICIPALITY — ST. MARY

26

COVER TYPE AND AGE CLASS	OWNERSHIP CLASS: CROWN LAND 4 – 6 DBH	CROWN LAND 7 – 9 DBH	CROWN LAND 10 + UP DBH	CROWN LAND TOTAL	LARGE OWNERS 4 – 6 DBH	LARGE OWNERS 7 – 9 DBH	LARGE OWNERS 10 + UP DBH	LARGE OWNERS TOTAL	SMALL OWNERS 4 – 6 DBH	SMALL OWNERS 7 – 9 DBH	SMALL OWNERS 10 + UP DBH	SMALL OWNERS TOTAL	MILITARY RESERVES AND PARKS 4 – 6 DBH	MILITARY RESERVES AND PARKS 7 – 9 DBH	MILITARY RESERVES AND PARKS 10 + UP DBH	MILITARY RESERVES AND PARKS TOTAL	TOTAL 4 – 6 DBH	TOTAL 7 – 9 DBH	TOTAL 10 + UP DBH	TOTAL TOTAL
SOFTWOOD LAND																				
UP TO 20YRS	206	200	211	618	168	261	124	555	115	43	34	193					491	505	370	1367
21YRS – 40YRS	3449	2130	1207	6787	467	356	356	1180	1571	871	272	2715					5488	3358	1836	10684
41YRS – 60YRS	12285	10231	6407	28925	4990	6700	6090	17781	9787	8814	5442	24044					27063	25746	17941	70751
61YRS – 80YRS	13404	13448	9137	35990	4937	6516	8583	20037	5996	5203	3674	14874					24338	25168	21395	70902
81YRS –100YRS	4102	6779	6453	17335	3473	5209	7952	16635	761	1371	548	2682					8337	13361	14954	36653
101YRS OR MORE	315	282	587	1186	171	308	1682	2162									487	591	2270	3349
UNEVENAGED STANDS																				
TOTAL	33764	33073	24005	90843	14210	19353	24790	58354	18233	16304	9972	44509					66207	68731	58768	193708
MIXEDWOOD LAND																				
UP TO 20YRS					6	19	37	63	24	9		33					30	28	37	96
21YRS – 40YRS	353	341	134	828	109	58	42	210	313	231	71	616					776	631	247	1655
41YRS – 60YRS	862	1054	1008	2925	1570	2577	2807	6955	1683	2121	2289	6093					4116	5753	6105	15975
61YRS – 80YRS	3384	6642	7148	17175	846	1373	2209	4429	2688	4398	5139	12226					6918	12414	14498	33831
81YRS –100YRS	1775	3778	4917	10471	410	903	999	2312	297	788	262	1348					2483	5469	6179	14132
101YRS OR MORE																				
UNEVENAGED STANDS					254	600	831	1686									254	600	831	1686
TOTAL	6375	11816	13209	31401	3196	5532	6928	15658	5006	7549	7762	20319					14579	24898	27900	67378
HARDWOOD LAND																				
UP TO 20YRS																				
21YRS – 40YRS	540	419	931	1891	102	167	254	524	157	146	718	1022					799	733	1904	3438
41YRS – 60YRS	1142	766	1561	3470	868	997	1450	3316	415	439	464	1319					2426	2203	3476	8106
61YRS – 80YRS	1553	3243	5461	10258	1110	2518	5412	9042	1236	2648	3195	7079					3900	8410	14070	26381
81YRS –100YRS	1062	1641	6452	9156	62	267	493	824	101	129	1050	1280					1226	2038	7996	11261
101YRS OR MORE					3	35	474	513									3	35	474	513
UNEVENAGED STANDS																				
TOTAL	4299	6070	14407	24777	2147	3986	8087	14221	1909	3363	5429	10702					8357	13420	27923	49701
ALL FOREST LAND																				
UP TO 20YRS	207	200	211	619	175	281	162	618	139	52	34	226					522	534	408	1464
21YRS – 40YRS	4343	2890	2273	9507	678	583	653	1915	2042	1249	1062	4354					7065	4723	3989	15777
41YRS – 60YRS	14290	12052	8977	35320	7430	10274	10349	28054	11885	11375	8196	31457					33606	33703	27522	94832
61YRS – 80YRS	18341	23334	21748	63424	6894	10408	16206	33509	9921	12250	12009	34181					35157	45993	49963	131115
81YRS –100YRS	6940	12199	17824	36964	3946	6380	9445	19771	1160	2289	1861	5311					12047	20869	29131	62047
101YRS OR MORE	315	282	587	1186	175	344	2157	2676									491	626	2744	3862
UNEVENAGED STANDS					254	600	831	1686									254	600	831	1686
TOTAL	44439	50960	51622	147022	19554	28872	39806	88233	25149	27218	23163	75532					89144	107051	114592	310788

ALL FIGURES ARE IN THOUSANDS CU.FT.

E S T I M A T E – MERCH CUBIC FT. VOLUMES ON FORESTED LAND BY COVER TYPE, SITE CLASSES, DBH GROUP AND OWNERSHIP CLASSES

MUNICIPALITY – ST. MARY

27

O W N E R S H I P C L A S S

COVER TYPE AND SITE CLASS	CROWN LAND 4 – 6 DBH	CROWN LAND 7 – 9 DBH	CROWN LAND 10 + UP DBH	CROWN LAND TOTAL	LARGE OWNERS 4 – 6 DBH	LARGE OWNERS 7 – 9 DBH	LARGE OWNERS 10 + UP DBH	LARGE OWNERS TOTAL	SMALL OWNERS 4 – 6 DBH	SMALL OWNERS 7 – 9 DBH	SMALL OWNERS 10 + UP DBH	SMALL OWNERS TOTAL	MILITARY RESERVES AND PARKS 4 – 6 DBH	MILITARY RESERVES AND PARKS 7 – 9 DBH	MILITARY RESERVES AND PARKS 10 + UP DBH	MILITARY RESERVES AND PARKS TOTAL	TOTAL 4 – 6 DBH	TOTAL 7 – 9 DBH	TOTAL 10 + UP DBH	TOTAL TOTAL
SOFTWOOD LAND																				
1																				
2																				
3	973	1740	2412	5126	786	1430	1553	3770	601	895	921	2418					2361	4066	4887	11315
4	22219	23823	17838	63880	11311	16593	21854	49759	12265	12604	8548	33418					45796	53021	48241	147058
5	10508	7484	3755	21749	2094	1329	1382	4806	5349	2804	502	8656					17952	11618	5640	35211
6	62	25		87	18			18	16			16					96	25		122
TOTAL	33764	33073	24005	90843	14210	19353	24790	58354	18233	16304	9972	44509					66207	68731	58768	193708
MIXEDWOOD LAND																				
1																				
2																				
3	35	30		65													35	30		65
4	6146	11421	12753	30321	3105	5426	6907	15439	4775	7270	7725	19770					14027	24117	27386	65532
5	193	364	455	1013	91	106	20	218	231	279	37	548					516	750	513	1780
6																				
TOTAL	6375	11816	13209	31401	3196	5532	6928	15658	5006	7549	7762	20319					14579	24898	27900	67378
HARDWOOD LAND																				
1																				
2																				
3	75	50	103	230													75	50	103	230
4	3962	5569	13464	22997	2147	3986	8087	14221	1909	3363	5408	10681					8019	12920	26960	47900
5	261	450	838	1550							20	20					261	450	859	1571
6																				
TOTAL	4299	6070	14407	24777	2147	3986	8087	14221	1909	3363	5429	10702					8357	13420	27923	49701
ALL FOREST LAND																				
1																				
2																				
3	1084	1821	2515	5421	786	1430	1553	3770	601	895	921	2418					2472	4147	4990	11611
4	32328	40814	44056	117199	16564	26005	36849	79419	18951	23238	21681	63871					67843	90059	102588	260491
5	10964	8299	5049	24313	2186	1435	1403	5024	5580	3084	560	9225					18731	12819	7013	38563
6	62	25		87	18			18	16			16					96	25		122
TOTAL	44439	50960	51622	147022	19554	28872	39806	88233	25149	27218	23163	75532					89144	107051	114592	310788

ALL FIGURES ARE IN THOUSANDS CU.FT.

