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Northeastern Forest  
Experiment Station

Resource Bulletin NE-102



# Forest-land owners of Vermont—1983

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Abstract

Knowing the attitudes and objectives of forest-land owners is the key to understanding Vermont's forest resources. An estimated 61,900 private ownership units hold 3,992,600 acres or 90 percent of the timberland in the State. Private individuals own the majority of these acres--77 percent of the private timberland. White collar workers, with 37 percent, own the largest share of individually owned timberland, followed by retired persons with 22 percent. Sixty-two percent of the private owners holding 81 percent of the private forest land have harvested trees from their land. Benefits other than timber production are most important to a majority of Vermont landowners. Eighty-six percent of the private timberland acreage is owned by those who gave reasons other than timber production as their primary reason for owning timberland. Estimates indicate that the annual growth on timberland owned by those who intend to harvest trees is sufficient to meet present demands.

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# FOREST-LAND OWNERS OF VERMONT--1983

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## CONTENTS

Highlights .....	1
Introduction.....	2
Background.....	2
Two Geographic Units .....	2
Who Owns Vermont's Timberland?.....	3
Corporate Ownership .....	3
Characteristics of Individual Forest-land Owners.	4
Indicators of Forest Management Potential.....	5
Owner Objectives.....	6
Who Harvests Timber and Why?.....	7
Why Many Owners Have Not Harvested .....	7
Predicting Timber Harvesting Behavior.....	8
How Much Timber Is Available?.....	9
Products Harvested.....	10
Forestry Assistance.....	11
Recreation.....	11
Opinion Statements.....	11
Landowner Communications .....	12
Conclusion .....	13
Literature Cited.....	13
Appendix .....	14
Study Method.....	14
Data Accuracy and Reliability.....	15
Definition of Terms.....	15
Questionnaire.....	17
Index to Tables.....	29

## Highlights

- An estimated 61,900 private owners hold 3,992,600 acres of timberland in Vermont. This is 90 percent of the timberland in the state.
- Private individuals own 3,092,600 acres of timberland, 77 percent of Vermont's private timberland.
- Forest industries own 409,600 acres, 10 percent of the privately owned timberland in Vermont.
- White-collar workers own the largest share of individually owned timberland with 37 percent, followed by retired persons with 22 percent.
- Sixty-two percent of the private owners have harvested trees from their land; they own 81 percent of the private forest land.
- Benefits other than timber production are most important to a majority of Vermont landowners. Eighty-six percent of the private timberland acreage is owned by those who gave reasons other than timber production as their primary reason for owning timberland.
- Estimates indicate that the annual growth on timberland owned by those who intend to harvest trees is sufficient to meet present demands.
- Owners of more than 90 percent of Vermont's timberland intend to harvest timber at some time in the future.



## Introduction

Our forest resources are vital to the social and economic well-being of our society. Good decisionmaking about these resources requires a thorough knowledge of the resource base and the factors affecting it. In this publication we estimate the number and characteristics of the private forest-land ownerships in Vermont. We describe attitudes of typical forest-land owners, their views about timber harvesting, forest management, and recreational uses of their land. For a clearer understanding of timber availability, data describing the physical resource (Frieswyk and Malley 1985) need to be related to the objectives and attitudes of forest-land owners. One of the first of these studies was conducted in Vermont in 1973 (Kingsley and Birch 1977). This new study was conducted to determine the current ownership situation. Results of this study will provide valuable information to public agencies in planning and evaluating forestry programs, to forest industry in procuring timber, and to others interested in learning about Vermont's diverse forest-land owners and in following trends in land tenure.

Studying landowners is important because these owners have legal rights and responsibilities relating to forest land. Their rights include decisions on how the land will be used, the type and level of investment, and when to sell the land. An owner must make responsible decisions subject to the rules and regulations established within society to avoid infringement upon the rights, health, and safety of others. Ownership links the people and the land. Besides producing income, land serves as a store of wealth for the owner (Lewis 1980, Wunderlich 1978).

Ownership unit and other terms are defined in the Appendix. Owners may be persons, combinations of persons, or legal entities such as corporations, partnerships, clubs, and trusts. An ownership unit has control of a parcel or group of parcels of land. Our sampling frame is drawn from the land itself (parcel by parcel), and the owner of record (the apparent owner) is determined. A questionnaire is mailed, and an individual who has control of an amount of land (not exclusively the parcel sampled) responds.

The results presented here have been statistically expanded from a sample to estimate the total population of private ownership units and the acreage they own. Users are advised to read the definition of terms and the discussion of the sampling design and sampling errors in the Appendix.

## Background

In 1983 there were an estimated 4.5 million acres of forest land in Vermont, covering 77 percent of the land area. Of these forested

acres, 122,300 acres are excluded from the timberland base because they are unproductive or reserved from harvesting. The total acreage of forest land classified as timberland is 4.4 million acres (Frieswyk and Malley 1985).

Timberland can be divided into two broad ownership categories, public and private. Total public ownership of timberland equals 429,500 acres or 10 percent of the total timberland in the state: 183,100 acres in National Forest, 8,600 acres in other federal ownership, 187,200 acres in State ownership, and 50,600 acres in county and municipal ownership (Table 1). Privately owned timberland equals 4.0 million acres. The owners of these private lands are a diverse group including individuals, corporations, partnerships, and trusts. These are the ownerships that this report is primarily concerned with.

## Two Geographic Units

The survey recognized that Vermont is not homogeneous. Therefore, the data were collected, analyzed, and presented for two geographic units (Fig. 1). Each unit was delineated to be as homogeneous as possible in the resource base but not in ownership characteristics. Each unit contains 2.2 million acres of timberland and the predominant forest type in both units is northern hardwoods. Counties in the Northern Unit are Caledonia, Essex, Franklin, Grand Isle, Lamoille, Orange, Orleans, and Washington. Counties in the Southern Unit are Addison, Bennington, Chittenden, Rutland, Windham, and Windsor. These units have sufficient numbers of responses to ensure confidentiality of individual responses and reliable levels of sampling errors. For detailed timber resource information, readers are encouraged to read "Forest Statistics for Vermont--1973 and 1983" (Frieswyk and Malley 1985).

The Southern Unit has almost twice as many private ownership units as the Northern Unit (Table 2). The difference in the number of owners is most pronounced in the ownerships between 1 and 20 acres. The Southern Unit has an estimated 22,800 owners with less than 20 acres, compared to the Northern Unit with an estimated 3,400 owners in this range. In contrast, if only the owners with more than 50 acres are considered, the distribution of owners by size class becomes similar for both units: roughly 10,000 owners with holdings over 50 acres.

The distribution of acreage by size class shows more acreage in the smaller size classes in the Southern Unit than the Northern. Six percent of the private timberland in the Southern unit is held in ownerships with less than 20 acres. Most of these are individuals whose timberland is part of their residence. The Northern Unit has more of its timberland in very large ownerships, 18 percent of its acreage is in



## STATE TOTALS

61,900 Owners

3,992,600 Acres

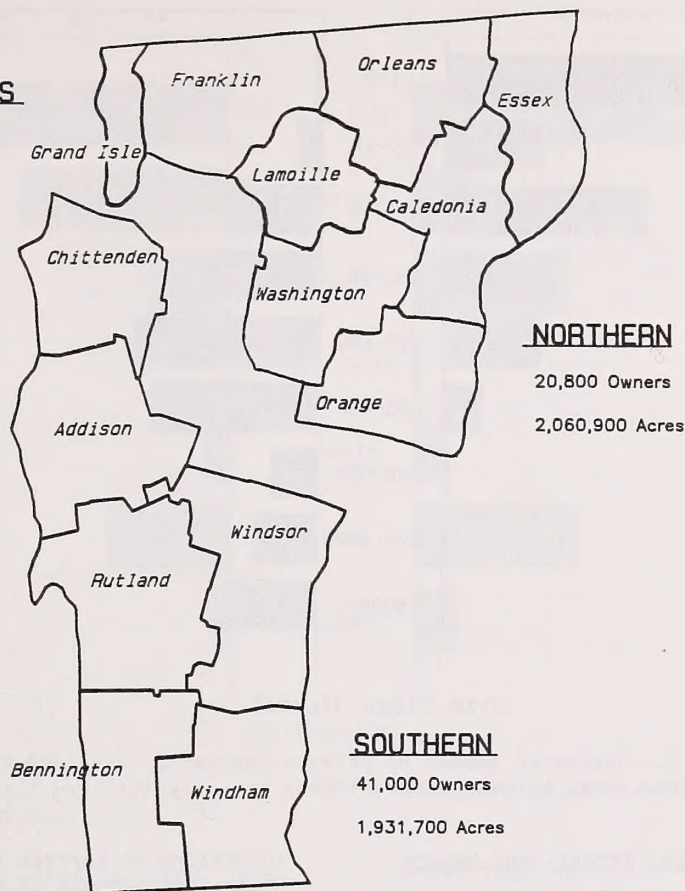


Figure 1.--Distribution of private ownerships, in Vermont by geographic units, 1983.

ownerships over 5,000 acres. Corporations own most of these acres. In the State, the ownerships between 50 and 500 acres in size account for three-fifths of the total acreage (Fig. 2).

### Who Owns Vermont's Timberland?

Forest industry owns 409,600 acres (10 percent) of the privately owned timberland in Vermont. To be included as forest industry an owner must operate a wood processing plant. Three-fourths of this industrial land is in the Northern Unit (Table 3). The owners of this land are homogeneous in objectives and reasons for owning timberland, primarily producing timber. Nonindustrial private timberland owners (includes individual, farmer-owned, corporate, and other) own 3,583,000 acres. This group of owners has a wide range of objectives and reasons for owning forest land. Individual ownerships make up the majority of nonindustrial owners. Many forestry programs have focused on nonindustrial private landowners because of the large acreage they control in the Eastern United States and their potential to supply timber.

### Corporate Ownership

An estimated 1,000 corporations own 575,200 acres (13 percent) of Vermont's timberland (Table 5). These corporations are involved in many different businesses. Corporations engaged in timber-based industries hold 7 percent of the timberland or 321,700 acres (there is also an additional 87,900 acres of unincorporated forest industry timberland). Some firms consider themselves as forest industry and manage their lands primarily for timber production but lack primary processing facilities; they are included here as real estate companies. Real estate firms hold 188,300 acres of timberland, 43,700 acres of which are in corporate ownership. An estimated 100 corporate farms own 34,900 acres, 1 percent of the timberland in Vermont, these acres represent 4 percent of the farmer-owned timberland. The remaining corporate acreage is owned by sport and recreation clubs, public utilities, and other corporations, totaling 174,900 acres, 4 percent of the timberland.



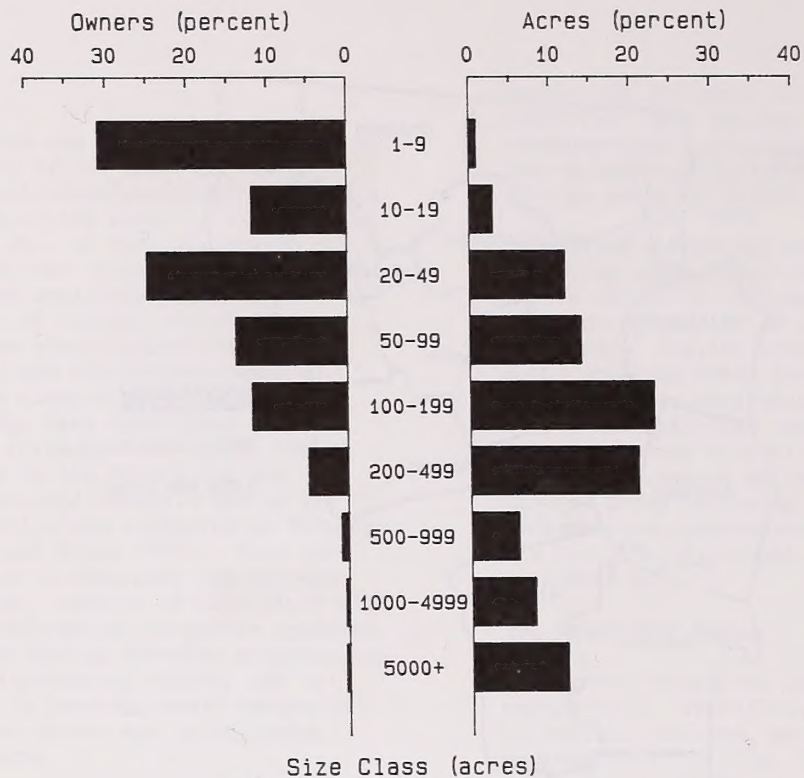


Figure 2.--Estimated number of private ownership units and acres of timberland owned by size class, 1983.

#### Characteristics of Individual Forest-land Owners

Private individuals account for 95 percent of Vermont's timberland owners. These people come from many walks of life (Fig. 3). It was estimated that 35 percent of these individuals are white collar workers, 29 percent are blue collar workers, 17 percent retired persons, and 11 percent farmers. There are twice as many individual owners in the Southern Unit of the state as the Northern Unit (Table 3). The average acreage per owner is 80 acres in the Northern Unit compared with 38 acres in the Southern Unit. White collar workers make up the largest group of owners in the North and blue collar workers make up the largest group of owners in the South. Statewide white collar workers own the largest share of the timberland with 37 percent, followed by retired persons with 22 percent, and farmers with 21 percent (Table 6).

The large number of retired forest-land owners is reflected in the age distribution of the owners. It was estimated that 73 percent of the owners are over 45 years old and one-fifth are over 65 (Table 8). Persons over 65 years old hold almost a quarter of the timberland in the state. Although it could be expected that an older person's long-term objectives in owning forest land could differ from younger owners, there was no significant difference between retired persons and other owners when it came to

intentions to harvest in the next 10 years. Sixty-five percent of the retired persons stated that they intended to harvest timber in the next 10 years. This large portion of older owners could have a significant effect on the future timber resource. Many of these ownerships will probably be transferred to new owners in the near future. The transfer of ownership after death in an unplanned or minimally planned estate can cause numerous difficulties. Lack of liquidity for estate taxes and probate costs can be especially acute with forested estates because of the long-term investment period, sporadic income and generally low cash flows relative to market value of assets (Haney and Siegel 1983). Retirees who are not interested in wildlife or general forestry topics may be motivated to manage their forests by programs on taxation, estate planning, and marketing forest products (Birch and Pywell 1986). Information on selecting and working with consulting foresters could be of special interest to this group.