E S T I M A T E - MERCH CUBIC FT. VOLUMES ON FORESTED LAND BY SPECIES, DBH GROUP AND OWNERSHIP CLASS

MUNICIPALITY - ST, MARY

28

28

O W N E R S H I P C L A S S

SPECIES	CROWN LAND 4 - 6 DBH	CROWN LAND 7 - 9 DBH	CROWN LAND 10 + UP DBH	CROWN LAND TOTAL	LARGE OWNERS 4 - 6 DBH	LARGE OWNERS 7 - 9 DBH	LARGE OWNERS 10 + UP DBH	LARGE OWNERS TOTAL	SMALL OWNERS 4 - 6 DBH	SMALL OWNERS 7 - 9 DBH	SMALL OWNERS 10 + UP DBH	SMALL OWNERS TOTAL	MILITARY RESERVES AND PARKS 4 - 6 DBH	MILITARY RESERVES AND PARKS 7 - 9 DBH	MILITARY RESERVES AND PARKS 10 + UP DBH	MILITARY RESERVES AND PARKS TOTAL	TOTAL 4 - 6 DBH	TOTAL 7 - 9 DBH	TOTAL 10 + UP DBH	TOTAL TOTAL
WHITE SPRUCE	440	545	370	1356	176	301	415	893	584	1168	1180	2932					1201	2015	1966	5183
SPRUCE-RED + BLACK	20165	21402	13029	54597	7725	11762	15991	35478	7913	7441	5342	20697					35804	40606	34362	110773
FIR	14819	13843	5301	33964	7518	8861	3896	20276	12239	10281	3225	25745					34576	32986	12423	79986
HEMLOCK	268	201	416	887	3	23	451	479	7	44	381	433					280	269	1249	1799
WHITE PINE	238	842	8394	9475	126	332	5974	6433	50	88	1060	1199					415	1262	15430	17107
RED PINE									2	11		14					3	11		15
LARCH	1247	1254	1103	3604	360	364	249	974	377	508	202	1088					1985	2126	1555	5667
JACK PINE																				
SCOTCH PINE																				
CEDAR																				
TOTAL SOFTWOODS	37180	38089	28616	103886	15911	21644	26979	64535	21175	19544	11391	52111					74266	79279	66987	220533
SUGAR MAPLE	351	715	3297	4365	221	433	800	1455	225	644	944	1814					799	1794	5041	7635
RED MAPLE	4715	7744	9236	21695	2394	4229	5273	11897	2231	4312	4508	11052					9341	16285	19018	44645
YELLOW BIRCH	964	2455	8352	11772	307	1317	6044	7669	667	1780	5289	7736					1939	5552	19686	27178
WHITE BIRCH	1125	1763	1276	4165	583	973	510	2067	590	600	370	1560					2299	3337	2157	7794
OAK																				
ASPEN	5	23	286	315	20	78	112	211	3	47	296	346					29	149	695	873
GREY BIRCH	10			10					9			9					19			19
WHITE ASH		6		6														6		6
BLACK ASH																				
CHERRY						13		13		18		18						32		32
ELM																				
BEECH	85	161	557	805	116	182	84	382	246	270	363	880					449	614	1005	2069
BALSAM POPLAR																				
MISCELLANEOUS																				
TOTAL HARDWOODS	7259	12871	23006	43136	3643	7227	12826	23698	3974	7673	11772	23420					14877	27772	47604	90254
TOTAL FOREST LAND	44439	50960	51622	147022	19554	28872	39806	88233	25149	27218	23163	75532					89144	107051	114592	310788

ALL FIGURES ARE IN THOUSANDS CU.FT.

E S T I M A T E - GROSS CUBIC FT. VOLUMES ON FORESTED LAND BY COVER TYPE, DENSITY CLASSES, DBH GROUP AND OWNERSHIP CLASS

MUNICIPALITY - GUYSBOROUGH

29

O W N E R S H I P C L A S S

COVER TYPE AND DENSITY CLASS	CROWN LAND 4 - 6 DBH	CROWN LAND 7 - 9 DBH	CROWN LAND 10 + UP DBH	CROWN LAND TOTAL	LARGE OWNERS 4 - 6 DBH	LARGE OWNERS 7 - 9 DBH	LARGE OWNERS 10 + UP DBH	LARGE OWNERS TOTAL	SMALL OWNERS 4 - 6 DBH	SMALL OWNERS 7 - 9 DBH	SMALL OWNERS 10 + UP DBH	SMALL OWNERS TOTAL	MILITARY RESERVES AND PARKS 4 - 6 DBH	MILITARY RESERVES AND PARKS 7 - 9 DBH	MILITARY RESERVES AND PARKS 10 + UP DBH	MILITARY RESERVES AND PARKS TOTAL	TOTAL 4 - 6 DBH	TOTAL 7 - 9 DBH	TOTAL 10 + UP DBH	TOTAL TOTAL
SOFTWOOD LAND																				
UP TO 40%	1660	1100	585	3346	70	88	43	203	1524	1776	1597	4897					3255	2965	2226	8447
41% - 60%	3940	2486	1269	7696	357	236	324	918	5452	4352	3826	13631					9751	7074	5420	22246
61% - 80%	16822	12604	5521	34947	377	246	57	691	22636	16536	11086	50259					39836	29386	16676	85898
81% -100%	5019	4493	3171	12684	166	79	25	271	12688	9317	4298	26303					17873	13890	7495	39259
OVERSTOCKED	954	528	281	1764	179	31		211	1359	357	438	2154					2493	917	720	4131
TOTAL	28396	21212	10830	60439	1151	682	462	2296	43661	32339	21246	97247					73209	54234	32539	159983
MIXEDWOOD LAND																				
UP TO 40%	376	656	1135	2168					668	418	1296	2384					1045	1075	2432	4553
41% - 60%	1586	2914	5184	9685	33			33	2467	3205	4659	10332					4087	6120	9843	20052
61% - 80%	5307	7755	8819	21882	553	413	351	1318	9516	7663	8029	25210					15377	15832	17201	48411
81% -100%	299	400	544	1244	1			1	836	440	583	1860					1138	841	1127	3107
OVERSTOCKED									709	203	52	965					709	203	52	965
TOTAL	7570	11727	15683	34982	589	413	351	1354	14198	11932	14621	40752					22358	24073	30657	77089
HARDWOOD LAND																				
UP TO 40%	636	1189	3653	5479	8	50	244	303	262	376	2018	2657					907	1617	5916	8440
41% - 60%	1137	2325	6022	9485	82	86	89	258	493	908	1397	2800					1713	3321	7510	12545
61% - 80%	2945	3712	6686	13343	46	47	21	115	3140	3912	8221	15275					6132	7672	14929	28734
81% -100%	2373	3512	8301	14187					876	681	1345	2903					3249	4193	9647	17091
OVERSTOCKED	52	78		131					37	18		55					89	97		187
TOTAL	7145	10818	24663	42627	137	184	356	678	4810	5898	12983	23692					12093	16901	38003	66998
ALL FOREST LAND																				
UP TO 40%	2673	2946	5374	10994	79	139	288	507	2455	2572	4912	9939					5207	5658	10575	21441
41% - 60%	6664	7726	12476	26868	473	322	414	1211	8414	8466	9883	26764					15552	16516	22774	54843
61% - 80%	25075	24072	21027	70174	977	707	441	2126	35293	28112	27337	90744					61346	52891	48806	163045
81% -100%	7692	8406	12017	28116	168	79	25	273	14401	10439	6227	31068					22262	18925	18270	59458
OVERSTOCKED	1007	606	281	1895	179	31		211	2105	579	490	3175					3292	1218	772	5283
TOTAL	43112	43759	51177	138049	1878	1280	1170	4329	62670	50170	48851	161693					107661	95210	101200	304072

ALL FIGURES ARE IN THOUSANDS CU.FT.

E S T I M A T E - GROSS CUBIC FT. VOLUMES ON FORESTED LAND BY COVER TYPE, AGE CLASSES, DBH GROUP AND OWNERSHIP CLASSES

30

COVER TYPE AND AGE CLASS	OWNERSHIP CLASS: CROWN LAND 4 - 6 DBH	7 - 9 DBH	10 + UP DBH	TOTAL	LARGE OWNERS 4 - 6 DBH	7 - 9 DBH	10 + UP DBH	TOTAL	SMALL OWNERS 4 - 6 DBH	7 - 9 DBH	10 + UP DBH	TOTAL	MILITARY RESERVES AND PARKS 4 - 6 DBH	7 - 9 DBH	10 + UP DBH	TOTAL	TOTAL 4 - 6 DBH	7 - 9 DBH	10 + UP DBH	TOTAL
SOFTWOOD LAND																				
UP TO 20YRS	173	133	124	432	5			5	697	493	710	1901					876	627	835	2339
21YRS - 40YRS	3301	1553	871	5727	576	179	25	782	8410	3012	1471	12894					12288	4745	2369	19403
41YRS - 60YRS	20329	15276	7751	43357	177	233	173	585	24689	19806	12322	56818					45197	35316	20247	100761
61YRS - 80YRS	4042	3909	1958	9911	390	269	262	922	9299	8588	6638	24526					13732	12768	8860	35361
81YRS -100YRS	549	339	122	1011					564	437	103	1106					1114	776	226	2117
101YRS OR MORE UNEVENAGED STANDS																				
TOTAL	28396	21212	10830	60439	1151	682	462	2296	43661	32339	21246	97247					73209	54234	32539	159983
MIXEDWOOD LAND																				
UP TO 20YRS	301	291	296	890	118	45	141	305	276	367	387	1031					696	705	825	2227
21YRS - 40YRS	207	252	362	823	33			33	1216	391	730	2338					1457	644	1093	3195
41YRS - 60YRS	2871	2337	2033	7242	120	97	166	384	8323	5860	5027	19211					11315	8295	7227	26838
61YRS - 80YRS	4050	8420	12219	24691	316	270	43	630	3576	3885	6225	13687					7944	12576	18488	39009
81YRS -100YRS	92	359	588	1040					799	1417	2251	4468					892	1777	2839	5509
101YRS OR MORE UNEVENAGED STANDS	45	66	182	294					6	9		15					51	75	182	310
TOTAL	7570	11727	15683	34982	589	413	351	1354	14198	11932	14621	40752					22358	24073	30657	77089
HARDWOOD LAND																				
UP TO 20YRS	6	38	107	152					140	243	425	809					147	281	532	961
21YRS - 40YRS	1527	1396	4869	7793	6	47	21	75	1116	554	1331	3003					2651	1997	6222	10871
41YRS - 60YRS	1767	1146	1721	4634	40			40	1183	738	887	2809					2990	1884	2608	7484
61YRS - 80YRS	2715	5263	11342	19320	90	137	334	562	2284	4151	9323	15759					5090	9552	20999	35642
81YRS -100YRS	1128	2974	6624	10726					70	178	731	979					1198	3152	7355	11706
101YRS OR MORE UNEVENAGED STANDS									15	31	284	331					15	31	284	331
TOTAL	7145	10818	24663	42627	137	184	356	678	4810	5898	12983	23692					12093	16901	38003	66998
ALL FOREST LAND																				
UP TO 20YRS	481	464	528	1474	123	45	141	311	1114	1105	1522	3743					1720	1614	2193	5528
21YRS - 40YRS	5037	3202	6103	14343	617	226	47	891	10743	3958	3533	18235					16397	7387	9685	33471
41YRS - 60YRS	24968	18759	11506	55234	338	331	339	1010	34196	26405	18237	78839					59503	45496	30084	135084
61YRS - 80YRS	10808	17593	25520	53923	798	677	640	2116	15160	16626	22186	53973					26767	34897	48348	110013
81YRS -100YRS	1771	3672	7335	12779					1434	2033	3086	6554					3205	5706	10421	19333
101YRS OR MORE UNEVENAGED STANDS	45	66	182	294					15	31	284	331					15	31	284	331
									6	9		15					51	75	182	310
TOTAL	43112	43759	51177	138049	1878	1280	1170	4329	62670	50170	48851	161693					107661	95210	101200	304072

ALL FIGURES ARE IN THOUSANDS CU.FT.

E S T I M A T E - GROSS CUBIC FT. VOLUMES ON FORESTED LAND BY COVER TYPE, SITE CLASSES, DBH GROUP AND OWNERSHIP CLASSES

31

COVER TYPE AND SITE CLASS	OWNERSHIP CLASS: CROWN LAND 4 - 6 DBH	7 - 9 DBH	10 + UP DBH	TOTAL	LARGE OWNERS 4 - 6 DBH	7 - 9 DBH	10 + UP DBH	TOTAL	SMALL OWNERS 4 - 6 DBH	7 - 9 DBH	10 + UP DBH	TOTAL	MILITARY RESERVES AND PARKS 4 - 6 DBH	7 - 9 DBH	10 + UP DBH	TOTAL	TOTAL 4 - 6 DBH	7 - 9 DBH	10 + UP DBH	TOTAL
SOFTWOOD LAND																				
1																				
2																				
3	10	61	21	93					1646	1279	577	3503					1657	1341	599	3597
4	23368	17894	9826	51088	752	413	199	1365	34168	27187	18982	80338					58289	45495	29008	132793
5	4987	3246	982	9215	399	269	262	931	7807	3872	1686	13365					13193	7388	2931	23513
6	30	10		41					38			38					69	10		79
TOTAL	28396	21212	10830	60439	1151	682	462	2296	43661	32339	21246	97247					73209	54234	32539	159983
MIXEDWOOD LAND																				
1																				
2									256	27	55	340					256	27	55	340
3									7			7					7			7
4	7094	10952	15152	33199	539	375	185	1100	13587	11688	14039	39315					21222	23015	29377	73616
5	475	775	531	1782	49	38	166	253	346	216	526	1089					871	1030	1224	3125
6																				
TOTAL	7570	11727	15683	34982	589	413	351	1354	14198	11932	14621	40752					22358	24073	30657	77089
HARDWOOD LAND																				
1																				
2																				
3	225	194	547	967					390	591	2162	3145					616	786	2710	4112
4	6920	10623	24116	41659	137	184	356	678	4396	5306	10821	20524					11454	16115	35293	62862
5									23			23					23			23
6																				
TOTAL	7145	10818	24663	42627	137	184	356	678	4810	5898	12983	23692					12093	16901	38003	66998
ALL FOREST LAND																				
1																				
2									256	27	55	340					256	27	55	340
3	235	256	569	1061					2045	1871	2740	6656					2281	2127	3310	7718
4	37383	39470	49094	125948	1429	973	741	3144	52153	44182	43843	140179					90966	84626	93679	269271
5	5462	4021	1513	10998	448	307	429	1185	8176	4089	2212	14478					14088	8418	4155	26662
6	30	10		41					38			38					69	10		79
TOTAL	43112	43759	51177	138049	1878	1280	1170	4329	62670	50170	48851	161693					107661	95210	101200	304072

ALL FIGURES ARE IN THOUSANDS CU.FT.

E S T I M A T E – GROSS CUBIC FT. VOLUMES ON FORESTED LAND BY SPECIES, DBH GROUP AND OWNERSHIP CLASS

MUNICIPALITY – GUYSBOROUGH

	O W N E R S H I P C L A S S																			
	C R O W N L A N D				L A R G E O W N E R S				S M A L L O W N E R S				MILITARY RESERVES AND PARKS				T O T A L			
S P E C I E S	4 – 6 DBH	7 – 9 DBH	10 + UP DBH	TOTAL	4 – 6 DBH	7 – 9 DBH	10 + UP DBH	TOTAL	4 – 6 DBH	7 – 9 DBH	10 + UP DBH	TOTAL	4 – 6 DBH	7 – 9 DBH	10 + UP DBH	TOTAL	4 – 6 DBH	7 – 9 DBH	10 + UP DBH	TOTAL
WHITE SPRUCE	1744	1652	1969	5365	195	143	152	491	7765	9538	8150	25454					9705	11334	10272	31312
SPRUCE-RED + BLACK	11029	7703	3131	21864	348	246	163	758	10398	6847	4176	21422					21777	14797	7471	44046
FIR	19140	17238	9249	45627	720	449	48	1219	31016	19724	10919	61660					50877	37412	20217	108508
HEMLOCK		15		15					11	35	312	359					11	51	312	375
WHITE PINE	19	102	830	952	5			5	58	91	573	724					83	193	1404	1682
RED PINE									5			5					5			5
LARCH	1123	782	409	2316	95	45		141	703	497	113	1314					1922	1325	523	3772
JACK PINE	231	25		256					303	82	26	412					534	107	26	668
SCOTCH PINE																				
CEDAR																				
TOTAL SOFTWOODS	33288	27519	15590	76398	1367	885	364	2617	50262	36818	24273	111354					84918	65223	40229	190370
SUGAR MAPLE	776	1870	4123	6770	7	42	40	91	487	883	1693	3064					1271	2796	5857	9925
RED MAPLE	5598	7174	10497	23269	183	141	213	538	7295	6487	9119	22902					13077	13802	19830	46710
YELLOW BIRCH	1956	5538	19257	26752	148	117	311	577	1380	3270	11441	16092					3484	8926	31010	43422
WHITE BIRCH	1126	1214	846	3188	106	65	239	411	2492	1614	1284	5390					3726	2893	2371	8991
OAK									4			4					4			4
ASPEN					53	10		64	117	125	85	328					170	136	85	392
GREY BIRCH	14			14	6			6	10			10					32			32
WHITE ASH	35	74	40	150					76	134	153	364					112	208	194	515
BLACK ASH									47	82		129					47	82		129
CHERRY																				
ELM																				
BEECH	313	367	820	1501	4	17		21	446	718	752	1917					763	1103	1573	3440
BALSAM POPLAR																				
MISCELLANEOUS	4			4					50	35	46	133					55	36	46	137
TOTAL HARDWOODS	9824	16239	35586	61650	511	395	805	1712	12408	13351	24578	50338					22743	29987	60971	113701
TOTAL FOREST LAND	43112	43759	51177	138049	1878	1280	1170	4329	62670	50170	48851	161693					107661	95210	101200	304072

ALL FIGURES ARE IN THOUSANDS CU.FT.

E S T I M A T E - MERCH CUBIC FT. VOLUMES ON FORESTED LAND BY COVER TYPE, DENSITY CLASSES, DBH GROUP AND OWNERSHIP CLASS

MUNICIPALITY - GUYSBOROUGH

33

O W N E R S H I P C L A S S

COVER TYPE AND DENSITY CLASS	CROWN LAND 4 - 6 DBH	CROWN LAND 7 - 9 DBH	CROWN LAND 10 + UP DBH	CROWN LAND TOTAL	LARGE OWNERS 4 - 6 DBH	LARGE OWNERS 7 - 9 DBH	LARGE OWNERS 10 + UP DBH	LARGE OWNERS TOTAL	SMALL OWNERS 4 - 6 DBH	SMALL OWNERS 7 - 9 DBH	SMALL OWNERS 10 + UP DBH	SMALL OWNERS TOTAL	MILITARY RESERVES AND PARKS 4 - 6 DBH	MILITARY RESERVES AND PARKS 7 - 9 DBH	MILITARY RESERVES AND PARKS 10 + UP DBH	MILITARY RESERVES AND PARKS TOTAL	TOTAL 4 - 6 DBH	TOTAL 7 - 9 DBH	TOTAL 10 + UP DBH	TOTAL TOTAL
SOFTWOOD LAND																				
UP TO 40%	1120	938	509	2567	44	73	36	155	1025	1524	1434	3985					2190	2536	1981	6707
41% - 60%	2630	2136	1146	5913	251	202	284	737	3638	3718	3446	10803					6520	6056	4878	17455
61% - 80%	11434	10820	4985	27240	239	207	61	508	15214	14143	9946	39303					26888	25171	14992	67053
81% -100%	3414	3872	2883	10170	111	67	23	202	8513	7975	3863	20352					12039	11915	6769	30725
OVERSTOCKED	603	444	243	1290	109	25		135	865	299	381	1546					1577	770	624	2972
TOTAL	19203	18211	9768	47184	755	577	405	1738	29257	27661	19072	75992					49217	46450	29246	124914
MIXEDWOOD LAND																				
UP TO 40%	246	555	969	1771					437	348	1113	1898					683	903	2083	3669
41% - 60%	1083	2450	4474	8008	19			19	1607	2697	3991	8296					2710	5147	8466	16325
61% - 80%	3577	6501	7648	17727	362	351	297	1010	6116	6429	6979	19525					10056	13281	14925	38263
81% -100%	183	337	462	983					537	373	507	1419					721	711	970	2403
OVERSTOCKED									425	171	47	644					425	171	47	644
TOTAL	5090	9844	13555	28490	382	351	297	1031	9124	10020	12639	31783					14597	20216	26492	61306
HARDWOOD LAND																				
UP TO 40%	372	984	3076	4432	5	42	206	254	168	312	1709	2190					547	1339	4992	6879
41% - 60%	764	1932	5125	7822	45	71	79	195	323	747	1188	2259					1133	2751	6392	10277
61% - 80%	1857	3066	5675	10600	22	39	18	80	1914	3224	6983	12121					3794	6330	12677	22802
81% -100%	1353	2903	7047	11304					491	561	1154	2207					1845	3465	8202	13512
OVERSTOCKED	29	65		94					17	15		32					47	80		127
TOTAL	4378	8951	20924	34255	73	153	304	531	2915	4862	11035	18813					7367	13967	32265	53599
ALL FOREST LAND																				
UP TO 40%	1738	2477	4555	8771	50	116	243	410	1631	2186	4257	8074					3420	4779	9056	17256
41% - 60%	4478	6518	10746	21744	316	274	363	953	5569	7163	8626	21360					10364	13956	19737	44057
61% - 80%	16870	20388	18309	55568	624	597	377	1599	23245	23796	23908	70950					40740	44783	42595	128119
81% -100%	4951	7113	10393	22459	112	67	23	203	9542	8910	5525	23979					14606	16092	15942	46641
OVERSTOCKED	633	509	243	1385	109	25		135	1308	486	428	2224					2050	1022	671	3744
TOTAL	28673	37007	44248	109930	1211	1081	1008	3301	41297	42544	42747	126589					71182	80634	88003	239820