An estimated 6,400 individual owners whose primary occupation is farming own 658,000 acres of forest land in Vermont (Table 6). There are also 100 corporate farms and 1,000 farms held by partnerships that hold a total of 95,100 acres. In addition, 2,100 part-time farmers hold 221,000 acres of forest land as part of their farm. In total, 9,600 farmers own 974,200 acres of forest land. The average acreage of forest



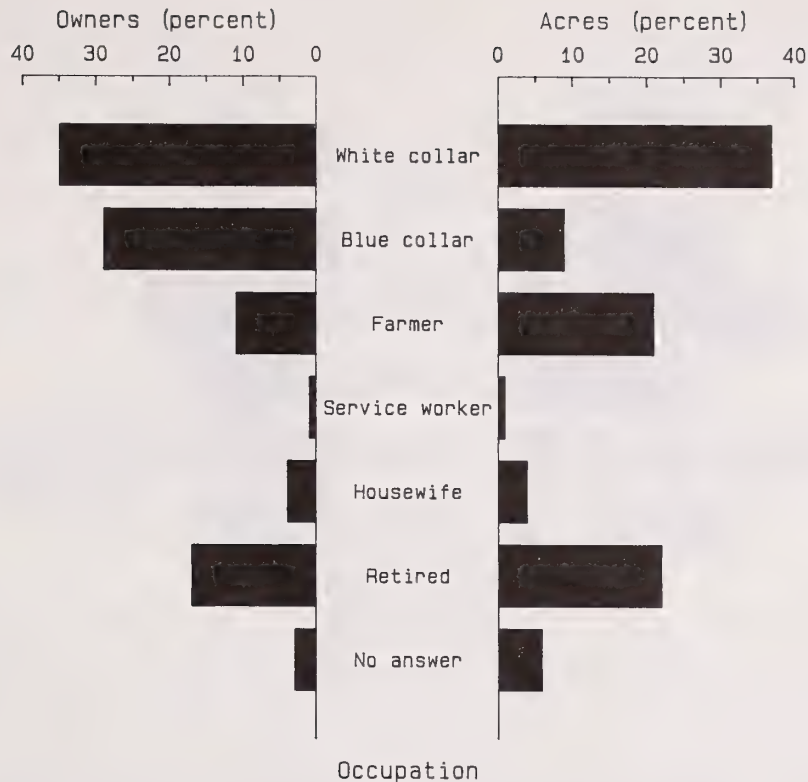


Figure 3.--Distribution of individual ownerships, by owner occupation, 1983.

land held by farmers is 101 acres per farm. The 1982 Census of Agriculture estimated that there were 4,913 farms with 617,112 acres of woodland in Vermont or 126 acres of woodland per farm (U.S. Bureau of Census 1984). The Bureau of Census figures do not include many part time farmers and underestimates the number of small farms.

When we look at intention to harvest by individual owners, 64 percent of the owners with 78 percent of the individually owned forest land intend to harvest trees from their land in the next 10 years (Table 7). Farmers are the most likely group to harvest with 86 percent stating that they intended to harvest in the next 10 years. Owners who intend to harvest at sometime in the future but are indefinite as to when, represent 16 percent of the owners and 12 percent of the forest land owned by individuals. Those owners who never intend to harvest represent 13 percent of the owners with 4 percent of the acreage.

Other demographic information gathered by this study provides us with a general description of Vermont's individual forest-land owners (Tables 9 to 11). Sixty-nine percent of the owners have been educated beyond high school, while only 4 percent have 8 years or less of formal education. The majority (54 percent) of the owners had incomes over \$30,000 per year, even though 17 percent of those surveyed declined to

answer this question. Also 58 percent of the owners reported growing up (first 12 years of life) in a city or town of more than 10,000 people.

#### Indicators of Forest Management Potential

The ownership of forest land is not static and because of the long-term commitment involved in growing trees, length of tenure is important to effective forest management. The duration of ownership can be considered an indicator of forest management potential (Birch and Pywell 1986). The average forest land tenure was found to be 20 years. Fifty-five percent of the individual owners holding 42 percent of the private acreage acquired their forest land between 1950-69 (Table 13, Fig. 4). While a small number of forest industries have held the majority of industrial land since 1950, many industries with smaller holdings have acquired land since 1973. This is probably caused by industrial expansion and by the changes in ownership of existing wood industries.

Miscellaneous individuals (individuals other than farmers) have acquired the most forest land in recent years. Between 1973 and 1984, 537,900 acres were acquired by 11,400 owners in this group (Table 12). Other groups of owners are well distributed by decade of acquisition from 1940-84.

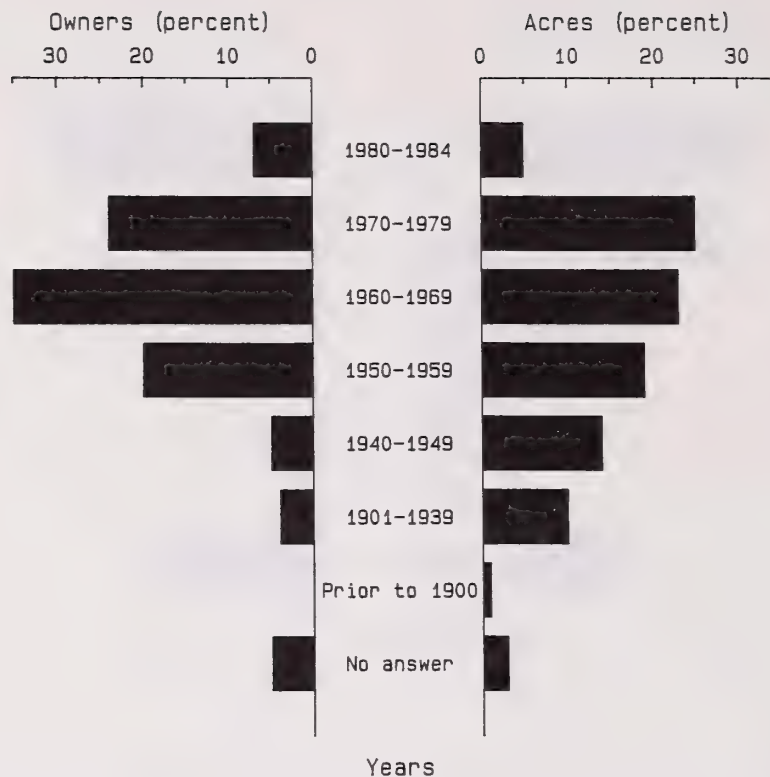


Figure 4.--Distribution of individual ownerships, by year owner first acquired woodland, 1983.

Where an owner resides in relation to a forest property and how many scattered tracts an owner has may be important to people who deliver various types of forestry assistance. Travel costs and time needed to travel may make it inconvenient to get to distant tracts. Also some owners may feel that more risk is involved in managing tracts that cannot be visited frequently. An estimated 53 percent of the ownership units have residences or business headquarters within a mile of their nearest tract (Table 14). Eighty-two percent of the owners have only one tract and hold 52 percent of the forest acreage. Many of the small ownerships are included in this group. Ownership units who own six or more tracts include many of the corporate owners; although they only account for 1 percent of the ownerships, they hold 16 percent of the forest land.

It was estimated that there are 10,900 owners with more than one tract of forest land (Table 16). Most of these owners are still reasonably close to all their forest land, 5,700 are within 25 miles of their farthest tract. There are 7,200 single tract owners and 700 multitract owners located more than 100 miles from their nearest tract. These are most likely to be out-of-state owners and have over half a million acres of forest land. Owners without a residence or office near their forest land can be difficult to contact but may be likely to

need the services of a professional to manage their lands.

#### Owner Objectives

Since forest lands produce many benefits for owners, it is not surprising that landowners express diverse reasons for owning forest lands. Not all the potential benefits from forests are competitive with each other, some benefits can be produced with no effect on others, and some benefits even increase when others are produced. The owners sampled in this study were asked their primary reasons for owning forest land, which benefits were most important in the last 10 years, and which were expected to be most important in the next 10 years.

The principal reason given for owning forest land was that the land is either part of a residence or farm. Forty-three percent of the owners gave this as their primary reason and another 14 percent gave it as their secondary reason (Table 17, 18, Fig. 5). So, 1.5 million acres are owned with forest land being part of a farm or residence as a reason for ownership. Timber production was given as a primary reason by only 1 percent of the owners and as a secondary reason by 2 percent. These ownerships are large in size and control 23 percent of the private forest land. Although timber production ranks low as a reason for owning forest land,



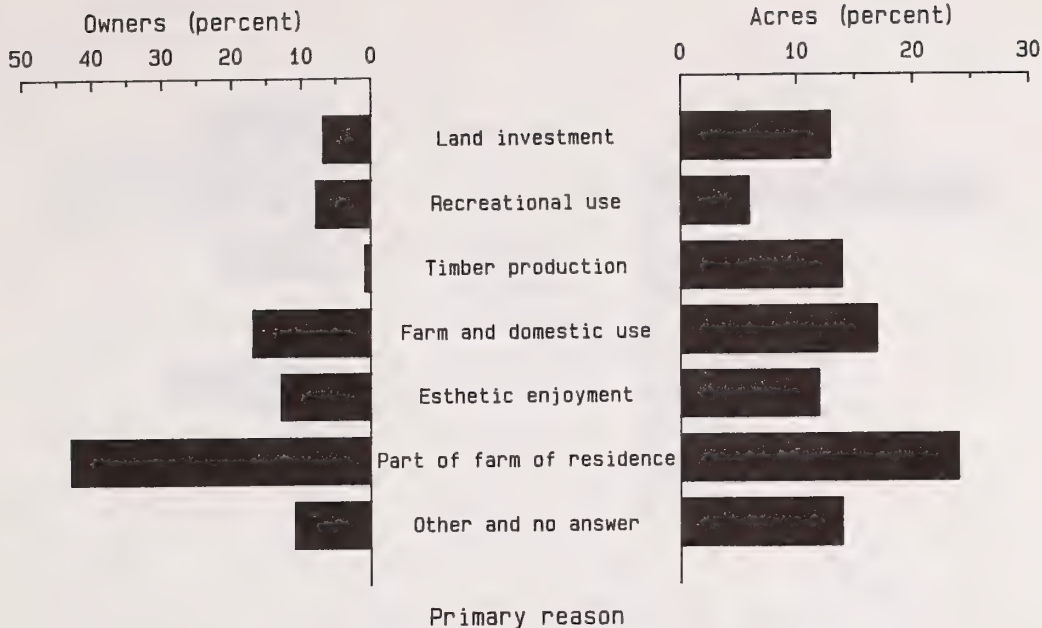


Figure 5.--Distribution of private ownerships, by primary reason for owning forest land, 1983.

two-thirds of the owners with three-fourths of the forest land expect to harvest trees in the next 10 years (Table 19).

In the last 10 years the primary benefit received from owning forest land was esthetic enjoyment. Thirty-nine percent of the owners with 1,146,500 acres gave this as their primary benefit. Esthetic enjoyment is also the most frequently given benefit expected to be received in the next 10 years (Table 22). The sale of timber was second in benefits expected on an area basis and fuelwood was second by number of owners in the next 10 years. More owners expect the sale of timber to be their primary benefit in the next 10 years than in the last 10 years. Of the owners expecting to harvest in the next 10 years, the sale of timber and firewood together are the most frequently given benefits. Other primary benefits expected by those who plan to harvest are: farm and domestic use, land value increase, esthetic enjoyment, recreational use, and other. For individual owners, timber production is not the primary reason given for ownership, though generally they are not opposed to timber harvesting. This group of owners has a high potential to practice timber management on their lands if properly motivated (Marler and Graves 1974, Birch and Pywell 1986).

#### Who Harvests Timber and Why?

The majority of Vermont landowners has a positive attitude toward timber harvesting. An estimated 38,500 ownership units (62 percent) have harvested trees from their land in the past (Table 25). They own 3,244,900 acres or 81 percent of the private forest land. Fifty-five percent of those who have harvested did so for

their own use (Fig. 6). Most of this was for firewood. The size of ownership influences why harvesting is undertaken. The average acreage owned by those who have harvested for their own use is 41 acres, while the average acreage of those who harvested for all other reasons was 136 acres. Other reasons for harvesting trees and percent of owners represented are: cultural treatment (13 percent), timber mature (10 percent), and needed money (7 percent).

The degree of harvesting varies with the type of owner. Forest industry had the highest degree of harvesting. All the industrial forest owners surveyed were harvesters. These are the largest ownership units, averaging more than 1,000 acres per owner. Their reasons for harvesting were for own use, timber mature, and other. Two-thirds of corporate owners harvested trees. These ownership units average 350 acres in size, and the reasons for harvesting were to improve recreation, cultural treatment, and timber mature. Farmers also had high levels of harvesting. It was estimated that 83 percent of the farmers harvested trees. Farmers averaged 112 acres per owner and gave many reasons for harvesting. The majority of the farmers harvested for their own use followed by those who harvested because their timber was mature. Individuals had the lowest harvesting level, 58 percent harvested trees. These owners had the smallest average acreage, 53 acres, and had the most diverse reasons for harvesting (Table 24).

#### Why Many Owners Have Not Harvested

Thirty-eight percent of the private ownership units in Vermont have never harvested timber. The average acreage for these owners is small, 32 acres, but together their total holdings are

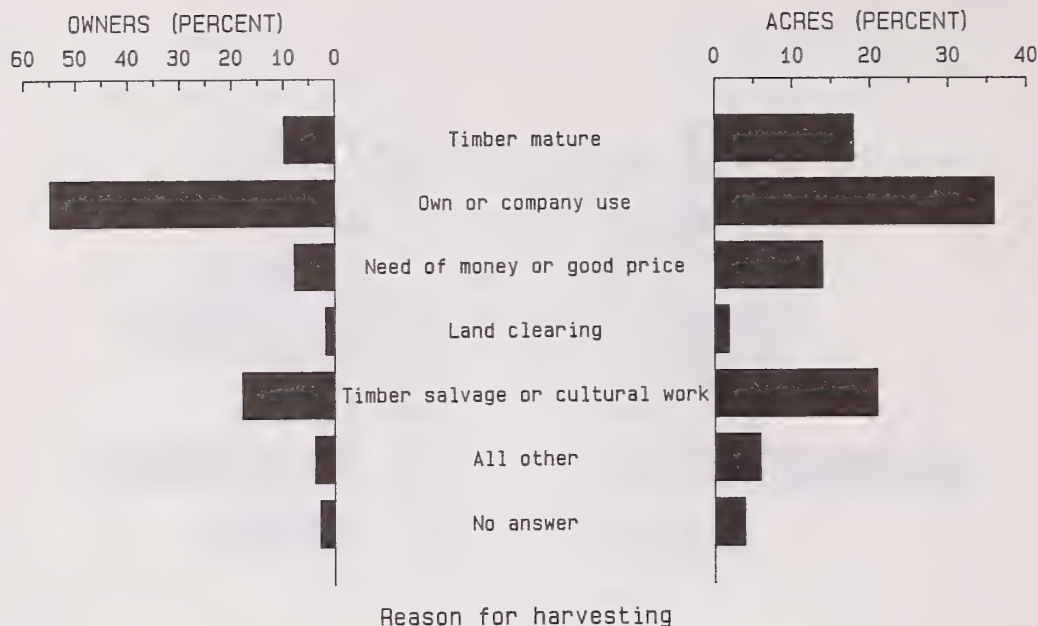


Figure 6.--Distribution of private ownerships who have harvested timber, by reason for harvesting, 1983.

747,700 acres or 19 percent of the private timberland. Many of these owners indicate that they intend to harvest in the future. Of those ownership units classified as nonharvesters, 63 percent representing 370,000 acres indicated that they intend to harvest in the next 10 years (Table 28).

The most often reason given for not harvesting was that the timber was of poor quality (Table 26, 27, Fig. 7). Harvesting wood for fuel could provide opportunities for these 9,700 owners to improve their forests. Also, much of this timber will improve in quality as it increases in size. Other owners cited that the timber was immature and low in volume, there was no market, or the price was too low. The 3,100 owners that gave these reasons may intend to harvest in the future, perhaps when the timber matures, prices go up, or market conditions improve.