ALL FIGURES ARE IN THOUSANDS CU.FT.

E S T I M A T E – MERCH CUBIC FT. VOLUMES ON FORESTED LAND BY COVER TYPE, AGE CLASSES, DBH GROUP AND OWNERSHIP CLASSES

MUNICIPALITY – GUYSBOROUGH

34

O W N E R S H I P C L A S S

COVER TYPE AND AGE CLASS	CROWN LAND 4 – 6 DBH	CROWN LAND 7 – 9 DBH	CROWN LAND 10 + UP DBH	CROWN LAND TOTAL	LARGE OWNERS 4 – 6 DBH	LARGE OWNERS 7 – 9 DBH	LARGE OWNERS 10 + UP DBH	LARGE OWNERS TOTAL	SMALL OWNERS 4 – 6 DBH	SMALL OWNERS 7 – 9 DBH	SMALL OWNERS 10 + UP DBH	SMALL OWNERS TOTAL	MILITARY RESERVES AND PARKS 4 – 6 DBH	MILITARY RESERVES AND PARKS 7 – 9 DBH	MILITARY RESERVES AND PARKS 10 + UP DBH	MILITARY RESERVES AND PARKS TOTAL	TOTAL 4 – 6 DBH	TOTAL 7 – 9 DBH	TOTAL 10 + UP DBH	TOTAL TOTAL
SOFTWOOD LAND																				
UP TO 20YRS	111	114	114	339	3			3	428	416	633	1478					543	530	748	1822
21YRS – 40YRS	2120	1318	781	4220	356	150	23	529	5393	2560	1289	9243					7870	4029	2094	13994
41YRS – 60YRS	13827	13126	7014	33967	122	197	158	478	16664	16928	11053	44647					30614	30252	18226	79093
61YRS – 80YRS	2767	3361	1748	7877	273	228	224	726	6391	7378	6002	19772					9432	10968	7975	28376
81YRS –100YRS	376	292	109	777					378	377	92	849					755	669	202	1627
101YRS OR MORE																				
UNEVENAGED STANDS																				
TOTAL	19203	18211	9768	47184	755	577	405	1738	29257	27661	19072	75992					49217	46450	29246	124914
MIXEDWOOD LAND																				
UP TO 20YRS	205	246	258	710	76	38	120	234	187	312	333	832					468	596	712	1777
21YRS – 40YRS	123	212	307	643	19			19	722	330	641	1694					865	542	949	2357
41YRS – 60YRS	1892	1955	1780	5628	76	83	140	299	5331	4915	4396	14643					7300	6954	6317	20572
61YRS – 80YRS	2774	7072	10547	20395	210	229	36	477	2335	3267	5341	10944					5320	10569	15926	31816
81YRS –100YRS	66	301	503	871					544	1187	1925	3657					610	1489	2428	4528
101YRS OR MORE																				
UNEVENAGED STANDS	28	55	157	241					3	7		11					32	62	157	252
TOTAL	5090	9844	13555	28490	382	351	297	1031	9124	10020	12639	31783					14597	20216	26492	61306
HARDWOOD LAND																				
UP TO 20YRS	3	32	91	127					83	204	363	651					87	236	454	779
21YRS – 40YRS	814	1163	4128	6107	3	39	18	61	610	456	1136	2203					1428	1659	5283	8371
41YRS – 60YRS	1073	945	1460	3480	18			18	700	606	769	2076					1793	1552	2230	5576
61YRS – 80YRS	1735	4339	9622	15696	50	114	285	450	1465	3423	7909	12797					3251	7876	17817	28945
81YRS –100YRS	751	2469	5622	8843					44	146	615	805					795	2615	6238	9649
101YRS OR MORE									10	25	241	277					10	25	241	277
UNEVENAGED STANDS																				
TOTAL	4378	8951	20924	34255	73	153	304	531	2915	4862	11035	18813					7367	13967	32265	53599
ALL FOREST LAND																				
UP TO 20YRS	320	393	464	1178	79	38	120	238	699	932	1331	2963					1099	1364	1915	4379
21YRS – 40YRS	3058	2695	5217	10971	379	189	41	611	6725	3347	3068	13141					10163	6231	8327	24723
41YRS – 60YRS	16793	16027	10256	43077	217	280	299	797	22697	22451	16219	61367					39708	38759	26774	105242
61YRS – 80YRS	7277	14773	21918	43969	534	572	547	1654	10192	14068	19253	43514					18005	29415	41718	89139
81YRS –100YRS	1194	3063	6234	10492					967	1711	2634	5313					2161	4774	8869	15805
101YRS OR MORE									10	25	241	277					10	25	241	277
UNEVENAGED STANDS	28	55	157	241					3	7		11					32	62	157	252
TOTAL	28673	37007	44248	109930	1211	1081	1008	3301	41297	42544	42747	126589					71182	80634	88003	239820

ALL FIGURES ARE IN THOUSANDS CU.FT.

E S T I M A T E - MERCH CUBIC FT. VOLUMES ON FORESTED LAND BY COVER TYPE, SITE CLASSES, DBH GROUP AND OWNERSHIP CLASSES

35

COVER TYPE AND SITE CLASS	OWNERSHIP CLASS: CROWN LAND 4 - 6 DBH	CROWN LAND 7 - 9 DBH	CROWN LAND 10 + UP DBH	CROWN LAND TOTAL	LARGE OWNERS 4 - 6 DBH	LARGE OWNERS 7 - 9 DBH	LARGE OWNERS 10 + UP DBH	LARGE OWNERS TOTAL	SMALL OWNERS 4 - 6 DBH	SMALL OWNERS 7 - 9 DBH	SMALL OWNERS 10 + UP DBH	SMALL OWNERS TOTAL	MILITARY RESERVES AND PARKS 4 - 6 DBH	MILITARY RESERVES AND PARKS 7 - 9 DBH	MILITARY RESERVES AND PARKS 10 + UP DBH	MILITARY RESERVES AND PARKS TOTAL	TOTAL 4 - 6 DBH	TOTAL 7 - 9 DBH	TOTAL 10 + UP DBH	TOTAL TOTAL
SOFTWOOD LAND																				
1																				
2																				
3	6	53	19	79					1101	1093	519	2713					1108	1146	538	2793
4	15811	15364	8878	40054	478	348	181	1008	22874	23247	17039	63161					39164	38960	26099	104224
5	3364	2785	870	7020	277	228	224	730	5261	3321	1513	10096					8903	6335	2608	17847
6	20	8		29					20			20					40	8		49
TOTAL	19203	18211	9768	47184	755	577	405	1738	29257	27661	19072	75992					49217	46450	29246	124914
MIXEDWOOD LAND																				
1																				
2									154	23	50	227					154	23	50	227
3									3			3					3			3
4	4780	9189	13099	27068	354	319	156	830	8736	9815	12136	30688					13870	19324	25393	58588
5	310	655	456	1421	28	31	140	201	230	181	452	863					569	868	1048	2486
6																				
TOTAL	5090	9844	13555	28490	382	351	297	1031	9124	10020	12639	31783					14597	20216	26492	61306
HARDWOOD LAND																				
1																				
2																				
3	146	160	468	774					255	493	1824	2574					401	654	2293	3349
4	4232	8791	20456	33480	73	153	304	531	2648	4368	9211	16227					6953	13312	29971	50238
5									11			11					11			11
6																				
TOTAL	4378	8951	20924	34255	73	153	304	531	2915	4862	11035	18813					7367	13967	32265	53599
ALL FOREST LAND																				
1																				
2									154	23	50	227					154	23	50	227
3	152	213	487	854					1360	1586	2343	5291					1513	1800	2831	6145
4	24824	33344	42434	100603	905	820	643	2369	34258	37432	38387	110078					59989	71597	81464	213051
5	3675	3440	1326	8442	306	260	364	931	5503	3502	1965	10971					9485	7203	3657	20346
6	20	8		29					20			20					40	8		49
TOTAL	28673	37007	44248	109930	1211	1081	1008	3301	41297	42544	42747	126589					71182	80634	88003	239820

ALL FIGURES ARE IN THOUSANDS CU.FT.