Other reasons given for not harvesting were that harvesting would ruin the scenery and destroy the hunting, owner was opposed to harvesting, and owner distrusts loggers. These reasons given by 7,900 owners represent 318,600 acres of forest land. Concern about the negative effects of harvesting may preclude harvesting by these owners. The belief that timber harvesting destroys the value of the land for hunting is not true. Timber harvesting can add habitat diversity to the forest, and this is beneficial to many species of wildlife (Shaw 1970). Silvicultural treatment can enhance scenery by providing vistas and encouraging desired species to grow. To initiate harvesting by those afraid to harvest and by the 1,000 owners who did not harvest because of insufficient knowledge, an increase in forestry information needs to be provided.

Also, because an owner says he or she will never harvest does not mean harvesting will never take place on the land. Ownerships change over time and with new owners come new owner objectives and attitudes. Timberland owned today by an owner who is opposed to harvesting may in the future be owned by someone very much in favor of harvesting.

#### Predicting Timber Harvesting Behavior

What an owner will do with his or her forest is influenced by many factors: landowner motives, objectives, and constraints all influence timber harvesting activity (Kurtz and Lewis 1981). In addition, people plan their actions for different time periods. We asked owners not only if they have cut and if they intend to cut trees but also when they intend to cut. Owner attitudes can change over time. In 1972, 14 percent of the owners intended to harvest in the next 10 years (Kingsley and Birch 1977). This increased to nearly 65 percent in 1983 (Table 31 and Fig. 8). An additional 16 percent of the present owners intend to harvest sometime in the future. These two groups of owners currently hold 90 percent of the private timberland.

The acreage held by owners intending to harvest differs very little between the northern and southern parts of the State (Tables 29 and 30). The northern unit has 81 percent of the timberland owned by people who intend to harvest in the next 10 years and 11 percent owned by those with indefinite plans. The southern unit has 73 percent owned by those who intend to harvest in the next 10 years and 14 percent by indefinite harvesters.



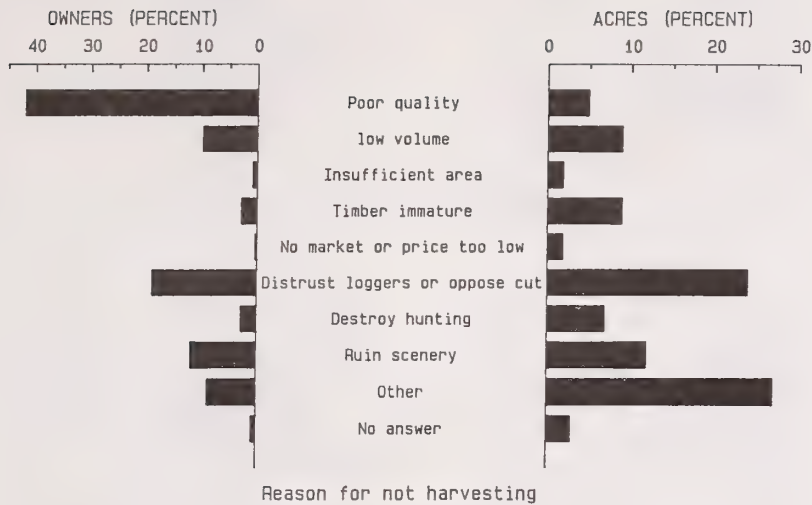


Figure 7.--Distribution of private ownerships who have not harvested timber, by reason for not harvesting, 1983.

How Much Timber is Available

The answer to "How much timber is available from private forest land?" is influenced by how one defines availability and the assumptions from which the estimate is developed. Changes in industrial technology, market conditions, and the general social atmosphere limit the credibility of a long-range estimate.

Frieswyk and Malley (1985) estimated that the net growth of growing stock was over 3 times growing-stock removals between 1973 and 1983. But how much of this growth is available was unknown. We asked sample owners two specific questions to aid in estimating timber availability: "Do you plan to cut trees from your land for your personal use or for sale?" and "What percent of your woodland do you feel you would never cut trees from?" We assumed that ownership units who said they would harvest in the next 10 years would do so. We further divided the ownership units into four groups: forest industry, nonindustrial private forest ownerships (NIPF's) over 500 acres, NIPF's with 50 to 499 acres, and NIPF's with fewer than 50 acres of forest land. No allowance was made for size, condition, or location of the timber or any unrealistic restrictions the owner might place on logging. Also, the availability of softwood, which is of concern to Vermont's forest industry, is not addressed.

An estimated 400 forest industry ownerships hold 409,600 acres of timberland in Vermont. These owners indicate that 82 percent or 337,500 acres are available for timber harvesting (Table 55). Current average annual growth for Vermont's timberland is estimated to be 41.2 cubic feet per

acre per year (Frieswyk and Malley 1985). If we assume that this growth is available for harvesting, about 13.9 million cubic feet of wood will be available each year from forest industry land.

About 700 of the NIPF's holding more than 500 acres of timberland plan to harvest timber in the next 10 years. These ownership units hold 671,100 acres of forest land and indicate that 517,300 acres are available for timber harvesting. Again, if we assume that these owners harvest average annual growth from their forest land, 21.3 million cubic feet of wood will be available each year.

We estimate that 18,900 NIPF's holding between 50 and 499 acres plan to harvest in the next 10 years. These owners indicate that 1,571,100 acres of their 2,282,500 acres of forest land is available for timber harvesting. If we use the same assumption on growth, 64.7 million cubic feet of wood will be available each year from this land.

The remaining 41,900 ownership units that intend to harvest in the next 10 years own less than 50 acres of forest land. These ownerships indicate that 321,600 acres are available for timber harvesting. That would make 13.2 million cubic feet of wood available each year.

In total, 113.1 million cubic feet of growing-stock timber should be made available each year by owners who plan to harvest during the next 10 years. In 1982, 54.5 million cubic feet of timber were removed from growing stock for industrial and nonindustrial products in Vermont (Frieswyk and Malley 1985), and 15.5 million cubic feet of growing-stock volume were

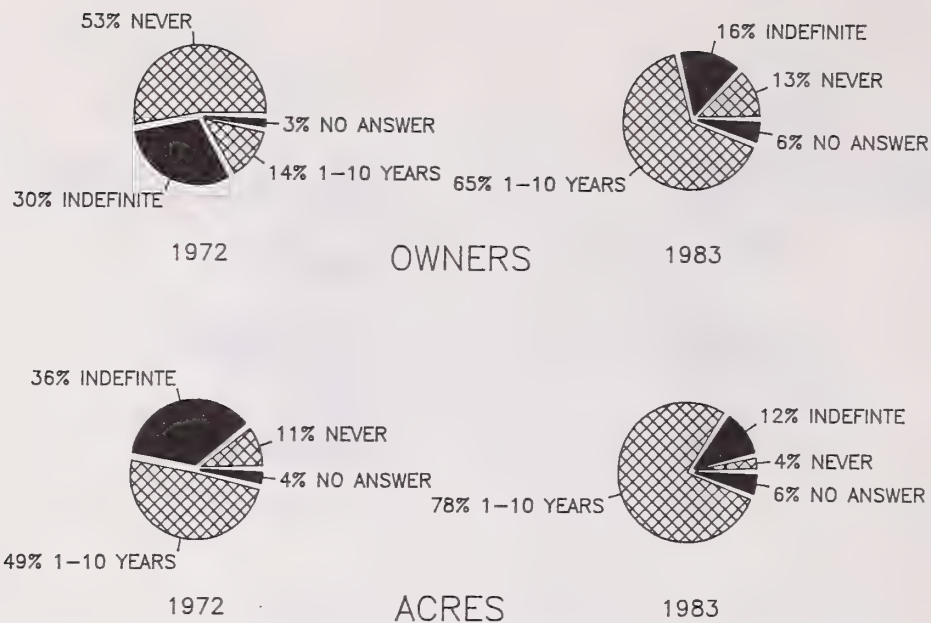


Figure 8.--Vermont forest-land owners' intentions to harvest in the next 10 years, by number of owners and acres held, 1972 and 1983.

removed but not utilized for products. Sixty-four percent of these unutilized removals were the result of timber on some public lands being removed from the resource base because the land was administratively removed from timber production. A total of 70 million cubic feet of growing stock is being removed annually. This is well below the total available. Also 36.9 million cubic feet were removed from nongrowing-stock sources and utilized for products.

Another approach would be to look at those ownerships that intend to harvest their trees for sale. There are 10,500 owners that intend to cut trees for sale in the next 10 years, they control 1,864,700 acres of timberland (Table 56). If the growth from this land is available, 76.8 million cubic feet could be cut for industrial use. Industrial production from growing-stock in 1982 was 46.4 million cubic feet with an additional 9.9 million cubic feet coming from nongrowing-stock sources.

The 10,000 ownership units who intend to harvest in the future, holding 489,400 acres, feel that at some time 403,700 acres are available. Their annual growth on growing stock is producing an additional 16.6 million cubic feet of available timber. Also, the production of wood on public lands was not included in the preceding analysis. But removals from public lands are included in the total annual removals figures.

This analysis suggests that there is a margin of timber volume available for industrial expansion or for shifting some of the removals from nongrowing-stock sources to growing stock. The first approach shows a surplus growth of 43 million cubic feet of growing stock over

removals for all products, and the second approach shows a surplus of 30 million cubic feet for industrial use. It is not known whether some of the removals from nongrowing-stock sources will shift to growing stock. If they do, a significant portion of these surpluses could be utilized.

#### Products Harvested

Of the products harvested from Vermont's forests, fuelwood is first in terms of total volume harvested. The 1982 harvest of fuelwood was 35.2 million cubic feet. This was 38 percent of the wood harvested. Most of this came from nongrowing-stock sources i.e.; rough and rotten trees, dead trees, and wood from the tops and branches of trees. Growing-stock trees accounted for only 8.1 million cubic feet or 23 percent of the fuelwood harvest. Fuelwood for personal use was cut on the land of 32,900 owners representing 85 percent of those owners who have harvested trees (Tables 33 and 40). These owners have 57 percent of the private timberland in the state, 2,281,800 acres. In addition to fuelwood for personal use, 11 percent of the owners harvested wood for sale. The recent high levels of fuelwood consumption are a result of the high cost of oil. Indications show that fuelwood consumption will change in relationship to the price of oil.

Pulpwood is second in terms of total volume harvested annually, over 25.6 million cubic feet or 28 percent of the total harvest. Most of the pulpwood is harvested in the northern unit of the State. This is where most of the forest industry land, and larger private ownerships are located. All of the forest industries sampled and an estimated 43 percent of the private



ownerships over 500 acres have harvested pulpwood. Major reasons for the larger pulpwood harvest in the northern unit are that pulp mills are closer providing a ready market for the wood, and the softwood species growing there are in high demand for pulp.

Just behind pulpwood, sawlogs are the third largest product in terms of volume harvested in Vermont and the most important industrial timber product. The annual sawlog harvest is 24,734,000 cubic feet or 27 percent of the total harvest. The 18,300 owners who harvested sawlogs represent 48 percent of all owners that harvested, and hold 2,295,600 acres. Virtually all the forest industry owners harvested sawlogs from their land. Ownerships with larger acreages were more likely to harvest sawlogs, with 71 percent of the nonindustrial ownership units over 500 acres harvesting sawlogs. More acreage is owned by sawlog harvesters than by harvesters of any other product (Table 40).

#### Forestry Assistance

When asked whom they would contact for forestry assistance, 51 percent of the owners said they would contact either a county forester, a state forester, or the state extension service. These owners hold 46 percent of the private forest land. Eighteen percent of the owners stated that they did not know whom to contact and another 21 percent did not answer the question. Together these two groups of owners hold 35 percent of the private forest land (Table 41).

Thirty-seven percent of the landowners have sought some form of forestry assistance. These owners control 67 percent of the private forest land. Owners who have harvested timber were more likely to have sought assistance than those who have not. Also, those with larger ownerships were more likely to have sought assistance (Table 42).

Most of the owners who received forestry assistance requested help related to growing trees. The four most frequent types of assistance received were: help with general forest management, information about forestry, and help with timber sales and tree planting (Table 44). Other types of assistance received were help with insects and disease, and information about wildlife, taxes, and recreation. It is important to note that these data include services received from all forestry sources including forest industries that employ their own foresters.

#### Recreation

Recreation of some sort is permitted by 71 percent of the owners who control 78 percent of the private timberland. About one-fourth of this land is only available to the owner, family, and friends (Table 45). Owners that only permit family and friends to recreate on their land on the average have smaller

acreages. The average acreage for owners that permit the general public is 114 acres, while those that permit only family and friends is 32 acres. Most of the large industry owners permit public recreation.

The different types of recreation and many ownerships that these activities take place on (Tables 46 and 47) indicate how diverse the recreational opportunities are in Vermont's forests. Many different activities can take place on the same land. Hunting by the general public was permitted on the largest amount of land followed by hiking and snowmobiling.

Eighteen percent of the owners, with 29 percent of the land, post their property (Table 52). The most frequently given reason for posting was to control hunting, though more acres were posted because of safety concerns. Many of the owners that post their land will give permission to the public to recreate on their land, if asked. They post their land to retain control of access and activities taking place on the property.

#### Opinion Statements

Timberland owners were asked to respond to 15 statements. Respondents were given choices ranging from very strongly agree to very strongly disagree. Owners that did not know about a topic were encouraged to respond "No Opinion." These responses can be used to gain insight into the opinions of owners about important forestry issues. Responses are shown in Figure 9 and Table 57.

#### Statement

1. Protection of forests from fire, insects, and diseases is important.
2. Management of forest land for wildlife and recreation reduces the value of the land for timber production.
3. Lower taxes on forested land would not influence me to keep my land forested.
4. Foresters should be licensed just like doctors and lawyers.
5. Help from a forester would make it easier for me to manage my forest land.
6. Recreation is an important forest use.
7. Owners who manage their forest land should pay lower property taxes.
8. More facilities that can use low-grade or poor-quality wood for energy are needed.
9. The state service forester program (county foresters) is a waste of the taxpayer's money.

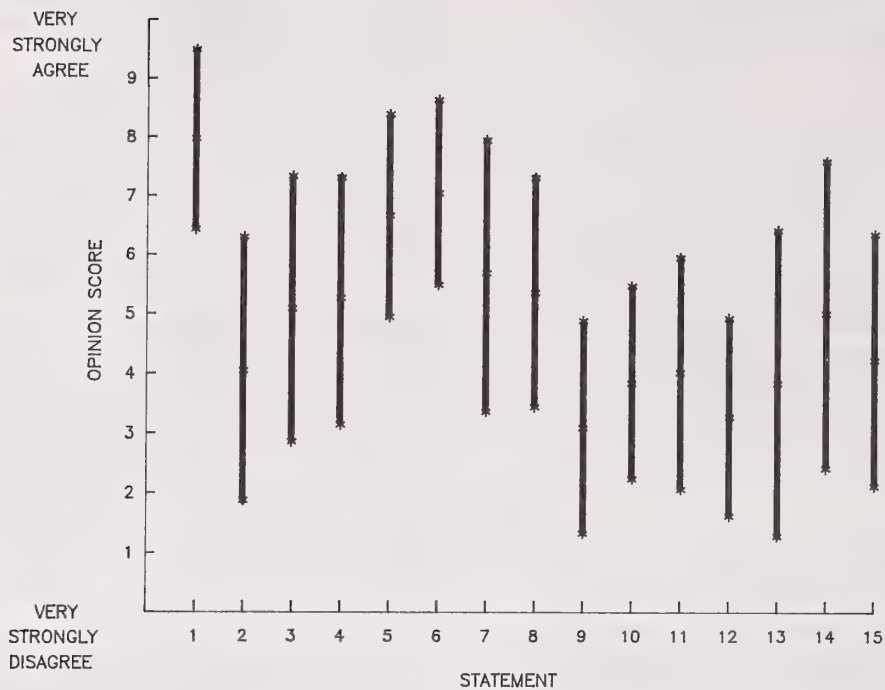


Figure 9.--Responses to opinion statements, mean and one standard deviation.