E S T I M A T E — MERCH CUBIC FT. VOLUMES ON FORESTED LAND BY SPECIES, DBH GROUP AND OWNERSHIP CLASS

MUNICIPALITY - GUYSBOROUGH

36

	O W N E R S H I P C L A S S																			
	C R O W N L A N D				L A R G E O W N E R S				S M A L L O W N E R S				MILITARY RESERVES AND PARKS				T O T A L			
S P E C I E S	4 - 6 DBH	7 - 9 DBH	10 + UP DBH	TOTAL	4 - 6 DBH	7 - 9 DBH	10 + UP DBH	TOTAL	4 - 6 DBH	7 - 9 DBH	10 + UP DBH	TOTAL	4 - 6 DBH	7 - 9 DBH	10 + UP DBH	TOTAL	4 - 6 DBH	7 - 9 DBH	10 + UP DBH	TOTAL
WHITE SPRUCE	1227	1413	1779	4420	123	121	138	383	5426	8151	7334	20912					6778	9685	9253	25716
SPRUCE-RED + BLACK	7698	6669	2841	17209	249	213	147	609	7308	5924	3788	17021					15255	12308	6776	34840
FIR	12818	14806	8413	36038	470	381	44	896	20426	16921	9946	47294					33716	32109	18403	84229
HEMLOCK		13		13					7	30	282	319					7	43	282	333
WHITE PINE	14	95	782	892	3			3	44	86	542	673					63	182	1325	1570
RED PINE									1			1					1			1
LARCH	788	678	371	1838	63	39		102	501	430	101	1033					1352	1149	472	2974
JACK PINE	160	21		181					211	70	23	305					371	92	23	487
SCOTCH PINE																				
CEDAR																				
TOTAL SOFTWOODS	22707	23699	14188	60594	910	755	330	1996	33929	31615	22019	87563					57547	56070	36537	150155
SUGAR MAPLE	498	1532	3480	5511	2	35	34	72	303	726	1436	2466					804	2295	4951	8051
RED MAPLE	3277	5874	8901	18054	102	116	180	398	4269	5303	7720	17293					7649	11294	16802	35746
YELLOW BIRCH	1266	4544	16238	22049	86	97	260	443	868	2680	9603	13152					2221	7321	26102	35645
WHITE BIRCH	688	993	718	2400	65	53	202	321	1451	1315	1082	3849					2205	2362	2003	6570
OAK									2			2					2			2
ASPEN					38	9		47	82	110	76	268					120	119	76	316
GREY BIRCH	6			6	3			3	7			7					17			17
WHITE ASH	24	61	34	120					44	109	130	283					68	170	164	403
BLACK ASH									31	68		100					31	68		100
CHERRY																				
ELM																				
BEECH	203	301	686	1192	2	14		16	277	586	637	1501					484	902	1323	2710
BALSAM POPLAR																				
MISCELLANEOUS									30	28	41	99					30	28	41	99
TOTAL HARDWOODS	5966	13308	30060	49335	301	325	677	1304	7368	10929	20728	39025					13635	24563	51466	89665
TOTAL FOREST LAND	28673	37007	44248	109930	1211	1081	1008	3301	41297	42544	42747	126589					71182	80634	88003	239820

ALL FIGURES ARE IN THOUSANDS CU.FT.

E S T I M A T E - GROSS CUBIC FT. VOLUMES ON FORESTED LAND BY COVER TYPE, DENSITY CLASSES, DBH GROUP AND OWNERSHIP CLASS

TOTALS ALL MUNICIPALITIES

37

O W N E R S H I P C L A S S

COVER TYPE AND DENSITY CLASS	CROWN LAND 4 - 6 DBH	CROWN LAND 7 - 9 DBH	CROWN LAND 10 + UP DBH	CROWN LAND TOTAL	LARGE OWNERS 4 - 6 DBH	LARGE OWNERS 7 - 9 DBH	LARGE OWNERS 10 + UP DBH	LARGE OWNERS TOTAL	SMALL OWNERS 4 - 6 DBH	SMALL OWNERS 7 - 9 DBH	SMALL OWNERS 10 + UP DBH	SMALL OWNERS TOTAL	MILITARY RESERVES AND PARKS 4 - 6 DBH	MILITARY RESERVES AND PARKS 7 - 9 DBH	MILITARY RESERVES AND PARKS 10 + UP DBH	MILITARY RESERVES AND PARKS TOTAL	TOTAL 4 - 6 DBH	TOTAL 7 - 9 DBH	TOTAL 10 + UP DBH	TOTAL TOTAL
SOFTWOOD LAND																				
UP TO 40%	3591	2105	2189	7885	467	439	165	1072	4443	4662	3638	12743					8501	7207	5993	21702
41% - 60%	11077	7141	4116	22336	3403	2845	2650	8899	19101	18617	14352	52070					33582	28604	21119	83306
61% - 80%	52522	48899	31767	133190	14108	17964	19820	51893	80757	84974	74101	239833					147389	151838	125690	424918
81% -100%	23178	19147	13082	55408	12270	13739	16067	42077	64313	68161	51009	183484					99761	101048	80159	280970
OVERSTOCKED	4241	1888	986	7117	2576	2028	1244	5849	12025	7434	4724	24184					18843	11352	6955	37151
TOTAL	94611	79183	52143	225938	32825	37018	39949	109793	180640	183850	147826	512317					308078	300052	239918	848049
MIXEDWOOD LAND																				
UP TO 40%	740	1135	2313	4189	71	14	47	134	1733	1338	2064	5135					2545	2488	4425	9459
41% - 60%	3945	6429	8793	19168	944	1120	1066	3131	7777	9409	10619	27806					12667	16959	20479	50106
61% - 80%	16852	24726	25349	66929	5739	8133	9562	23435	57509	62509	65863	185882					80101	95369	100776	276247
81% -100%	3350	3618	2911	9879	603	928	739	2271	16446	18424	17337	52208					20400	22971	20988	64360
OVERSTOCKED	123	88		211	86	16	29	132	2650	1340	503	4494					2859	1445	533	4838
TOTAL	25011	35999	39368	100379	7445	10212	11445	29103	86117	93022	96388	275529					118574	139235	147202	405012
HARDWOOD LAND																				
UP TO 40%	781	1642	3982	6406	18	96	244	358	352	525	2374	3253					1153	2264	6601	10019
41% - 60%	3423	4677	11003	19104	999	1591	3542	6134	3624	4425	5902	13951					8047	10694	20448	39190
61% - 80%	11050	13117	22435	46603	5435	6499	12105	24041	35918	36126	47495	119540					52404	55743	82037	190185
81% -100%	5596	6080	13503	25180	1370	1017	2157	4544	6071	6452	9773	22297					13038	13549	25434	52022
OVERSTOCKED	660	432	742	1835	9			9	511	64		576					1181	497	742	2421
TOTAL	21513	25950	51668	99131	7833	9205	18050	35089	46478	47593	65546	159619					75825	82749	135264	293839
ALL FOREST LAND																				
UP TO 40%	5112	4883	8485	18481	557	551	456	1565	6529	6526	8077	21133					12199	11960	17020	41180
41% - 60%	18446	18248	23914	60609	5347	5557	7259	18165	30503	32451	30874	93829					54297	56258	62047	172603
61% - 80%	80426	86744	79553	246724	25282	32597	41489	99370	174185	183610	187460	545256					279895	302951	308504	891351
81% -100%	32124	28846	29497	90468	14244	15684	18963	48893	86831	93038	78120	257990					133201	137569	126582	397353
OVERSTOCKED	5025	2410	1728	9164	2672	2045	1274	5991	15186	8840	5228	29255					22884	13295	8231	44412
TOTAL	141136	141133	143179	425449	48104	56436	69444	173986	313236	324467	309761	947465					502478	522036	522386	1546902

ALL FIGURES ARE IN THOUSANDS CU.FT.