10. It doesn't make any difference whether I pay an annual tax on standing timber or a single tax when the timber is harvested.

11. Cutting firewood at current levels will be disastrous for the forests.

12. All foresters care about is timber. They can't or don't want to help with wildlife, water, or recreation problems.

13. I would allow the public to use my land for recreation, including hunting, if my taxes were reduced for doing so.

14. The state should support the use of wood for energy.

15. I would lend financial support to form an association with my neighbors in order to hire a forester to manage our land.

Responses to the first statement indicate that most landowners strongly agree that protecting the forests from fire, insects, and diseases is important. This statement had the highest average score of all 15 questions.

Responses to statement 6 show that Vermont landowners generally agree that recreation is an important forest use. They also indicate by their response to statement 2 that they believe forest land can be managed for wildlife and

recreation without reducing the value of the land for timber production. In statement 13 the owners generally disagreed with allowing the public to use their land in exchange for lower taxes. These statements point out that generally Vermont landowners recognize the value of forest land for recreation and that recreation does not exclude other uses, also owners value control of their land and most would not give this up for lower taxes.

Statements 5, 9, and 12 show that Vermont's landowners have a favorable view of foresters. The majority of owners agree with statement 5, that help from a forester would make it easier to manage their forest land. In statement 9 owners indicated support for the state service forester program. This statement, that the state service forester program is a waste of the taxpayer's money, had the highest number of owners that disagreed. The response to statement 12 shows that foresters are considered to have broader interests than just timber, and it was generally disagreed that foresters care only about timber.

#### Landowner Communications

We asked owners to list the conservation-oriented publications they receive (Table 58). Answers to this question will help identify publications for targeting educational programming to forest-land owners. Many



programs to aid landowners are not fully utilized simply because owners are unaware of such programs.

An estimated 80 percent of the forest-land owners holding 80 percent of the private forest land in Vermont subscribe to a farm, conservation, or regionally oriented publication. Highest in circulation among Vermont landowners was "Vermont Life" and "Yankee" magazine, each received by 41 percent of the owners. The owners who received "Vermont Life" controlled the most acreage, 43 percent of the private timberland. Other publications received by owners with significant amounts of land were "Country Journal", "Farm Journal", "Northern Logger", "American Forests", and "Agway Cooperator."

### Conclusion

The typical nonindustrial private landowner in Vermont is well educated, older than the general population, and financially well-off. Although land is held for a wide range of reasons, most forest land is held for other than timber production. This is indicated by the large number of owners who own forest land for esthetic enjoyment, recreation, or because the forest land is part of the farm or residence. These owners also recognize that their forest land can be a source of income, fuel, and other non-timber benefits. The majority plan to harvest trees in the next 10 years, though much of these harvests will be for the owners own use. Owners that never intend to harvest only control 4 percent of the private timber land.

The current level of timber available is adequate to meet present needs under current levels of management. More timber is being produced on land controlled by owners who have expressed an interest in timber harvesting than is being utilized for conventional roundwood products.

There are opportunities for foresters to help landowners manage land in Vermont. This can be concluded from the positive attitude owners have toward foresters; their desire to receive benefits, both timber and nontimber; and their recognition that help from a forester would make it easier to manage their land. At the present time, 37 percent of the owners have sought assistance at sometime, but foresters were only involved with 13 percent of the timber sales. In order to improve timber management and increase all types of benefits from the forest, landowners need to be better informed about the advantages involved in working with a forester to reach their ownership objectives.

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Appendix

Study Method

The sampling scheme used in this study was derived from the sampling design used in the forest inventory by the Northeastern Station. Forest Inventory, Analysis, and Economics field crews attempt to obtain the current name and mailing address of the owner of each of 707 privately owned forested field plots in the state. These plots are uniformly distributed within each survey unit. The field crews obtained usable addresses for more than 90 percent of the field plots. A total of 596 questionnaires were sent to owners of timberland in Vermont; 412 (69 percent) were returned with usable information.

The questionnaire was developed from several earlier ownership studies and has been revised as the study progressed through the Northeastern States. Several questions were added to this study to trace change in ownership from the previous ownership study in Vermont in 1973. The questionnaires were mailed with a cover letter that explained the purpose of the study. Approximately 2 weeks after the first mailing, a postcard was sent to each addressee to remind those who had not responded to return the questionnaire, and to thank those who had responded.

Two weeks later, nonrespondents were mailed a second copy of the questionnaire and the cover letter plus a second letter urging their cooperation. Questionnaires for the state were mailed in March 1984, the Vermont Department of Forests, Parks and Recreation started to contact the in-state nonrespondents and the USDA Forest Service contacted out-of-state nonrespondents. This resulted in an additional 78 usable questionnaires. The 412 questionnaires represent 486 of the privately owned forested field plots or 69 percent.

The probability that a forest-land owner will be sampled depends on the rate of sampling and the acreage of timberland owned. Each of the survey units in Vermont had a different rate of sampling. There were also different rates of response between large acreage owners and small acreage owners. Both the survey rate of sampling and the response rate affect the probability that an owner will be included in the final tabulations.

The total acreage of timberland in private ownership was obtained from the forest survey. The area of timberland in large acreage ownerships was then subtracted to form a separate strata. The remaining private timberland area in each unit was divided by the number of small acreage field plots represented by the remaining valid questionnaires to determine the area represented by each plot.

Since the sampling scheme is essentially the one used for the forest survey, there is a low probability of inclusion for owners of small parcels of forest land. To estimate the total number of persons who own timberland in Vermont, it was necessary to weight the number of owners obtained in the samples. The procedure can be stated as:

$$N = \frac{T_P}{N_r} \sum \frac{1}{A_i}$$

N = estimated number of private owners in the sampling strata.

T<sub>P</sub> = the acres of timberland in the sampling strata.

N<sub>r</sub> = number of respondents in the sampling strata.

A<sub>i</sub> = acres owned by individual respondents.

The N then equals the estimated number of private ownership units in the state or unit. This is an unbiased estimate of the total number of ownership units who own timberland in Vermont.

The data were edited, processed, and compiled by computer using FINSYS-2, a generalized computer system (Barnard 1978). The two forest survey units were combined to make state-level estimates and to increase the accuracy and precision of the estimates. The following tabulation shows the pertinent data for each survey unit and the state.

<u>Region or unit</u>	<u>No. of usable questionnaires</u>	<u>Timberland plots</u>	<u>Private timberland plots</u>	<u>Plots owned by respondents</u>	<u>Average acreage per plot</u>
Northern	209	493	375	266	7,748
Southern	203	435	332	220	8,780
State Total	412	928	707	486	8,215



## Data Accuracy and Reliability

It is important to know the variation associated with the estimates contained in this report. Every acre and every owner in the state were not sampled, therefore the data were estimates. When judging the effectiveness of the estimating procedures, we are concerned with two important criteria: first, how accurate is the estimate; and second, how precise or reliable is the estimate. Accuracy is the correspondence between the sample result and the result from a complete count or census using the same definitions and procedures. Reliability is the precision of the statistical estimates. We are chiefly interested in the accuracy of the sample but in most instances we can only measure reliability.

To check the accuracy of the data, we had this report reviewed by outside experts. The response level obtained in the study is an attempt to assure accuracy by minimizing nonresponse bias. Beyond the search for accuracy, the reliability of the estimate is given by the sampling error. Sampling errors were calculated for the estimated number of private forest-land owners and the acreage of timberland in each cell of the tables. Sampling errors appear in the tables for the most important categories. The sampling error for the number of acres of timberland in private ownership was calculated as part of the forest survey.

Sampling errors provide a means of evaluating survey results; the smaller the sampling error the greater the reliability of the estimate. A statistic with a sampling error of 10 percent is more reliable than one with a sampling error of 20 percent. If an item has a sampling error of 10 percent, chances are 2 out of 3 that an interval constructed to represent a range of 90 to 110 percent of the survey value would contain the true proportion value.

Since the ownership survey was conducted using a land-area sample, the estimates of area have smaller sampling errors than the estimates of numbers of owners. Estimates for the state as a whole are most reliable (having the smallest sampling errors in percent); followed by the regions or units. The inclusion of small forest parcels (less than 10 acres) in the study population substantially increases the sampling error for the estimated number of owners.

The sampling errors, in percent, are:

<u>Region or Unit</u>	<u>Private timberland</u>	<u>Owners of private timberland</u>	<u>Owners holding 10 or more acres</u>
Northern	0.9	9.5	8.4
Southern	1.3	24.8	9.0
State	0.8	16.8	6.2

## Definition of Terms

Average annual net growth of growing stock. The change (resulting from natural causes) in volume of sound wood in sawtimber and poletimber trees during the period between surveys, divided by the length of the period. Components of annual net growth of growing stock include the increment in net volume of trees present at the beginning of the period minus cull increment (the net volume of trees that became rough or rotten during the period).

Board foot. A unit of lumber measurement 1 foot long, 1 foot wide, and 1 inch thick or its equivalent. By Forest Inventory and Analysis convention, softwoods less than 9.0 inches in d.b.h. and hardwoods less than 11.0 inches in d.b.h. do not contain board-foot volume.

Clearcutting. The method of regenerating timber in which the area is cut clear in the literal sense of the word; virtually all the trees, large and small, are removed. The term is often erroneously applied to any type of cutting in which all the merchantable timber is removed.

Diameter limit. The method of harvesting timber in which all trees above a specified diameter are removed.

Farmer-owned lands. Lands owned by farm operators, whether part of the farmstead or not. Excludes land leased by farm operators from nonfarm owners.

Forest industries. Companies or individuals operating wood-using plants.

Forest industry lands. Lands owned by companies or individuals operating primary wood-using plants.

Forest land. Land that is at least 16.7 percent stocked (contains at least 7.5 ft<sup>2</sup> per acre of basal area) by forest trees of any size, or that formerly had such tree cover and is not currently developed for nonforest use. (Forest trees are woody plants that have a well-developed stem and usually are more than 12 feet in height at maturity.) The minimum area for classification of forest land is 1 acre.

Growing-stock trees. Live trees of commercial species that are classified as sawtimber, poletimber, saplings, and seedlings; that is, all live trees of commercial species except rough and rotten trees.

Growing-stock volume. Net volume, in ft<sup>3</sup>, of growing-stock trees that are 5.0 inches in d.b.h. or larger, from a 1-foot stump to a minimum 4.0-inch top diameter outside bark of the central stem.

Hardwoods. Dicotyledonous trees, usually broad-leaved and deciduous.

Miscellaneous private lands. Privately owned lands other than forest-industry and farmer-owned lands.

Ownership unit. Encompasses all types of legal entities having an ownership interest in land, regardless of the number of people involved. It is the locus of decisionmaking for each parcel, whether an individual (sole proprietor), group of individuals (partnership), or legal person (corporation).

Primary wood manufacturing plant. A plant that converts round timber into wood products such as woodpulp, lumber, veneer, cooperage, and dimension products.

Private timberland. All timberland other than that owned by federal, state, or local governments or their agencies.

Productive-reserved forest land. Forest land sufficiently productive to qualify as timberland, but withdrawn from timber utilization through statute, administrative designation, or exclusive use for Christmas tree production.

Pulpwood. Any log from which woodpulp is to be made; usually measured in bolts of 4, 5, or 8 feet, and somewhat smaller in diameter than sawlogs or veneer logs.

Sawtimber trees. Live trees of commercial species that are (a) at least 9.0 inches in d.b.h. for softwoods or 11.0 inches for hardwoods, and (b) that contain at least one 12-foot or two noncontiguous 8-foot merchantable sawlogs, and that meet regional specifications for freedom from defect.

Sawtimber volume. Net volume in board feet, International 1/4-inch rule, of merchantable sawlogs in live sawtimber trees. Net volume equals gross volume less deductions for rot, sweep, and other defects that affect use for lumber.

Selection system. The method of regenerating timber in which trees of all sizes are harvested. However, in practice, frequently only the oldest or largest trees in a stand are harvested. Trees are taken singly or in small groups, but the entire stand is never cleared completely in a single operation.

Softwoods. Coniferous trees, usually evergreen, with needles or scalelike leaves.

Stand. A growth of trees on forest land.

Timberland. Forest land that is producing or capable of producing crops of industrial wood (more than 20 ft<sup>3</sup>/acre/year) and that is not withdrawn from timber utilization. (Industrial wood is all roundwood products except fuelwood.)

Timber removals. The volume of growing-stock or sawtimber trees harvested or killed in logging or in cultural operations such as timber stand improvement, land clearing, or changes in land use.

Timber salvage. Removals of down, damaged, or diseased trees.

Unproductive forest land. Forest land that is incapable of producing 20 cubic feet per acre per year of industrial wood under natural conditions, because of adverse site conditions.

Unproductive reserved forest land. Forest land that is incapable of producing 20 cubic feet per acre per year of industrial wood under natural conditions, because of adverse site conditions, and withdrawn from timber utilization through statute or administrative designation.

Veneer log. Any log from which veneer is to be made, by peeling (rotary cutting) or slicing.



NEW ENGLAND WOODLAND OWNERSHIP STUDY

THIS SURVEY IS VOLUNTARY AND THERE ARE NO PENALTIES FOR REFUSING TO ANSWER ANY QUESTIONS. BECAUSE IT WOULD INVOLVE A TREMENDOUS COST TO THE TAXPAYERS WE ARE UNABLE TO CONTACT ALL WOODLAND OWNERS. THEREFORE, WE TAKE A SMALL BUT REPRESENTATIVE SAMPLE OF WOODLANDS, ONE OF WHICH HAPPENS TO BE YOURS. SINCE YOU REPRESENT HUNDREDS OF OTHER WOODLAND OWNERS, YOUR COOPERATION IS IMPORTANT TO MAKE THE SURVEY RESULTS COMPREHENSIVE, ACCURATE, AND TIMELY. THANK YOU.

Please complete the following questions. Where actual records are not available please use your best estimate. Please be assured your answers will be strictly confidential, only statistical tabulations will be published. If you do not now own woodland, please answer question 1 and return the questionnaire.

1. In what states or provinces do you own land?

State or province	Total acres	Acres* wooded
_____		
_____		
_____		
_____		

\* Include idle fields and pastures with young trees.

2. Of your woodland, how much is in each of the following areas?

- a. Berkshire, Franklin, Hampshire, and Hampden counties, Massachusetts? acres \_\_\_\_\_ or percent \_\_\_\_\_
- b. Barnstable, Bristol, Essex, Middlesex, Norfolk, Plymouth, Suffolk, Dukes, Nantucket, and Worcester counties, Massachusetts? acres \_\_\_\_\_ or percent \_\_\_\_\_
- c. In Connecticut? acres \_\_\_\_\_ or percent \_\_\_\_\_
- d. In Rhode Island? acres \_\_\_\_\_ or percent \_\_\_\_\_
- e. In Vermont? acres \_\_\_\_\_ or percent \_\_\_\_\_
- f. In New Hampshire? acres \_\_\_\_\_ or percent \_\_\_\_\_

3. How many individual tracts or parcels of woodland do you now own? number \_\_\_\_\_

4. In what year did you first acquire woodland? (Whether or not you still own the first tract you acquired.) year \_\_\_\_\_

How much woodland have you acquired in the last 10 years? acres \_\_\_\_\_

How much woodland have you disposed of (sold or deeded to others) in the last 10 years? acres \_\_\_\_\_

5. In which of the following ownership categories does the major portion of your woodland holding fall? (Please check only one.)

- |  |          |
|--|----------|
| Individual (including joint husband wife and family ownerships other than family corporations) | 1. _____ |
| Partnership  | 2. _____ |
| Corporate  | 3. _____ |
| Club or association  | 4. _____ |
| Other (Please specify _____)   | 5. _____ |

6. If your ownership is connected with a business or association what is the nature of the organization:

Check one

- \_\_\_\_\_ Forest industry (sawmill, pulp mill, etc.)  
\_\_\_\_\_ Farm  
\_\_\_\_\_ Industrial business (manufacturing, mineral extraction, etc.)  
\_\_\_\_\_ Real estate  
\_\_\_\_\_ Non-industrial business (retail, sales, service industry, etc.)  
\_\_\_\_\_ Sport/recreation club or association  
\_\_\_\_\_ Public utility  
\_\_\_\_\_ Other (please specify \_\_\_\_\_)

7. What is the approximate road mileage from your primary residence to your nearest and farthest tract of woodland? (For businesses or organizations consider primary residence to mean nearest place of business.)

Miles to the nearest tract \_\_\_\_\_  
(enter zero if you live on the tract)  
Miles to farthest tract \_\_\_\_\_

8. Have you been approached to sell all or part of your woodland in the last five years?

all \_\_\_\_\_ part \_\_\_\_\_ no \_\_\_\_\_

Have you been approached to sell trees in the last five years?

Yes \_\_\_\_\_ No \_\_\_\_\_



9. Have trees been harvested from your land, either by you personally or by someone else, during the time you have owned your woodland?

Yes 1. \_\_\_\_\_ Year of the most recent harvest \_\_\_\_\_

No. 2. \_\_\_\_\_

IF TREES HAVE NOT BEEN HARVESTED FROM YOUR  
LAND SKIP TO QUESTION 16 ON PAGE 5

10. During the last 10 years, in what years have trees been cut from your land either by yourself or by someone else for your personal use (i.e. fuelwood, fence posts, etc.) or for wood industry use (sawlogs, pulpwood, etc.)? Please complete the following table. Check as many as apply.

<u>Year</u>	<u>Personal use</u>	<u>Industry use</u>	<u>Both</u>
<u>All years</u>	-----	-----	-----
<u>1985</u>	-----	-----	-----
<u>1984</u>	-----	-----	-----
<u>1983</u>	-----	-----	-----
<u>1982</u>	-----	-----	-----
<u>1981</u>	-----	-----	-----
<u>1979-80</u>	-----	-----	-----
<u>1977-78</u>	-----	-----	-----
<u>1975-76</u>	-----	-----	-----
<u>1972-74</u>	-----	-----	-----
<u>Don't know</u>	-----	-----	-----

11. Before trees were cut from your land did you have an opportunity to visit a logging operation?

Yes \_\_\_\_\_ No \_\_\_\_\_

After the cutting were you satisfied with the condition of the area?

Yes \_\_\_\_\_ No \_\_\_\_\_

If you sold trees were you satisfied with the price you received?

Yes \_\_\_\_\_ No \_\_\_\_\_

12. During the cutting, what products were harvested? (Check as many as apply.)

- Check
1. \_\_\_\_\_ Fuelwood for your own use or for the use of friends
  2. \_\_\_\_\_ Fuelwood for sale
  3. \_\_\_\_\_ Sawlogs for sale
  4. \_\_\_\_\_ Pulpwood for sale
  5. \_\_\_\_\_ Other wood products for personal use (fence posts, etc.)
  6. \_\_\_\_\_ Christmas trees for sale
  7. \_\_\_\_\_ Other products (please specify \_\_\_\_\_)
  8. \_\_\_\_\_ Don't know what products were harvested

13. For the harvests in the last 12 years or the most recent harvest before then, how were the trees chosen to be cut? (Check as many as apply.)

- |   | <u>Cut for<br/>own use</u> | <u>Cut for wood<br/>using industry</u> |
|---|----------------------------|--|
| Preselected marked trees were cut                           | 1. _____                   | 1. _____                               |
| Trees over a minimum diameter were cut                      | 2. _____                   | 2. _____                               |
| All or nearly all of the trees on a specified area were cut | 3. _____                   | 3. _____                               |
| Trees were cut to clear the land for another use            | 4. _____                   | 4. _____                               |
| The logger selected the trees as he cut                     | 5. _____                   | 5. _____                               |
| Other (please specify _____)                                | 6. _____                   | 6. _____                               |
| Don't know what method was used to select the trees         | 7. _____                   | 7. _____                               |

14. For the harvests in the last 12 years or the most recent harvest before then, who was most responsible for determining which particular trees would be cut? (Check as many as apply.)

- |                        | <u>Timber for<br/>own use</u> | <u>timber for wood<br/>using industry</u> |
|------------------------|-------------------------------|---|
| Landowner              | 1. _____                      | 1. _____                                  |
| Forester               | 2. _____                      | 2. _____                                  |
| Friend or neighbor     | 3. _____                      | 3. _____                                  |
| Logger or timber buyer | 4. _____                      | 4. _____                                  |

15. Why were trees cut from your land? (please rank as many as apply with number one the most important reason, number two the next most important reason and so on.)

- Rank
1. \_\_\_\_\_ Felt trees were mature
  2. \_\_\_\_\_ Offered a good price
  3. \_\_\_\_\_ Land clearing
  4. \_\_\_\_\_ Needed money
  5. \_\_\_\_\_ Needed wood for own use
  6. \_\_\_\_\_ Trees harvested for company use (forest industry only)
  7. \_\_\_\_\_ Salvage of trees damaged by insects, disease, fire, or weather
  8. \_\_\_\_\_ To improve wildlife habitat. If so what species \_\_\_\_\_
  9. \_\_\_\_\_ To improve the view or the scenic quality of the area
  10. \_\_\_\_\_ To improve recreation opportunities
  11. \_\_\_\_\_ Forest improvement-thinning, weeding, cull tree removal, etc.
  12. \_\_\_\_\_ To be eligible for preferential forest land tax treatment
  13. \_\_\_\_\_ Other, (please specify \_\_\_\_\_)



16. If trees have not been cut from your land, why not? (Please rank with number one the most important reason and number two the next most important reason and so on.)

Rank

- 1. \_\_\_\_\_ No market or prices too low
- 2. \_\_\_\_\_ Trees are too small
- 3. \_\_\_\_\_ Trees are of too low quality
- 4. \_\_\_\_\_ Scenery would be reduced
- 5. \_\_\_\_\_ Value of the land for recreation or hunting would be reduced
- 6. \_\_\_\_\_ Distrust of loggers
- 7. \_\_\_\_\_ Opposed to or disinterested in cutting trees
- 8. \_\_\_\_\_ Not enough volume to make harvesting worthwhile
- 9. \_\_\_\_\_ Not enough area to make harvesting worthwhile
- 10. \_\_\_\_\_ Insufficient knowledge of what trees to sell or how to sell
- 11. \_\_\_\_\_ Another reason (please specify \_\_\_\_\_)

17. Do you plan to cut trees or harvest non-wood products (maple sap, Christmas trees, etc.) from your land for your personal use or for sale?

	<u>Wood for own use</u> (Check one)	<u>Wood for sale</u> (Check one)	<u>Non-wood products</u> (Check one)
In the next 10 years?	1. _____	4. _____	7. _____
Possibly at some future date?	2. _____	5. _____	8. _____
Never plan to harvest?	3. _____	6. _____	9. _____

18. What percent, if any, of your woodland do you feel you would never cut trees from?

Percent \_\_\_\_\_

Why would you not cut trees from this land? Please explain \_\_\_\_\_

---



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19. Have you ever sought advice or help from a forester in managing your woodland?

Yes \_\_\_\_\_ No \_\_\_\_\_

(If you answered yes above please check the kinds of help you sought)

Check as many  
as apply

1. \_\_\_\_\_ Information about forestry
2. \_\_\_\_\_ Help with tree planting
3. \_\_\_\_\_ Forest management assistance
4. \_\_\_\_\_ Information about wildlife
5. \_\_\_\_\_ Help in selling trees or other forest products
6. \_\_\_\_\_ Help with insect or disease
7. \_\_\_\_\_ Information about tax incentive programs
8. \_\_\_\_\_ Information about forest recreation
9. \_\_\_\_\_ Other, please specify \_\_\_\_\_

20. What office, agency, or individual would you contact for forestry help or advice? (If you don't know, please check "Don't Know".)

Check

1. \_\_\_\_\_ Private consulting forester
2. \_\_\_\_\_ Industrial forester
3. \_\_\_\_\_ State employee (service forester or state forester)
4. \_\_\_\_\_ Extension Service
5. \_\_\_\_\_ Soil Conservation Service
6. \_\_\_\_\_ Other, please specify \_\_\_\_\_
7. \_\_\_\_\_ Don't know

21. Why do you own woodland? (Please rank with number 1 the most important.)

Rank

1. \_\_\_\_\_ Land investment (hope to sell all or most of my woodland at a profit)
2. \_\_\_\_\_ Recreation (hunting, camping, fishing, bird watching, etc.)
3. \_\_\_\_\_ Timber production (growing timber or other forest products for sale)
4. \_\_\_\_\_ Farm or domestic use (having the woods as a source of timber for my own use, e.g., firewood, fence posts, etc.)
5. \_\_\_\_\_ Enjoyment of owning "green space"
6. \_\_\_\_\_ Part of the farm (woodland is the untillable part of the farm and serves no useful function in the farm operation)
7. \_\_\_\_\_ Woodland is part of my residence
8. \_\_\_\_\_ For an estate to pass on to my children
9. \_\_\_\_\_ Other (please specify \_\_\_\_\_)



22. Which of the following do you feel were the most important benefits you derived from your woodland during the last 10 years? (Please rank the benefits in order of importance, with number 1 the most important.)

Rank

1. \_\_\_\_\_ Increase in land value (investment)
2. \_\_\_\_\_ Recreation (hunting, camping, bird watching, etc.)
3. \_\_\_\_\_ Timber production
4. \_\_\_\_\_ Farm or domestic use
5. \_\_\_\_\_ Enjoyment of woods, wildlife, and "green space"
6. \_\_\_\_\_ Firewood
7. \_\_\_\_\_ Other (please specify \_\_\_\_\_  
\_\_\_\_\_)

23. Which of the following do you feel will be the most important benefits you expect to derive from your woodland during the next 10 years? (Please rank the benefits in order of importance, with number 1 the most important.)

Rank

1. \_\_\_\_\_ Increase in land value (investment)
2. \_\_\_\_\_ Recreation (hunting, camping, bird watching, etc.)
3. \_\_\_\_\_ Timber production
4. \_\_\_\_\_ Farm or domestic use
5. \_\_\_\_\_ Enjoyment of woods, wildlife, and "green space"
6. \_\_\_\_\_ Firewood
7. \_\_\_\_\_ Other (please specify \_\_\_\_\_  
\_\_\_\_\_)

24. Does your woodland contain or is it adjacent to a : (check all that apply)

1. \_\_\_\_\_ Lake
2. \_\_\_\_\_ Pond
3. \_\_\_\_\_ Stream or river
4. \_\_\_\_\_ Bay or salt water
5. \_\_\_\_\_ Public road

25. Is your woodland used for recreational purposes?

Yes \_\_\_\_\_

No \_\_\_\_\_

If you answered yes above indicate what activities are permitted and by whom.  
(Check as many as apply.)

Family, friends  
or employees only

General  
public

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_
- 6. \_\_\_\_\_
- 7. \_\_\_\_\_
- 8. \_\_\_\_\_
- 9. \_\_\_\_\_

- \_\_\_\_\_
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- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

- Hiking
- Picnicking
- Camping
- Hunting
- Fishing
- Snowmobiling and trail biking
- Winter sports
- Bird watching
- Other (please specify \_\_\_\_\_)

26. Is your woodland posted?

Yes \_\_\_\_\_

No \_\_\_\_\_

If yes, why have you posted?

Check one

- 1. \_\_\_\_\_ Past abuse of the property (littering, damage to fences etc.)
- 2. \_\_\_\_\_ To protect the safety of residents and property
- 3. \_\_\_\_\_ To protect the owner from liability
- 4. \_\_\_\_\_ To control hunting (I wish to know who is hunting on my land and/or when)
- 5. \_\_\_\_\_ To prohibit hunting (I do not want any hunting on my land)
- 6. \_\_\_\_\_ To control access (I wish to know who is on my land)
- 7. \_\_\_\_\_ To prohibit access (I do not want uninvited persons on my land)
- 8. \_\_\_\_\_ Other (Please explain \_\_\_\_\_)

27. Is your woodland a vacation or retirement home, homesite, or do you have such plans in the future?

Now

In the future

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_

- 5. \_\_\_\_\_
- 6. \_\_\_\_\_
- 7. \_\_\_\_\_
- 8. \_\_\_\_\_

- Retirement home
- Vacation home
- Seasonal
- Seasonal home converted to year round use



28. Do you or any member of your household subscribe to or receive any of the following periodicals? (Please check those that apply.)

1. \_\_\_\_\_ National Wildlife
2. \_\_\_\_\_ Ranger Rick Magazine
3. \_\_\_\_\_ Sports Afield
4. \_\_\_\_\_ Audubon Magazine
5. \_\_\_\_\_ Agway Cooperator
6. \_\_\_\_\_ American Forests
7. \_\_\_\_\_ Connecticut Woodlands
8. \_\_\_\_\_ Yankee
9. \_\_\_\_\_ Massachusetts Wildlife
10. \_\_\_\_\_ Connecticut Magazine
11. \_\_\_\_\_ In Touch
12. \_\_\_\_\_ Field and Stream
13. \_\_\_\_\_ The Forestland Review
14. \_\_\_\_\_ Tree Farm News
15. \_\_\_\_\_ The Massachusetts Farm Bulletin
16. \_\_\_\_\_ Country Journal
17. \_\_\_\_\_ Northern Logger
18. \_\_\_\_\_ Farm Journal
19. \_\_\_\_\_ Forest Notes
20. \_\_\_\_\_ Sanctuary (Massachusetts Audubon)
21. \_\_\_\_\_ Vermont Life
22. \_\_\_\_\_ Any other magazines similar to those listed above  
(Please specify \_\_\_\_\_  
\_\_\_\_\_)
23. \_\_\_\_\_ No, I don't subscribe to any of the above magazines

29. Please indicate, by circling the appropriate letter, whether you agree or disagree with each of the following statements. If you feel you don't know, please circle the letter E "no opinion".