E S T I M A T E - GROSS CUBIC FT. VOLUMES ON FORESTED LAND BY COVER TYPE, AGE CLASSES, DBH GROUP AND OWNERSHIP CLASSES

TOTALS ALL MUNICIPALITIES

38

O W N E R S H I P C L A S S

COVER TYPE AND AGE CLASS	CROWN LAND 4 - 6 DBH	CROWN LAND 7 - 9 DBH	CROWN LAND 10 + UP DBH	CROWN LAND TOTAL	LARGE OWNERS 4 - 6 DBH	LARGE OWNERS 7 - 9 DBH	LARGE OWNERS 10 + UP DBH	LARGE OWNERS TOTAL	SMALL OWNERS 4 - 6 DBH	SMALL OWNERS 7 - 9 DBH	SMALL OWNERS 10 + UP DBH	SMALL OWNERS TOTAL	MILITARY RESERVES AND PARKS 4 - 6 DBH	MILITARY RESERVES AND PARKS 7 - 9 DBH	MILITARY RESERVES AND PARKS 10 + UP DBH	MILITARY RESERVES AND PARKS TOTAL	TOTAL 4 - 6 DBH	TOTAL 7 - 9 DBH	TOTAL 10 + UP DBH	TOTAL TOTAL
SOFTWOOD LAND																				
UP TO 20YRS	598	434	622	1655	381	415	190	988	2180	1382	1562	5125					3160	2233	2375	7769
21YRS - 40YRS	9923	5022	2739	17685	2307	1503	1178	4989	27591	15510	7555	50657					39822	22036	11473	73332
41YRS - 60YRS	46945	35229	20354	102528	13290	15673	12569	41533	113718	125874	97844	337438					173954	176777	130768	481501
61YRS - 80YRS	27981	25802	17482	71267	10078	10877	13605	34562	31958	33393	29953	95305					70018	70074	61042	201135
81YRS -100YRS	8213	11473	9450	29137	5583	7041	9533	22157	4343	6250	8591	19185					18140	24764	27574	70480
101YRS OR MORE	869	1108	1279	3257	296	489	2031	2817	58	171	473	702					1223	1769	3785	6778
UNEVENAGED STANDS	79	112	214	405	887	1016	838	2742	790	1266	1844	3901					1757	2395	2897	7050
TOTAL	94611	79183	52143	225938	32825	37018	39949	109793	180640	183850	147826	512317					308078	300052	239918	848049
MIXEDWOOD LAND																				
UP TO 20YRS	335	331	296	964	143	68	216	429	1004	753	612	2369					1483	1153	1125	3763
21YRS - 40YRS	1041	799	622	2463	211	68	48	328	7022	4252	3059	14334					8275	5121	3730	17126
41YRS - 60YRS	6319	5720	5378	17418	3609	4749	4690	13049	46340	46078	43925	136345					56269	56549	53994	166813
61YRS - 80YRS	13049	22068	25235	60354	2338	3322	4212	9872	28795	37107	43247	109151					44183	62498	72695	179378
81YRS -100YRS	4112	6833	7545	18491	753	1284	1337	3375	2186	3875	4592	10655					7052	11993	13476	32522
101YRS OR MORE																				
UNEVENAGED STANDS	153	244	289	687	388	718	939	2046	766	954	950	2672					1308	1918	2179	5406
TOTAL	25011	35999	39368	100379	7445	10212	11445	29103	86117	93022	96388	275529					118574	139235	147202	405012
HARDWOOD LAND																				
UP TO 20YRS	71	70	127	269					310	445	1008	1764					382	516	1135	2034
21YRS - 40YRS	2920	2164	6388	11474	287	266	312	867	4597	2026	3487	10110					7805	4457	10189	22452
41YRS - 60YRS	7304	4405	7015	18725	2600	2146	2525	7272	21156	15275	15041	51473					31061	21828	24582	77471
61YRS - 80YRS	7916	13369	22978	44263	4146	5516	11241	20904	18579	27485	38933	84998					30641	46370	73153	150166
81YRS -100YRS	3167	5610	14805	23584	345	730	1765	2840	1526	1995	5770	9293					5039	8337	22341	35718
101YRS OR MORE					5	43	569	618	15	31	284	331					20	75	853	949
UNEVENAGED STANDS	132	328	352	813	449	501	1635	2586	292	333	1020	1646					874	1163	3009	5047
TOTAL	21513	25950	51668	99131	7833	9205	18050	35089	46478	47593	65546	159619					75825	82749	135264	293839
ALL FOREST LAND																				
UP TO 20YRS	1005	837	1046	2889	525	484	407	1418	3495	2581	3183	9259					5027	3903	4637	13567
21YRS - 40YRS	13885	7986	9750	31623	2806	1839	1539	6185	39211	21789	14102	75102					55903	31615	25393	112911
41YRS - 60YRS	60568	45355	32748	138672	19500	22570	19785	61856	181216	187229	156811	525257					261285	255155	209345	725786
61YRS - 80YRS	48948	61240	65696	175885	16562	19716	29060	65339	79333	97986	112135	289455					144844	178944	206892	530680
81YRS -100YRS	15494	23917	31801	71212	6682	9055	12636	28373	8057	12122	18955	39134					30233	45095	63392	138721
101YRS OR MORE	869	1108	1279	3257	301	533	2601	3436	73	202	757	1034					1244	1844	4638	7728
UNEVENAGED STANDS	365	685	856	1907	1724	2236	3414	7375	1850	2554	3815	8220					3940	5477	8086	17504
TOTAL	141136	141133	143179	425449	48104	56436	69444	173986	313236	324467	309761	947465					502478	522036	522386	1546902

ALL FIGURES ARE IN THOUSANDS CU.FT.

E S T I M A T E — GROSS CUBIC FT. VOLUMES ON FORESTED LAND BY COVER TYPE, SITE CLASSES, DBH GROUP AND OWNERSHIP CLASSES

TOTALS ALL MUNICIPALITIES

39

COVER TYPE AND SITE CLASS	OWNERSHIP CLASS: CROWN LAND 4 - 6 DBH	CROWN LAND 7 - 9 DBH	CROWN LAND 10 + UP DBH	CROWN LAND TOTAL	LARGE OWNERS 4 - 6 DBH	LARGE OWNERS 7 - 9 DBH	LARGE OWNERS 10 + UP DBH	LARGE OWNERS TOTAL	SMALL OWNERS 4 - 6 DBH	SMALL OWNERS 7 - 9 DBH	SMALL OWNERS 10 + UP DBH	SMALL OWNERS TOTAL	MILITARY RESERVES AND PARKS 4 - 6 DBH	MILITARY RESERVES AND PARKS 7 - 9 DBH	MILITARY RESERVES AND PARKS 10 + UP DBH	MILITARY RESERVES AND PARKS TOTAL	TOTAL 4 - 6 DBH	TOTAL 7 - 9 DBH	TOTAL 10 + UP DBH	TOTAL TOTAL
SOFTWOOD LAND																				
1									51	100	523	674					51	100	523	674
2																				
3	1542	2334	2655	6531	1296	2191	2826	6314	15990	18142	15836	49969					18829	22668	21317	62815
4	70332	62250	43231	175814	27142	31838	34741	93722	145665	156378	127698	429742					243140	250468	205672	699280
5	22609	14558	6256	43424	4356	2988	2380	9725	18870	9214	3767	31852					45836	26762	12404	85003
6	126	39		166	29			29	63	13		77					220	53		273
TOTAL	94611	79183	52143	225938	32825	37018	39949	109793	180640	183850	147826	512317					308078	300052	239918	848049
MIXEDWOOD LAND																				
1																				
2									256	27	55	340					256	27	55	340
3	51	35		87					955	1162	1093	3211					1007	1197	1093	3298
4	24079	34479	38088	96648	7118	9887	11033	28039	83245	90309	93700	267255					114442	134677	142823	391942
5	881	1483	1279	3644	327	325	412	1064	1659	1523	1539	4722					2867	3332	3230	9431
6																				
TOTAL	25011	35999	39368	100379	7445	10212	11445	29103	86117	93022	96388	275529					118574	139235	147202	405012
HARDWOOD LAND																				
1																				
2																				
3	360	256	659	1276					454	636	2318	3410					815	892	2978	4687
4	20719	25108	49923	95751	7572	9100	18050	34723	45674	46747	62871	155294					73966	80957	130845	285769
5	432	585	1084	2103	261	104		365	348	209	356	914					1043	899	1440	3383
6																				
TOTAL	21513	25950	51668	99131	7833	9205	18050	35089	46478	47593	65546	159619					75825	82749	135264	293839
ALL FOREST LAND																				
1									51	100	523	674					51	100	523	674
2									256	27	55	340					256	27	55	340
3	1954	2626	3314	7895	1296	2191	2826	6314	17401	19941	19248	56591					20652	24759	25389	70801
4	115131	121838	131244	368214	41833	50827	63825	156485	274585	293436	284271	852292					431550	466102	479341	1376993
5	23923	16628	8620	49172	4945	3417	2792	11155	20878	10947	5663	37489					49747	30993	17076	97817
6	126	39		166	29			29	63	13		77					220	53		273
TOTAL	141136	141133	143179	425449	48104	56436	69444	173986	313236	324467	309761	947465					502478	522036	522386	1546902

ALL FIGURES ARE IN THOUSANDS CU.FT.

E S T I M A T E - GROSS CUBIC FT. VOLUMES ON FORESTED LAND BY SPECIES, DBH GROUP AND OWNERSHIP CLASS

TOTALS ALL MUNICIPALITIES

40

40

O W N E R S H I P C L A S S

S P E C I E S	C R O W N L A N D 4 - 6 DBH	7 - 9 DBH	10 + UP DBH	TOTAL	L A R G E O W N E R S 4 - 6 DBH	7 - 9 DBH	10 + UP DBH	TOTAL	S M A L L O W N E R S 4 - 6 DBH	7 - 9 DBH	10 + UP DBH	TOTAL	MILITARY RESERVES AND PARKS 4 - 6 DBH	7 - 9 DBH	10 + UP DBH	TOTAL	T O T A L 4 - 6 DBH	7 - 9 DBH	10 + UP DBH	TOTAL
WHITE SPRUCE	3240	3510	3524	10275	1328	1744	2089	5162	46292	62127	62034	170455					50862	67382	67648	185893
SPRUCE-RED + BLACK	48192	43359	27066	118618	15293	19770	23814	58878	47600	48936	40878	137415					111087	112065	91759	314913
FIR	52957	44163	19896	117016	18383	18777	8591	45752	126629	105889	43409	275928					197970	168829	71897	438697
HEMLOCK	426	300	665	1392	6	64	562	633	4230	10426	23271	37928					4664	10791	24499	39955
WHITE PINE	404	1423	11369	13197	196	417	7487	8100	393	842	6203	7439					993	2683	25060	28738
RED PINE	1			1					296	354	183	833					297	354	183	835
LARCH	3187	2390	1656	7234	798	794	588	2181	2117	2062	916	5096					6104	5247	3161	14513
JACK PINE	231	25		256					305	82	26	414					536	107	26	670
SCOTCH PINE																				
CEDAR																				
TOTAL SOFTWOODS	108642	95172	64179	267994	36007	41567	43133	120708	227867	230721	176923	635513					372516	367462	284237	1024216
SUGAR MAPLE	4273	5339	12910	22524	2321	2452	5663	10437	16481	19294	29363	65138					23076	27085	47937	98100
RED MAPLE	17466	23403	26431	67302	6522	7457	8141	22121	31967	37428	40848	110244					55957	68289	75421	199668
YELLOW BIRCH	5782	11568	33512	50862	1503	2684	10588	14776	10672	15438	36113	62223					17957	29691	80214	127862
WHITE BIRCH	3583	4159	3090	10834	1198	1493	1076	3768	5868	4772	3608	14249					10651	10425	7775	28852
OAK									71	32	403	507					71	32	403	507
ASPEN	67	228	396	692	85	101	126	313	7739	7769	11958	27467					7892	8099	12481	28474
GREY BIRCH	30	20	40	91	30			30	4263	223	20	4506					4323	244	60	4628
WHITE ASH	97	131	155	385	31	35	24	91	1044	1554	1854	4452					1173	1721	2034	4929
BLACK ASH		26		26					153	201	101	456					153	228	101	483
CHERRY						16		16	58	56		115					58	73		131
ELM			283	283					64	104	743	912					64	104	1026	1195
BEECH	1167	1071	2179	4417	374	619	689	1684	6215	6258	7481	19955					7758	7949	10349	26057
BALSAM POPLAR									13			13					13			13
MISCELLANEOUS	23	12		35	31	8		40	758	611	342	1711					813	631	342	1786
TOTAL HARDWOODS	32494	45960	79000	157455	12098	14868	26310	53277	85369	93745	132837	311952					129962	154574	238149	522685
TOTAL FOREST LAND	141136	141133	143180	425449	48105	56436	69444	173986	313237	324467	309761	947465					502478	522036	522386	1546902