	Very strongly disagree	Strongly disagree	Disagree	Disagree slightly	No opinion	Agree slightly	Agree	Strongly agree	Very strongly agree	
1.	A	B	C	D	E	F	G	H	I	A good management plan provides for the timber, wildlife, and recreation I want and still protects the land.
2.	A	B	C	D	E	F	G	H	I	Management of forest land for wildlife and recreation reduces the value of the land for timber production.
3.	A	B	C	D	E	F	G	H	I	I know how to take care of my woodlot without help from anyone.
4.	A	B	C	D	E	F	G	H	I	Foresters should be licensed just like doctors and lawyers.
5.	A	B	C	D	E	F	G	H	I	I really need the help of a forester to make a proper management plan for my forest land.
6.	A	B	C	D	E	F	G	H	I	If I sell timber or other forest products I expect to make enough money to at least repay all my costs.
7.	A	B	C	D	E	F	G	H	I	Owners who manage their forest land should pay lower property taxes.
8.	A	B	C	D	E	F	G	H	I	The loggers I know, know enough about forestry to take care of all my forest management needs.
9.	A	B	C	D	E	F	G	H	I	The state should provide free professional forest management advice to landowners without regard to how much forest land they own.
10.	A	B	C	D	E	F	G	H	I	I'm afraid private consulting foresters want to increase their profits by harvesting too many trees from my woodlot.
11.	A	B	C	D	E	F	G	H	I	Cutting firewood at current levels will be disastrous for the forests.
12.	A	B	C	D	E	F	G	H	I	All forester's care about is timber. They can't or don't want to help with wildlife, water, or recreation problems.
13.	A	B	C	D	E	F	G	H	I	I would allow the public to use my land for recreation, including hunting, if my taxes were reduced for doing so.
14.	A	B	C	D	E	F	G	H	I	The state should support the use of wood for energy.
15.	A	B	C	D	E	F	G	H	I	I would be willing to pay a reasonable fee to hire a private consulting forester to manage our forest land.



The following questions are asked to insure proper classification to questions 1 through 29 by categories such as age, sex, and education. Please be as accurate as possible. If you need space to expand on any of your answers, use the space at the end of the questionnaire. Again, answers are strictly confidential and only statistical tabulations are published. No information that could identify you as an individual is ever published.

THESE QUESTIONS DO NOT PERTAIN TO AND SHOULD NOT BE ANSWERED BY CORPORATIONS AND ORGANIZATIONS.

If the woodland is owned by more than one person, the following questions should be answered for the person to whom the questionnaire is addressed. If the questionnaire is addressed to joint owners, as husband and wife, these questions should be answered by the person who makes most of the decisions.

30. During the first 12 years of the owner's life where did he or she live most of the time?

Check one

1. \_\_\_\_\_ In a city with a population of 100,000 or more
2. \_\_\_\_\_ In a city with a population of 10,000 to 99,999
3. \_\_\_\_\_ In a town with a population of fewer than 10,000
4. \_\_\_\_\_ In a rural area
5. \_\_\_\_\_ On a farm

31. What is the sex of the owner?

1. Male \_\_\_\_\_ 2. Female \_\_\_\_\_ 3. Joint Ownership \_\_\_\_\_

32. What is the age of the owner? Check one

1. \_\_\_\_\_ Under 25
2. \_\_\_\_\_ 25-34
3. \_\_\_\_\_ 35-44
4. \_\_\_\_\_ 45-54
5. \_\_\_\_\_ 55-64
6. \_\_\_\_\_ 65 and over

33. How many years of formal education has the owner completed?

Check one

1. \_\_\_\_\_ Grade 1 - 8
2. \_\_\_\_\_ Some high school (9-11)
3. \_\_\_\_\_ High school (12)
4. \_\_\_\_\_ Some schooling beyond high school (12-15)
5. \_\_\_\_\_ Undergraduate college degree (16)
6. \_\_\_\_\_ Some graduate college work (16+)

34. What is the primary occupation of the owner?

---

35. What is your best estimate of the total combined income of all members of the owner's household over 14 years of age during the past 12 months? (Please include NET income from businesses, farming, and rentals, money from jobs, pensions, dividends, interest, social security, unemployment, welfare, and workman's compensation.)

Check one

- 1. \_\_\_\_\_ Less than \$7,500
- 2. \_\_\_\_\_ \$7,500 to \$9,999
- 3. \_\_\_\_\_ \$10,000 to \$11,999
- 4. \_\_\_\_\_ \$12,000 to \$14,999
- 5. \_\_\_\_\_ \$15,000 to \$19,999
- 6. \_\_\_\_\_ \$20,000 to \$24,999
- 7. \_\_\_\_\_ \$25,000 to \$29,999
- 8. \_\_\_\_\_ \$30,000 to \$49,999
- 9. \_\_\_\_\_ Over \$50,000

36. How many persons over age 14 are members of the owner's household?

No. \_\_\_\_\_

37. Which category below most closely describes the racial or ethnic origin of the owner?

Check one

- 1. \_\_\_\_\_ White (not of Hispanic origin)
- 2. \_\_\_\_\_ Black (not of Hispanic origin)
- 3. \_\_\_\_\_ American Indian or Alaskan native
- 4. \_\_\_\_\_ Hispanic
- 5. \_\_\_\_\_ Asian or Pacific Islander

Thank you for taking the time to fill out our questionnaire. Your cooperation is greatly appreciated. Please feel free to write in any comments you have in the space below.



<u>Table No.</u>	<u>Page</u>
1. Area of timberland, by ownership class and geographic unit, Vermont, 1983.....	32
2. Estimated number of private ownership units and acres of timberland owned, by size class and geographic region, Vermont, 1983....	33
3. Estimated number of private ownership units and acres of timberland owned, by expected time of future harvest and region, Vermont, 1983.....	34
4. Estimated number of private ownership units and acres of timberland owned, by size class and form of ownership, Vermont, 1983....	35
5. Estimated number of owners and acres of timberland owned, by incorporated businesses and unincorporated businesses and other, Vermont, 1983.....	36
6. Estimated number of individual owners and acres of timberland owned, by occupation and region, Vermont, 1983.....	37
7. Estimated number of private ownership units and acres of timberland owned, by expected time of future harvest, and occupation, Vermont, 1983.....	38
8. Estimated number of individual owners and acres of timberland owned, by age class and region, Vermont, 1983.....	39
9. Estimated number of individual owners and acres of timberland owned, by years of formal education and region, Vermont, 1983.....	40
10. Estimated number of individual owners and acres of timberland owned, by annual income class and region, Vermont, 1983.....	41
11. Estimated number of individual owners and acres of timberland owned, by early life environment, and region, Vermont, 1983.....	42
12. Estimated number of private ownership units and acres of timberland owned, by date of acquisition and form of ownership, Vermont, 1983.....	43
13. Estimated number of private ownership units and acres of timberland owned, by date of acquisition, Vermont, 1983.....	44
14. Estimated number of private ownership units and acres of timberland owned, by distance from residence to nearest tract and region, Vermont, 1983.....	45
15. Estimated number of private ownership units and acres of timberland owned, by number of tracts and region, Vermont, 1983....	46

<u>Table No.</u>	<u>Page</u>
16. Estimated number of private ownership units and acres of timberland owned, by distance from tracts, Vermont, 1983.....	47
17. Estimated number of private ownership units and acres of timberland owned, by primary reason for owning, for harvesters and nonharvesters, Vermont, 1983.....	48
18. Estimated number of private ownership units and acres of timberland owned, by primary and secondary reason for owning, Vermont, 1983.....	49
19. Estimated number of private ownership units and acres of timberland owned, by primary reason for owning and expected time of future harvest, Vermont, 1983.....	50
20. Estimated number of private ownership units and acres of timberland owned, by primary reason for owning, for harvesters and nonharvesters by region, Vermont, 1983....	51
21. Estimated number of private ownership units and acres of timberland owned, by primary benefit received in the last 10 years and region, Vermont, 1983.....	53
22. Estimated number of private ownership units and acres of timberland owned, by primary benefit expected in the next 10 years and expected time of future harvest, Vermont, 1983.....	54
23. Estimated number of private ownership units and acres of timberland owned, by primary benefit expected in the next 10 years and region, Vermont, 1983.....	55
24. Estimated number of private ownership units who have harvested timber and acres of timberland owned, by reason for harvesting and form of ownership, Vermont, 1983.....	56
25. Estimated number of private ownership units who have harvested timber and acres of timberland owned, by reason for harvesting and region, Vermont, 1983.....	57
26. Estimated number of private ownership units who have not harvested timber and acres of timberland owned, by reason for not harvesting and form of ownership, Vermont, 1983.....	58
27. Estimated number of private ownership units who have not harvested timber and acres of timberland owned, by reason for not harvesting and region, Vermont, 1983.....	59
28. Estimated number of private ownership units and acres of timberland owned, by expected time of future harvest and by harvesters and nonharvesters, Vermont, 1983...60	60

<u>Table No.</u>	<u>Page</u>	<u>Table No.</u>	<u>Page</u>
29. Estimated number of private ownership units and acres of timberland owned, by expected time of future harvest and by harvesters and nonharvesters, Northern Region, Vermont, 1983.....	61	40. Estimated number of private ownership units and acres of timberland owned, by timber product harvested, forest industry, and private land owners (size class ownership), Vermont, 1983.....	72
30. Estimated number of private ownership units and acres of timberland owned, by expected time of future harvest and by harvesters and nonharvesters, Southern Region, Vermont, 1983.....	62	41. Estimated number of private ownership units and acres of timberland owned, by agency that owners would contact for forestry assistance, and size class of ownership, Vermont, 1983.....	73
31. Estimated number of private ownership units and acres of timberland owned, by size class and expected time of future harvest, Vermont, 1983.....	63	42. Estimated number of private ownership units and acres of timberland owned, by harvesters and nonharvesters, size class, and decision to seek assistance, Vermont, 1983.....	74
32. Estimated number of private ownership units who have harvested timber and acres of timberland owned, by individual selecting timber for sale and individual selecting timber for own use, Vermont, 1983.....	64	43. Estimated number of private ownership units and acres of timberland owned, by agency that owners would contact for forestry assistance, and decision to seek assistance, Vermont, 1983.....	76
33. Estimated number of private ownership units who have harvested timber and acres of timberland owned, by individual selecting timber for sale and class of ownership, Vermont, 1983.....	65	44. Estimated number of private ownership units who have received forestry assistance and acres of timberland owned, by type of assistance, Vermont, 1983.....	77
34. Estimated number of private ownership units who have harvested timber and acres of timberland owned, by individual selecting timber for own use and size class of ownership, Vermont, 1983.....	66	45. Estimated number of private ownership units and acres of timberland owned, by availability for recreation, Vermont, 1983....	77
35. Estimated number of private ownership units who have harvested timber and acres of timberland owned, by method of selecting timber for sale and method of selecting timber for own use, Vermont, 1983.....	67	46. Estimated number of private ownership units and acres of timberland owned, by type of recreational use, by the owner, the owner's family, or immediate circle of friends, Vermont, 1983.....	78
36. Estimated number of private ownership units who have harvested timber and acres of timberland owned, by method of selecting timber for sale and size class of ownership, Vermont, 1983.....	68	47. Estimated number of private ownership units and acres of timberland owned, by type of public use permitted, Vermont, 1983.....	78
37. Estimated number of private ownership units who have harvested timber and acres of timberland owned, by method of selecting timber for own use and size class of ownership, Vermont, 1983.....	69	48. Estimated number of private ownership units and acres of timberland owned, by availability for public recreational use and region, Vermont, 1983.....	79
38. Estimated number of private ownership units who have harvested timber and acres of timberland owned, by individual selecting timber for sale and method of selecting timber for sale, Vermont, 1983.....	70	49. Estimated number of private ownership units and acres of timberland owned for recreational use by the owner, the owner's family, or immediate circle of friends, by geographic region, Vermont, 1983.....	80
39. Estimated number of private ownership units who have harvested timber and acres of timberland owned, by individual selecting timber for own use and method of selecting timber for own use, Vermont, 1983.....	71	50. Estimated number of private ownership units and acres of timberland owned, by availability for recreational use and size class, Vermont, 1983.....	81
		51. Estimated number of private ownership units and acres of timberland owned, by availability for hunting, Vermont, 1983.....	82



<u>Table No.</u>	<u>Page</u>
52. Estimated number of private ownership units and acres of timberland owned, by reason for posting and use permitted, Vermont, 1983.....	83
53. Estimated number of private ownership units and acres of timberland owned, by posting status and geographic region, Vermont, 1983.....	84
54. Estimated number of private ownership units and acres of timberland owned, by size class and posting status, Vermont, 1983.....	85
55. Estimated number of acres of private timberland owned by expected time of future harvest, and size class, Vermont, 1983.....	86
56. Estimated number of private ownership units and acres of timberland owned, by expected time of future harvest for industrial use and for own use, Vermont, 1983.....	87
57. Estimated number of private ownership units and acres of timberland owned, by opinion question statement number and response to statement, Vermont, 1983.....	88
58. Estimated number of private ownership units and acres of timberland owned, by conservation-oriented and regional publications they receive, Vermont, 1983.....	89

Table 1.--Area of timberland, by ownership class and geographic unit, Vermont, 1983

(In thousands of acres)

Ownership class	Northern Unit	Southern Unit	All Units
National Forest <sup>a</sup>	2.9	180.2	183.1
Other federal	.8	7.8	8.6
State	113.4	73.8	187.2
County and municipal	22.4	28.2	50.6
Total public	139.5	290.0	429.5
Forest industry	302.7	106.9	409.6
Farmer <sup>b</sup>	513.8	460.4	974.2
Miscellaneous private:			
Individual	1,072.4	1,089.2	2,161.6
Corporate	49.7	168.9	218.6
Other <sup>c</sup>	122.3	106.3	228.6
Total private	2,060.9	1,931.7	3,992.6
All ownerships	2,200.4	2,221.7	4,422.1

<sup>a</sup>Total acreage of national forest timberland has been reduced by 45,500 acres since the 1973 timber survey. Most of this land has been reclassified as either reserved forest land or unproductive forest land.

<sup>b</sup>Includes "part-time farmers" (persons whose occupation is not farmer but who say their land is part of a farm). These acres were included in miscellaneous private in the previous survey.

<sup>c</sup>Includes partnerships, undivided estates, clubs, associations, etc.



Table 2.--Estimated number of private ownership units and acres of timberland owned, by size class and geographic region, Vermont, 1983

Size class (acres)	Northern region			Southern region			State total		
	Number	Percent	Sampling error, percent	Number	Percent	Sampling error, percent	Number	Percent error	Sampling error, percent
1-9	1,200	6	100	17,800	44	57	19,000	31	54
10-19	2,200	10	50	5,000	12	36	7,200	12	29
20-49	7,100	34	19	8,800	21	18	15,900	25	13
50-99	4,700	23	18	4,000	10	17	8,700	14	12
100-199	3,500	17	12	3,700	9	12	7,200	12	9
200-499	1,800	9	12	1,400	3	15	3,200	5	9
500-999	200	1	25	300	1	25	500	1	18
1000-4999	100	W	29	100	W	22	200	W	18
5000+	W	W	26	W	W	44	W	W	24
Total	20,800	100	9.5	41,100	100	24.8	61,900	100	16.8
ACRES OWNED									
1-9	8,300	W	100	44,300	2	44	52,600	1	41
10-19	33,200	2	50	70,800	4	35	104,000	3	29
20-49	215,500	11	20	265,600	14	7	481,100	12	13
50-99	281,700	14	17	283,400	15	17	565,100	14	12
100-199	439,200	21	14	469,300	24	12	908,500	23	9
200-499	480,600	23	14	354,200	18	15	834,800	21	10
500-999	132,600	6	25	132,800	7	25	265,400	6	18
1000-4999	107,700	5	28	203,700	10	20	311,400	8	16
5000+	362,100	18	35	107,600	6	45	469,700	12	29
Total	2,060,900	100	1.3	1,931,700	100	.9	3,992,600	100	.8

W-Fewer than 50 owners or less than 0.5 percent.