ALL FIGURES ARE IN THOUSANDS CU.FT.

E S T I M A T E – MERCH CUBIC FT. VOLUMES ON FORESTED LAND BY COVER TYPE, DENSITY CLASSES, DBH GROUP AND OWNERSHIP CLASS

TOTALS ALL MUNICIPALITIES

41

O W N E R S H I P C L A S S

COVER TYPE AND DENSITY CLASS	CROWN LAND 4 – 6 DBH	CROWN LAND 7 – 9 DBH	CROWN LAND 10 + UP DBH	CROWN LAND TOTAL	LARGE OWNERS 4 – 6 DBH	LARGE OWNERS 7 – 9 DBH	LARGE OWNERS 10 + UP DBH	LARGE OWNERS TOTAL	SMALL OWNERS 4 – 6 DBH	SMALL OWNERS 7 – 9 DBH	SMALL OWNERS 10 + UP DBH	SMALL OWNERS TOTAL	MILITARY RESERVES AND PARKS 4 – 6 DBH	MILITARY RESERVES AND PARKS 7 – 9 DBH	MILITARY RESERVES AND PARKS 10 + UP DBH	MILITARY RESERVES AND PARKS TOTAL	TOTAL 4 – 6 DBH	TOTAL 7 – 9 DBH	TOTAL 10 + UP DBH	TOTAL TOTAL
SOFTWOOD LAND																				
UP TO 40%	2428	1804	1986	6219	308	380	147	835	3043	3993	3271	10309					5780	6178	5405	17364
41% – 60%	7493	6142	3745	17381	2323	2441	2391	7156	12993	15934	12879	41807					22809	24518	19016	66344
61% – 80%	36069	42087	28847	107005	9803	15456	17890	43150	55064	72769	66583	194418					100938	130314	113321	344573
81% –100%	15916	16463	11870	44249	8459	11824	14634	34918	44249	58399	45853	148502					68625	86687	72359	227671
OVERSTOCKED	2758	1601	881	5241	1746	1746	1124	4618	7965	6353	4232	18551					12470	9700	6239	28411
TOTAL	64665	68099	47332	180097	22641	31849	36188	90679	123317	157449	132821	413588					210624	257398	216342	684366
MIXEDWOOD LAND																				
UP TO 40%	476	956	1995	3428	45	13	42	101	1110	1119	1782	4012					1633	2089	3820	7543
41% – 60%	2672	5412	7613	15699	624	951	930	2506	5107	7937	9203	22248					8404	14301	17748	40454
61% – 80%	11336	20806	22212	54354	3820	6855	8494	19170	37461	52722	57688	147872					52618	80384	88395	221398
81% –100%	2215	3044	2539	7799	402	790	655	1848	10840	15565	15297	41703					13458	19400	18492	51351
OVERSTOCKED	80	74		155	54	13	25	93	1666	1138	437	3242					1801	1227	463	3492
TOTAL	16781	30295	34361	81437	4948	8624	10148	23720	56186	78483	84410	219080					77916	117402	128920	324239
HARDWOOD LAND																				
UP TO 40%	472	1357	3358	5188	12	79	206	299	228	435	2011	2675					714	1872	5577	8164
41% – 60%	2152	3879	9344	15375	611	1318	3030	4960	2301	3680	5013	10995					5064	8878	17388	31332
61% – 80%	6808	10827	19070	36706	3343	5398	10318	19060	22125	29879	40464	92469					32276	46106	69853	148236
81% –100%	3270	5009	11462	19742	838	844	1848	3530	3720	5323	8345	17390					7829	11177	21657	40664
OVERSTOCKED	370	356	624	1352	5			5	298	54		352					674	411	624	1711
TOTAL	13074	21431	43861	78367	4811	7641	15404	27856	28674	39374	55836	123885					46560	68447	115102	230109
ALL FOREST LAND																				
UP TO 40%	3377	4118	7340	14836	366	472	397	1236	4383	5548	7065	16998					8127	10140	14804	33072
41% – 60%	12317	15434	20703	48456	3559	4711	6352	14623	20402	27552	27097	75052					36279	47698	54153	138131
61% – 80%	54214	73722	70130	198067	16967	27710	36702	81380	114651	155371	164737	434760					185833	256804	271571	714209
81% –100%	21402	24517	25872	71792	9700	13459	17138	40298	58809	79288	69497	207595					89913	117265	112508	319687
OVERSTOCKED	3209	2033	1506	6749	1807	1760	1150	4717	9929	7546	4670	22147					14947	11340	7327	33614
TOTAL	94521	119826	125555	339903	32401	48114	61740	142257	208178	275307	273069	756554					335101	443248	460365	1238715

ALL FIGURES ARE IN THOUSANDS CU.FT.

E S T I M A T E - MERCH CUBIC FT. VOLUMES ON FORESTED LAND BY COVER TYPE, AGE CLASSES, DBH GROUP AND OWNERSHIP CLASSES

TOTALS ALL MUNICIPALITIES

42

O W N E R S H I P C L A S S

COVER TYPE AND AGE CLASS	CROWN LAND 4 - 6 DBH	CROWN LAND 7 - 9 DBH	CROWN LAND 10 + UP DBH	CROWN LAND TOTAL	LARGE OWNERS 4 - 6 DBH	LARGE OWNERS 7 - 9 DBH	LARGE OWNERS 10 + UP DBH	LARGE OWNERS TOTAL	SMALL OWNERS 4 - 6 DBH	SMALL OWNERS 7 - 9 DBH	SMALL OWNERS 10 + UP DBH	SMALL OWNERS TOTAL	MILITARY RESERVES AND PARKS 4 - 6 DBH	MILITARY RESERVES AND PARKS 7 - 9 DBH	MILITARY RESERVES AND PARKS 10 + UP DBH	MILITARY RESERVES AND PARKS TOTAL	TOTAL 4 - 6 DBH	TOTAL 7 - 9 DBH	TOTAL 10 + UP DBH	TOTAL TOTAL
SOFTWOOD LAND																				
UP TO 20YRS	394	365	554	1314	265	352	165	783	1386	1171	1407	3965					2046	1890	2127	6063
21YRS - 40YRS	6533	4286	2448	13267	1508	1286	1046	3840	18306	13260	6739	38306					26348	18832	10233	55414
41YRS - 60YRS	31933	30264	18414	80612	9116	13481	11334	33933	78119	107809	87877	273806					119170	151555	117626	388352
61YRS - 80YRS	19368	22211	15904	57484	6998	9347	12321	28667	21982	28644	26994	77620					48349	60203	55219	163772
81YRS -100YRS	5779	9917	8650	24346	3924	6088	8713	18725	2945	5339	7731	16015					12648	21344	25094	59087
101YRS OR MORE	607	958	1164	2731	196	422	1870	2489	37	145	413	596					842	1526	3448	5818
UNEVENAGED STANDS	50	94	195	341	629	870	736	2237	538	1079	1658	3276					1218	2045	2591	5855
TOTAL	64665	68099	47332	180097	22641	31849	36188	90679	123317	157449	132821	413588					210624	257398	216342	684366
MIXEDWOOD LAND																				
UP TO 20YRS	222	279	258	761	92	57	186	336	630	637	531	1799					945	974	976	2897
21YRS - 40YRS	647	678	531	1857	133	58	42	234	4350	3613	2688	10652					5131	4350	3262	12745
41YRS - 60YRS	4189	4802	4730	13723	2379	4024	4141	10545	30122	38918	38567	107608					36691	47745	47440	131877
61YRS - 80YRS	8816	18576	21873	49265	1579	2790	3748	8118	19113	31260	37836	88209					29508	52627	63457	145594
81YRS -100YRS	2808	5752	6718	15279	509	1092	1197	2799	1468	3248	3964	8682					4787	10093	11880	26761
101YRS OR MORE																				
UNEVENAGED STANDS	96	206	247	550	254	600	831	1686	501	802	822	2126					851	1610	1901	4363
TOTAL	16781	30295	34361	81437	4948	8624	10148	23720	56186	78483	84410	219080					77916	117402	128920	324239
HARDWOOD LAND																				
UP TO 20YRS	46	59	108	214					189	372	863	1426					236	432	972	1640
21YRS - 40YRS	1600	1798	5427	8827	140	223	273	637	2590	1698	2991	7279					4331	3721	8692	16745
41YRS - 60YRS	4293	3619	5968	13882	1591	1784	2159	5534	12833	12615	12901	38350					18718	18019	21029	57767
61YRS - 80YRS	5058	11031	19539	35629	2580	4574	9622	16776	11886	22738	33105	67731					19525	38344	62267	120137
81YRS -100YRS	1990	4648	12522	19160	235	611	1505	2352	993	1647	4890	7531					3219	6907	18918	29045
101YRS OR MORE					3	35	474	513	10	25	241	277					14	61	715	791
UNEVENAGED STANDS	84	273	294	652	260	412	1368	2041	169	276	841	1287					514	962	2505	3981
TOTAL	13074	21431	43861	78367	4811	7641	15404	27856	28674	39374	55836	123885					46560	68447	115102	230109
ALL FOREST LAND																				
UP TO 20YRS	663	704	921	2289	358	409	351	1119	2206	2182	2802	7191					3228	3296	4076	10601
21YRS - 40YRS	8781	6763	8407	23952	1782	1568	1361	4713	25247	18572	12419	56239					35811	26904	22189	84905
41YRS - 60YRS	40416	38686	29114	108217	13087	19289	17635	50013	121076	159343	139346	419765					174580	217320	186096	577997
61YRS - 80YRS	33243	51819	57316	142379	11158	16712	25692	53562	52982	82643	97936	233561					97383	151175	180945	429504
81YRS -100YRS	10578	20317	27891	58787	4668	7792	11416	23877	5407	10236	16586	32230					20654	38345	55894	114895
101YRS OR MORE	607	958	1164	2731	200	457	2345	3003	48	171	654	874					856	1587	4164	6609
UNEVENAGED STANDS	231	574	738	1544	1144	1883	2937	5965	1208	2158	3322	6690					2585	4617	6998	14200
TOTAL	94521	119826	125555	339903	32401	48114	61740	142257	208178	275307	273069	756554					335101	443248	460365	1238715