Table 3.--Estimated number of private ownership units and acres of timberland owned, by expected time of future harvest and region, Vermont, 1983

Ownership class	1 - 10 years	Indefinite	Never	No answer	Total	Sampling error, percent
NORTHERN REGION OWNERS						
Forest industry	200	W	-	W	200	80
Farmer	4,500	300	100	100	5,000	18
Individual	9,800	3,500	1,200	600	15,100	13
Corporate	100	W	-	W	100	49
Other	300	100	-	W	400	48
<b>Total</b>	<b>14,800</b>	<b>4,000</b>	<b>1,300</b>	<b>700</b>	<b>20,800</b>	<b>9.5</b>
ACRES OWNED						
Forest industry	277,400	8,300	-	17,000	302,700	42
Farmer	455,800	33,100	8,300	16,600	513,800	13
Individual	815,500	157,500	49,700	49,700	1,072,400	9
Corporate	33,100	8,300	-	8,300	49,700	41
Other	97,400	16,600	-	8,300	122,300	38
<b>Total</b>	<b>1,679,200</b>	<b>223,800</b>	<b>58,000</b>	<b>99,900</b>	<b>2,060,900</b>	<b>1.3</b>
SOUTHERN REGION OWNERS						
Forest industry	200	-	-	W	200	66
Farmer	3,600	500	-	500	4,600	20
Individual	20,800	5,400	6,700	2,200	35,100	29
Corporate	100	100	200	300	700	45
Other	300	100	100	-	500	36
<b>Total</b>	<b>25,100</b>	<b>6,000</b>	<b>7,000</b>	<b>3,000</b>	<b>41,100</b>	<b>24.8</b>
ACRES OWNED						
Forest industry	86,700	-	-	20,200	106,900	43
Farmer	398,500	35,400	0	26,500	460,400	12
Individual	708,400	212,500	88,600	79,700	1,089,200	6
Corporate	133,500	8,900	8,800	17,700	168,900	23
Other	88,600	8,800	8,900	-	106,300	28
<b>Total</b>	<b>1,415,700</b>	<b>265,600</b>	<b>106,300</b>	<b>144,100</b>	<b>1,931,700</b>	<b>.9</b>
STATE TOTAL OWNERS						
Forest industry	400	W	-	W	400	56
Farmer	8,100	800	100	600	9,600	13
Individual	30,600	8,900	7,900	2,800	50,200	21
Corporate	200	100	200	300	800	40
Other	600	200	100	W	900	29
<b>Total</b>	<b>39,900</b>	<b>10,000</b>	<b>8,300</b>	<b>3,700</b>	<b>61,900</b>	<b>16.8</b>
ACRES OWNED						
Forest industry	364,100	8,300	-	37,200	409,600	33
Farmer	854,300	68,500	8,300	43,100	974,200	9
Individual	1,523,900	370,000	138,300	129,400	2,161,600	6
Corporate	166,600	17,200	8,800	26,000	218,600	20
Other	186,000	25,400	8,900	8,300	228,600	24
<b>Total</b>	<b>3,094,900</b>	<b>489,400</b>	<b>164,300</b>	<b>244,000</b>	<b>3,992,600</b>	<b>.8</b>

W-Fewer than 50 owners or less than 0.5 percent.



Table 4.--Estimated number of private ownership units and acres of timberland owned, by size class and form of ownership, Vermont, 1983

Size class acres	Individual		Corporation		Other		Total		Sampling error, percent
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	
1-9	19,000	32	-	-	-	-	19,000	31	54
10-19	7,200	12	-	-	-	-	7,200	12	29
20-49	14,900	25	400	40	600	33	15,900	25	13
50-99	8,500	14	-	-	200	11	8,700	14	12
100-199	6,300	11	200	20	700	39	7,200	12	9
200-499	2,800	5	200	20	200	11	3,200	5	9
500-999	300	1	100	10	100	6	500	1	18
1000-4999	100	W	100	10	W	W	200	W	18
5000+	W	W	W	W	W	W	W	W	24
Total	59,100	100	1,000	100	1,800	100	61,900	100	16.8
ACRES OWNED									
1-9	52,600	2	-	-	-	-	52,600	1	41
10-19	104,000	3	-	-	-	-	104,000	3	29
20-49	446,300	14	17,700	3	17,100	5	481,100	12	13
50-99	548,500	18	-	-	16,600	5	565,100	14	12
100-199	796,200	26	26,600	5	85,700	26	908,500	23	9
200-499	721,400	23	69,100	12	44,300	14	834,800	21	10
500-999	213,400	7	17,200	3	34,800	11	265,400	6	18
1000-4999	164,300	5	103,400	18	43,700	14	311,400	8	16
5000+	45,900	2	341,200	59	82,600	25	469,700	12	29
Total	3,092,600	100	575,200	100	324,800	100	3,992,600	100	.8

W-Fewer than 50 owners or less than 0.5 percent.

Table 5.--Estimated number of owners and acres of timberland owned, by incorporated businesses, and unincorporated businesses and other, Vermont, 1983

Nature of business	Incorporated			Unincorporated and other			
	Number	Percent	Acres	Number	Percent	Acres	Percent
Real estate	300	30	43,700	200	W	144,600	4
Forest industry	W	W	321,700	400	1	87,900	3
Other industry	100	10	34,300	100	W	8,900	W
Nonindustrial business	-	-	-	200	W	17,700	1
Farm	100	10	34,900	9,500	16	939,300	27
Sport/recreation club	300	30	43,700	W	W	17,100	1
Public utility	W	W	18,400	-	-	-	-
Other	200	20	78,500	50,500 <sup>a</sup>	83	2,201,900 <sup>a</sup>	64
Total	1,000	100	575,200	60,900	100	3,417,400	100

W-Fewer than 50 owners or less than 0.5 percent.

<sup>a</sup>Includes individual owners and undivided estates.

Table 6.--Estimated number of individual owners and acres of timberland owned, by occupation and region, Vermont, 1983

Occupation	Northern Region		Southern Region		Total	
	Number	Percent	Number	Percent	Number	Percent
OWNERS						
Professional	4,500	23	7,400	19	11,900	20
Manager	4,100	21	3,000	8	7,100	12
Other white collar	300	1	1,500	4	1,800	3
Total white collar	8,900	45	11,900	31	20,800	35
Craftsman	2,200	11	14,000	36	16,200	27
Blue collar	400	2	700	1	1,100	2
Total blue collar	2,600	13	14,700	37	17,300	29
Farmer	3,200	16	3,200	8	6,400	11
Service worker	300	2	100	W	400	1
Homemaker	400	2	1,700	4	2,100	4
Retired	3,300	17	6,800	17	10,100	17
No Answer	1,000	5	1,000	3	2,000	3
Total	19,700	100	39,400	100	59,100	100
ACRES OWNED						
Professional	381,700	24	292,200	19	673,900	22
Manager	223,700	14	159,400	11	383,100	12
Other white collar	41,400	3	44,300	3	85,700	3
Total white collar	646,800	41	495,900	33	1,142,700	37
Craftsman	66,300	4	70,800	5	137,100	4
Blue collar	74,600	5	70,800	5	145,400	5
Total blue collar	140,900	9	141,600	10	282,500	9
Farmer	348,100	22	309,900	20	658,000	21
Service worker	24,800	1	8,900	1	33,700	1
Homemaker	49,700	3	62,000	4	111,700	4
Retired	293,500	19	398,500	26	692,000	22
No Answer	74,600	5	97,400	6	172,000	6
Total	1,578,400	100	1,514,200	100	3,092,600	100

W-Fewer than 50 owners or less than 0.5 percent.



Table 7.--Estimated number of private ownership units and acres of timberland owned, by expected time of future harvest, and occupation, Vermont, 1983

	1 - 10 years	Indefinite	Never	No answer	Total	Sampling error, percent
OWNERS						
Professional	7,200	4,200	-	500	11,900	21
Manager	5,300	1,200	500	100	7,100	19
Other white collar	600	-	1,000	200	1,800	52
Total white collar	13,100	5,400	1,500	800	20,800	-
Craftsman	10,100	1,300	4,800	-	16,200	62
Blue collar	1,000	100	-	-	1,100	35
Total blue collar	11,100	1,400	4,800	-	17,300	-
Farmer	5,500	400	100	400	6,400	16
Service worker	100	300	-	-	400	68
Homemaker	700	200	300	900	2,100	49
Retired	6,600	2,000	400	1,100	10,100	22
No answer	900	W	900	200	2,000	35
All individuals	38,000	9,700	8,000	3,400	59,100	17.6
All others	1,900	300	300	300	2,800	21.8
Total	39,900	10,000	8,300	3,700	61,900	16.8
ACRES OWNED						
Professional	476,600	128,900	-	68,400	673,900	11
Manager	305,100	43,100	26,600	8,300	383,100	15
Other white collar	59,700	-	17,100	8,900	85,700	32
Total white collar	841,400	172,000	43,700	85,600	1,142,700	-
Craftsman	94,600	25,400	17,100	-	137,100	25
Blue collar	120,000	25,400	-	-	145,400	24
Total blue collar	214,600	50,800	17,100	-	282,500	-
Farmer	563,400	51,400	8,300	34,900	658,000	11
Service worker	16,600	17,100	-	-	33,700	50
Homemaker	50,900	26,000	26,000	8,800	111,700	28
Retired	501,700	112,300	34,300	43,700	692,000	11
No answer	120,500	8,900	17,200	25,400	172,000	22
All individuals	2,309,100	438,500	146,600	198,400	3,092,600	4.5
All others	785,800	50,900	17,700	45,600	900,000	15.2
Total	3,094,900	489,400	164,300	244,000	3,992,600	.8

W-Fewer than 50 owners or less than 0.5 percent.

Table 8.--Estimated number of individual owners and acres of timberland owned, by age class and region, Vermont, 1983

Age class (years)	Individual owners		Sampling error, percent	Acres owned		Sampling error, percent
	Number	Percent		Number	Percent	
NORTHERN REGION						
Under 25	-	-	-	-	-	-
25-44	8,100	41	22	372,900	24	15
45-64	7,400	38	16	712,700	45	11
65 or over	4,000	20	21	467,900	30	14
No answer	200	1	88	24,900	1	58
Total	19,700	100	10.0	1,578,400	100	7.8
SOUTHERN REGION						
Under 25	-	-	-	-	-	-
25-44	6,700	17	29	292,200	19	17
45-64	24,000	61	42	611,000	41	11
65 or over	8,000	20	26	575,600	38	11
No answer	700	2	73	35,400	2	50
Total	39,400	100	26.0	1,514,200	100	4.2
STATE TOTAL						
Under 25	-	-	-	-	-	-
25-44	14,800	25	18	665,100	21	11
45-64	31,400	53	32	1,323,700	43	9
65 or over	12,000	20	19	1,043,500	34	9
No answer	900	2	59	60,300	2	38
Total	59,100	100	17.6	3,092,600	100	4.5

Table 9.--Estimated number of individual owners and acres of timberland owned, by years of formal education and region, Vermont, 1983

Education level	Individual owners		Sampling error, percent	Acres owned		Sampling error percent
	Number	Percent		Number	Percent	
NORTHERN REGION						
1-8 years	1,400	7	35	140,900	9	24
9-11 years	2,100	11	39	124,700	8	28
High school graduate	2,400	12	29	248,600	16	18
Beyond high school	3,300	17	21	323,200	20	16
Bachelors degree	4,300	22	33	198,900	12	21
Graduate work	5,800	29	20	500,700	32	13
No answer	400	2	58	41,400	3	45
Total	19,700	100	10.0	1,578,400	100	7.8
SOUTHERN REGION						
1-8 years	1,300	3	31	168,200	11	22
9-11 years	300	1	50	70,900	5	35
High school graduate	8,100	21	56	230,200	15	19
Beyond high school	13,600	34	64	301,100	20	16
Bachelors degree	4,300	11	36	194,800	13	20
Graduate work	9,400	24	22	504,700	33	12
No answer	2,400	6	75	44,300	3	44
Total	39,400	100	26.0	1,514,200	100	4.2
STATE TOTAL						
1-8 years	2,700	4	24	309,100	10	16
9-11 years	2,400	4	35	195,600	6	22
High school graduate	10,500	18	44	478,800	15	13
Beyond high school	16,900	29	53	624,300	20	11
Bachelors degree	8,600	14	25	393,700	13	15
Graduate work	15,200	26	16	1,005,400	33	9
No answer	2,800	5	66	85,700	3	32
Total	59,100	100	17.6	3,092,600	100	4.5



Table 10.--Estimated number of individual owners and acres of timberland owned, by annual income class and region, Vermont, 1983

Income class	Individual owners		Sampling error, percent	Acres owned		Sampling error, percent
	Number	Percent		Number	Percent	
NORTHERN REGION						
Under \$10,000	2,700	14	24	240,300	15	19
\$10,000-\$14,999	2,300	12	34	124,300	8	26
\$15,000-\$19,999	900	4	32	116,000	7	27
\$20,000-\$24,999	1,700	9	39	116,000	7	27
\$25,000-\$29,999	1,100	5	41	82,900	6	32
\$30,000+	7,100	36	23	658,600	42	12
No answer	3,900	20	27	240,300	15	19
<b>Total</b>	<b>19,700</b>	<b>100</b>	<b>10.0</b>	<b>1,578,400</b>	<b>100</b>	<b>7.8</b>
SOUTHERN REGION						
Under \$10,000	2,100	5	46	97,400	6	30
\$10,000-\$14,999	1,300	3	39	141,700	9	25
\$15,000-\$19,999	1,700	4	30	132,800	9	25
\$20,000-\$24,999	2,300	6	28	150,600	10	24
\$25,000-\$29,999	1,000	3	39	88,500	6	31
\$30,000+	25,100	64	40	681,800	45	10
No answer	5,900	15	39	221,400	15	19
<b>Total</b>	<b>39,400</b>	<b>100</b>	<b>26.0</b>	<b>1,514,200</b>	<b>100</b>	<b>4.2</b>
STATE TOTAL						
Under \$10,000	4,800	8	24	337,700	11	16
\$10,000-\$14,999	3,600	6	26	266,000	9	18
\$15,000-\$19,999	2,600	4	23	248,800	8	18
\$20,000-\$24,999	4,000	7	23	266,600	9	18
\$25,000-\$29,999	2,100	4	29	171,400	5	22
\$30,000+	32,200	54	32	1,340,400	43	8
No answer	9,800	17	26	461,700	15	13
<b>Total</b>	<b>59,100</b>	<b>100</b>	<b>17.6</b>	<b>3,092,600</b>	<b>100</b>	<b>4.5</b>

Table 11.--Estimated number of individual owners and acres of timberland owned, by early life environment,<sup>a</sup> and region, Vermont, 1983

Early life environment	Individual owners		Sampling error, percent	Acres owned		Sampling error, percent
	Number	Percent		Number	Percent	
NORTHERN REGION						
City over 100,000	3,500	18	38	215,500	14	20
City 10,000-99,999	2,900	15	30	240,300	15	19
Town/city under 10,000	4,600	23	26	276,900	18	18
Rural area	3,900	20	24	306,600	19	17
On a farm	4,300	22	17	489,400	31	14
No answer	500	2	59	49,700	3	41
Total	19,700	100	10.0	1,578,400	100	7.8
SOUTHERN REGION						
City over 100,000	3,900	10	32	265,700	18	17
City 10,000-99,999	12,900	33	70	230,200	15	19
Town/city under 10,000	6,400	16	29	274,500	18	17
Rural area	10,800	27	45	292,200	19	16
On a farm	4,700	12	23	416,200	28	13
No answer	700	2	73	35,400	2	50
Total	39,400	100	26.0	1,514,200	100	4.2
STATE TOTAL						
City over 100,000	7,400	12	25	481,200	16	13
City 10,000-99,999	15,800	27	57	470,500	15	13
Town/city under 10,000	11,000	19	20	551,400	18	12
Rural area	14,700	25	34	598,800	19	12
On a farm	9,000	15	14	905,600	29	10
No answer	1,200	2	48	85,100	3	32
Total	59,100	100	17.6	3,092,600	100	4.5

<sup>a</sup>First 12 years.