ALL FIGURES ARE IN THOUSANDS CU.FT.

E S T I M A T E - MERCH CUBIC FT. VOLUMES ON FORESTED LAND BY COVER TYPE, SITE CLASSES, DBH GROUP AND OWNERSHIP CLASSES

TOTALS ALL MUNICIPALITIES

COVER TYPE AND SITE CLASS	OWNERSHIP CLASS: CROWN LAND 4 - 6 DBH	CROWN LAND 7 - 9 DBH	CROWN LAND 10 + UP DBH	CROWN LAND TOTAL	LARGE OWNERS 4 - 6 DBH	LARGE OWNERS 7 - 9 DBH	LARGE OWNERS 10 + UP DBH	LARGE OWNERS TOTAL	SMALL OWNERS 4 - 6 DBH	SMALL OWNERS 7 - 9 DBH	SMALL OWNERS 10 + UP DBH	SMALL OWNERS TOTAL	MILITARY RESERVES AND PARKS 4 - 6 DBH	MILITARY RESERVES AND PARKS 7 - 9 DBH	MILITARY RESERVES AND PARKS 10 + UP DBH	MILITARY RESERVES AND PARKS TOTAL	TOTAL 4 - 6 DBH	TOTAL 7 - 9 DBH	TOTAL 10 + UP DBH	TOTAL TOTAL
SOFTWOOD LAND																				
1									36	85	477	600					36	85	477	600
2																				
3	1079	2011	2431	5523	901	1885	2552	5339	11096	15534	14216	40847					13077	19432	19200	51711
4	48068	53502	39198	140769	18726	27396	31471	77594	99397	133923	114725	348047					166192	214823	185395	566411
5	15434	12550	5702	33687	2995	2567	2164	7726	12748	7893	3401	24043					31178	23011	11268	65458
6	82	34		116	18			18	37	11		49					138	45		184
TOTAL	64665	68099	47332	180097	22641	31849	36188	90679	123317	157449	132821	413588					210624	257398	216342	684366
MIXEDWOOD LAND																				
1																				
2									154	23	50	227					154	23	50	227
3	35	30		65					619	992	959	2570					654	1022	959	2636
4	16152	29007	33253	78413	4731	8347	9791	22870	54306	76185	82062	212554					75190	113540	125106	313838
5	593	1257	1108	2958	216	276	356	850	1106	1281	1339	3727					1917	2816	2804	7537
6																				
TOTAL	16781	30295	34361	81437	4948	8624	10148	23720	56186	78483	84410	219080					77916	117402	128920	324239
HARDWOOD LAND																				
1																				
2																				
3	221	211	572	1004					298	530	1949	2777					519	742	2521	3782
4	12585	20736	42365	75687	4665	7555	15404	27625	28153	38669	53585	120408					45404	66961	111355	223722
5	266	483	923	1674	146	85		231	222	173	301	698					635	743	1225	2604
6																				
TOTAL	13074	21431	43861	78367	4811	7641	15404	27856	28674	39374	55836	123885					46560	68447	115102	230109
ALL FOREST LAND																				
1									36	85	477	600					36	85	477	600
2									154	23	50	227					154	23	50	227
3	1336	2253	3003	6593	901	1885	2552	5339	12014	17057	17124	46196					14252	21196	22681	58130
4	76806	103246	114817	294871	28123	43299	56666	128089	181857	248779	250374	681011					286787	395325	421858	1103972
5	16295	14291	7734	38321	3358	2929	2521	8809	14077	9348	5042	28469					33731	26570	15297	75599
6	82	34		116	18			18	37	11		49					138	45		184
TOTAL	94521	119826	125555	339903	32401	48114	61740	142257	208178	275307	273069	756554					335101	443248	460365	1238715

ALL FIGURES ARE IN THOUSANDS CU.FT.

E S T I M A T E - MERCH CUBIC FT. VOLUMES ON FORESTED LAND BY SPECIES, DBH GROUP AND OWNERSHIP CLASS

TOTALS ALL MUNICIPALITIES

44

	O W N E R S H I P C L A S S																			
	C R O W N L A N D				L A R G E O W N E R S				S M A L L O W N E R S				MILITARY RESERVES AND PARKS				T O T A L			
S P E C I E S	4 - 6 DBH	7 - 9 DBH	10 + UP DBH	TOTAL	4 - 6 DBH	7 - 9 DBH	10 + UP DBH	TOTAL	4 - 6 DBH	7 - 9 DBH	10 + UP DBH	TOTAL	4 - 6 DBH	7 - 9 DBH	10 + UP DBH	TOTAL	4 - 6 DBH	7 - 9 DBH	10 + UP DBH	TOTAL
WHITE SPRUCE	2302	3000	3178	8481	932	1493	1883	4309	32673	53166	55883	141723					35908	57660	60946	154515
SPRUCE-RED + BLACK	34005	37581	24642	96229	10935	17170	21742	49848	33733	42441	37149	113323					78674	97192	83534	259401
FIR	35497	37927	18107	91532	12442	16138	7822	36403	84951	90966	39461	215379					132891	145032	65391	343315
HEMLOCK	276	251	600	1128	3	54	510	569	2877	8730	20982	32590					3157	9035	22093	34287
WHITE PINE	304	1333	10730	12368	150	390	7060	7601	309	789	5849	6948					764	2513	23640	26918
RED PINE									230	330	173	734					230	330	173	735
LARCH	2214	2072	1503	5790	565	689	529	1784	1523	1789	825	4138					4303	4551	2858	11713
JACK PINE	160	21		181					212	70	23	306					372	92	23	488
SCOTCH PINE																				
CEDAR																				
TOTAL SOFTWOODS	74761	82188	58763	215713	25030	35936	39549	100516	156511	198284	160349	515145					256303	316410	258661	831375
SUGAR MAPLE	2549	4371	10914	17834	1390	2010	4780	8181	10014	15774	24761	50550					13954	22155	40456	76567
RED MAPLE	10481	19161	22402	52045	3976	6101	6896	16973	19387	30616	34595	84598					33845	55878	63894	153618
YELLOW BIRCH	3697	9474	28270	41442	909	2201	8887	11999	6517	12642	30384	49544					11125	24318	67542	102986
WHITE BIRCH	2184	3403	2621	8209	747	1220	911	2879	3498	3896	3050	10445					6430	8520	6582	21533
OAK									38	26	335	400					38	26	335	400
ASPEN	48	199	354	601	58	87	112	259	4964	6718	10685	22369					5071	7005	11152	23229
GREY BIRCH	16	16	34	67	16			16	2174	179	17	2370					2206	195	51	2454
WHITE ASH	59	107	131	299	18	29	21	69	647	1267	1566	3481					726	1404	1719	3850
BLACK ASH		22		22					100	163	85	350					100	186	85	372
CHERRY						13		13	34	46		80					34	59		93
ELM			228	228					42	86	607	736					42	86	835	964
BEECH	706	874	1834	3414	234	507	581	1323	3788	5106	6340	15236					4729	6488	8755	19974
BALSAM POPLAR									9			9					9			9
MISCELLANEOUS	15	9		24	20	6		25	452	497	290	1239					487	512	291	1290
TOTAL HARDWOODS	19760	37637	66791	124189	7371	12178	22191	41741	51666	77022	112720	241409					78798	126838	201703	407340
TOTAL FOREST LAND	94521	119826	125555	339903	32401	48114	61740	142257	208178	275307	273069	756554					335101	443248	460365	1238715

ALL FIGURES ARE IN THOUSANDS CU.FT.