Table 12.--Estimated number of private ownership units and acres of timberland owned, by date of acquisition and form of ownership, Vermont, 1983

Date of acquisition	Forest Industry	Farmer	Corporate	Misc. Individual	Misc. Other	Total
OWNERS						
1980-1984	200	100	W	4,000	100	4,400
1973-1979	100	2,800	W	7,400	300	10,600
1970-1972	-	400	-	3,600	W	4,000
1960-1969	100	2,000	400	18,700	200	21,400
1950-1959	W	1,900	100	10,400	200	12,600
1940-1949	W	900	W	2,200	W	3,100
1901-1939	W	1,200	100	1,200	100	2,600
Prior to 1900	W	100	-	W	-	100
No answer	-	200	200	2,700	W	3,100
<b>Total</b>	<b>400</b>	<b>9,600</b>	<b>800</b>	<b>50,200</b>	<b>900</b>	<b>61,900</b>
ACRES OWNED						
1980-1984	16,600	8,300	8,300	162,500	8,300	204,000
1973-1979	8,800	204,600	26,000	375,400	71,500	686,300
1970-1972	-	42,000	-	169,200	17,700	228,900
1960-1969	17,700	204,500	44,300	532,000	54,200	852,700
1950-1959	8,300	196,800	44,300	412,500	34,300	696,200
1940-1949	182,700	136,600	34,300	265,400	16,600	635,600
1901-1939	29,600	138,900	52,600	165,400	17,700	404,200
Prior to 1900	145,900	8,800	-	8,900	-	163,600
No answer	-	33,700	8,800	70,300	8,300	121,100
<b>Total</b>	<b>409,600</b>	<b>974,200</b>	<b>218,600</b>	<b>2,161,600</b>	<b>228,600</b>	<b>3,992,600</b>

W-Fewer than 50 owners or less than 0.5 percent.



Table 13.--Estimated number of private ownership units and acres of timberland owned, by date of acquisition, Vermont, 1983

Date of acquisition	Individual owners			Acres owned			All other owners			Acres owned		
	Number	Percent	Sampling error, percent	Number	Percent	Sampling error, percent	Number	Percent	Sampling error, percent	Number	Percent	Sampling error, percent
1980-1984	4,200	7	34	170,900	5	22	200	7	60	33,100	4	50
1973-1979	9,900	17	18	553,400	18	12	700	25	50	132,900	15	34
1970-1972	4,000	7	36	211,200	7	20	W	W	71	17,700	2	71
1960-1969	20,600	35	44	719,900	23	11	800	29	39	132,800	15	28
1950-1959	12,100	20	39	600,500	19	12	500	18	59	95,700	10	30
1940-1949	3,000	5	22	427,900	14	14	100	3	47	207,700	23	59
1901-1939	2,400	4	24	295,400	10	17	200	7	49	108,800	12	31
Prior to 1900	100	-	72	17,700	1	71	W	W	52	145,900	16	47
No answer	2,800	5	64	95,700	3	30	300	11	87	25,400	3	58
Total	59,100	100	17.6	3,092,600	100	4.5	2,800	100	21.8	900,000	100	15.2

W-Fewer than 50 owners or less than 0.5 percent.

Table 14.--Estimated number of private ownership units and acres of timberland owned, by distance from residence to nearest tract and region, Vermont, 1983

Distance from residence (miles)	Private ownership units			Acres owned		
	Number	Percent	Sampling error, percent	Number	Percent	Sampling error, percent
NORTHERN REGION						
0-1	11,500	55	12	1,019,400	49	10
2-5	2,300	11	39	284,900	14	42
6-15	700	3	34	116,000	6	27
16-25	300	1	46	115,600	6	47
26-50	500	3	66	74,600	4	34
50-100	500	3	55	33,100	2	50
Over 100	3,900	19	35	265,200	13	18
No answer	1,100	5	34	152,100	7	31
Total	20,800	100	9.5	2,060,900	100	1.3
SOUTHERN REGION						
0-1	21,500	52	22	1,241,500	64	6
2-5	600	1	48	79,700	4	33
6-15	11,400	28	79	126,400	7	26
16-25	300	1	51	103,300	5	44
26-50	W	W	100	8,900	1	100
50-100	100	W	86	17,700	1	71
Over 100	4,000	10	41	256,800	13	18
No answer	3,200	8	59	97,400	5	30
Total	41,100	100	24.8	1,931,700	100	.9
STATE TOTAL						
0-1	33,000	53	15	2,260,900	57	5
2-5	2,900	5	33	364,600	9	34
6-15	12,100	19	74	242,400	6	19
16-25	600	1	34	218,900	6	32
26-50	500	1	64	83,500	2	32
50-100	600	1	49	50,800	1	41
Over 100	7,900	13	27	522,000	13	13
No answer	4,300	7	45	249,500	6	22
Total	61,900	100	16.8	3,992,600	100	.8

W-Fewer than 50 owners or less than 0.5 percent.

Table 15.--Estimated number of private ownership units and acres of timberland owned, by number of tracts and region, Vermont, 1983

Number of tracts	Private owners		Sampling error, percent	Acres owned		Sampling error, percent
	Number	Percent		Number	Percent	
NORTHERN REGION						
1	15,900	77	12	977,900	48	10
2	2,800	14	27	339,800	17	16
3	1,700	8	32	207,200	10	20
4	200	1	46	66,300	3	36
5	100	W	64	24,800	1	58
6 - 10	100	W	37	91,100	4	30
11 or more	W	W	27	353,800	17	36
Total	20,800	100	9.5	2,060,900	100	1.3
SOUTHERN REGION						
1	35,100	86	29	1,115,700	58	6
2	3,400	8	24	363,100	19	14
3	1,700	4	56	97,400	5	30
4	400	1	46	106,300	5	28
5	100	W	76	35,400	2	50
6 - 10	400	1	57	79,700	4	33
11 or more	W	W	39	134,100	7	37
Total	41,100	100	24.8	1,931,700	100	.9
STATE TOTAL						
1	51,000	82	20	2,093,600	52	6
2	6,200	10	18	702,900	18	11
3	3,400	6	32	304,600	8	17
4	600	1	37	172,600	4	22
5	200	W	52	60,200	2	38
6 - 10	500	1	44	170,800	4	22
11 or more	W	W	29	487,900	12	28
Total	61,900	100	16.8	3,992,600	100	.8

W-Fewer than 50 owners or less than 0.5 percent.



Table 16.--Estimated number of private ownership units and acres of timberland owned, by distance from tracts, Vermont, 1983

Distance (miles)	Owners of 1 tract	Owners of more than 1 tract	
		Distance to:	
		Nearest tract	Farthest tract
OWNERS			
0-1	24,300	8,700	2,700
2-5	2,400	500	1,300
6-15	11,500	600	1,200
16-25	400	200	500
26-50	400	100	800
51-100	600	W	200
Over 100	7,200	700	2,900
No answer	4,100	200	1,300
<b>Total</b>	<b>51,000</b>	<b>10,900</b>	<b>10,900</b>
ACRES OWNED			
0-1	1,249,900	1,011,000	256,600
2-5	92,300	272,300	240,000
6-15	120,000	122,400	230,600
16-25	59,700	159,200	130,000
26-50	16,600	66,900	121,000
51-100	42,000	8,800	351,900
Over 100	341,700	180,300	375,800
No answer	171,400	78,100	193,100
<b>Total</b>	<b>2,093,600</b>	<b>1,899,000</b>	<b>1,899,000</b>

W-Fewer than 50 owners or less than 0.5 percent.

Table 17.--Estimated number of private ownership units and acres of timberland owned, by primary reason for owning, for harvesters and nonharvesters, Vermont, 1983

Primary reason for owning	Private owners		Sampling error, percent	Acres owned		Sampling error, percent
	Number	Percent		Number	Percent	
HARVESTERS						
Land investment	3,100	8	29	413,700	13	16
Recreational use	3,200	8	34	155,400	5	23
Timber production	900	2	33	552,700	17	24
Farm and domestic use	10,300	27	22	651,400	20	11
Esthetic enjoyment	3,500	9	25	300,900	9	17
Part of farm	1,800	5	20	293,100	9	17
Part of residence	11,800	31	40	464,000	14	13
Estate	900	2	40	103,400	3	29
Other	2,000	5	63	244,000	8	19
No answer	1,000	3	52	66,300	2	36
Total	38,500	100	14.2	3,244,900	100	2.5
NONHARVESTERS						
Land investment	1,200	5	34	102,300	14	29
Recreational use	1,900	8	65	84,600	11	32
Timber production	W	W	100	8,300	1	100
Farm and domestic use	500	2	58	25,500	3	58
Esthetic enjoyment	4,300	18	32	198,000	26	21
Part of farm	1,200	5	45	50,800	7	41
Part of residence	11,700	50	76	131,000	18	25
Estate	900	4	49	77,500	11	33
Other	800	4	45	52,000	7	41
No answer	900	4	71	17,700	2	71
Total	23,400	100	39.0	747,700	100	10.2
ALL PRIVATE OWNERS						
Land investment	4,300	7	23	516,000	13	14
Recreational use	5,100	8	32	240,000	6	19
Timber production	900	1	32	561,000	14	24
Farm and domestic use	10,800	17	21	676,900	17	11
Esthetic enjoyment	7,800	13	21	498,900	12	13
Part of farm	3,000	5	22	343,900	9	16
Part of residence	23,500	38	43	595,000	15	12
Estate	1,800	3	31	180,900	5	22
Other	2,800	5	47	296,000	7	17
No answer	1,900	3	43	84,000	2	32
Total	61,900	100	16.8	3,992,600	100	.8

W--Fewer than 50 owners or less than 0.5 percent.

Table 18.--Estimated number of private ownership units and acres of timberland owned, by primary and secondary reason for owning, Vermont, 1983

Reason for owning	Primary reason		Secondary reason	
	Number	Percent	Number	Percent
OWNERS				
Land investment	4,300	7	2,100	3
Recreational use	5,100	8	5,100	8
Timber production	900	1	1,300	2
Farm and domestic use	10,800	17	5,900	10
Esthetic enjoyment	7,800	13	10,700	17
Part of farm	3,000	5	5,000	8
Part of residence	23,500	38	3,400	6
Estate	1,800	3	4,400	7
Other	2,800	5	500	1
No secondary reason given	-	-	21,600	35
No answer	1,900	3	1,900	3
<b>Total</b>	<b>61,900</b>	<b>100</b>	<b>61,900</b>	<b>100</b>
ACRES OWNED				
Land investment	516,000	13	239,700	6
Recreational use	240,000	6	318,500	8
Timber production	561,000	14	346,900	9
Farm and domestic use	676,900	17	512,600	13
Esthetic enjoyment	498,900	12	498,700	12
Part of farm	343,900	9	360,000	9
Part of residence	595,000	15	206,800	5
Estate	180,900	5	308,000	8
Other	296,000	7	64,100	2
No secondary reason given	-	-	1,053,300	26
No answer	84,000	2	84,000	2
<b>Total</b>	<b>3,992,600</b>	<b>100</b>	<b>3,992,600</b>	<b>100</b>





Table 20.--Estimated number of private ownership units and acres of timberland owned, by primary reason for owning, for harvesters and nonharvesters by region, Vermont, 1983

Primary reason for owning	Private owners		Sampling error, percent	Acres owned		Sampling error, percent
	Number	Percent		Number	Percent	
NORTHERN REGION						
HARVESTERS						
Land investment	2,000	13	42	263,200	15	21
Recreational use	1,600	10	51	58,000	3	38
Timber production	600	4	45	393,800	23	31
Farm and domestic use	4,500	30	22	331,500	19	16
Esthetic enjoyment	1,100	7	33	132,600	8	25
Part of farm	800	5	31	116,000	7	27
Part of residence	2,700	18	24	207,200	12	20
Estate	300	2	50	41,400	2	45
Other	600	4	38	119,400	7	27
No answer	1,000	7	52	66,300	4	36
<b>Total</b>	<b>15,200</b>	<b>100</b>	<b>10.4</b>	<b>1,729,400</b>	<b>100</b>	<b>3.3</b>
NONHARVESTERS						
Land investment	700	13	43	58,000	17	38
Recreational use	1,700	30	71	58,000	17	38
Timber production	0	0	100	8,300	3	100
Farm and domestic use	300	5	72	16,600	5	71
Esthetic enjoyment	1,300	23	46	82,900	25	32
Part of farm	700	13	57	33,100	10	50
Part of residence	200	4	58	24,800	8	58
Estate	400	7	71	33,200	10	50
Other	300	5	71	16,600	5	71
No answer	-	-	-	-	-	-
<b>Total</b>	<b>5,600</b>	<b>100</b>	<b>26.2</b>	<b>331,500</b>	<b>100</b>	<b>16.1</b>
ALL PRIVATE OWNERS						
Land investment	2,700	13	33	321,200	16	19
Recreational use	3,300	16	44	116,000	6	27
Timber production	600	3	43	402,100	19	31
Farm and domestic use	4,800	23	21	348,100	17	16
Esthetic enjoyment	2,400	12	29	215,500	10	20
Part of farm	1,500	7	31	149,100	7	24
Part of residence	2,900	14	23	232,000	11	19
Estate	700	3	43	74,600	4	34
Other	900	4	34	136,000	7	25
No answer	1,000	5	52	66,300	3	36
<b>Total</b>	<b>20,800</b>	<b>100</b>	<b>9.5</b>	<b>2,060,900</b>	<b>100</b>	<b>1.3</b>

Continued

Table 20.--continued

Primary reason for owning	Private owners		Sampling error, percent	Acres owned		Sampling error, percent
	Number	Percent		Number	Percent	
SOUTHERN REGION HARVESTERS						
Land investment	1,100	5	35	150,500	10	24
Recreational use	1,600	7	45	97,400	6	30
Timber production	300	1	44	158,900	11	31
Farm and domestic use	5,800	25	34	319,900	21	15
Esthetic enjoyment	2,400	10	34	168,300	11	22
Part of farm	1,000	4	26	177,100	12	22
Part of residence	9,100	39	52	256,800	17	18
Estate	600	3	57	62,000	4	37
Other	1,400	6	89	124,600	8	28
No answer	-	-	-	-	-	-
Total	23,300	100	22.4	1,515,500	100	3.7
NONHARVESTERS						
Land investment	500	3	55	44,300	11	44
Recreational use	200	1	59	26,600	6	58
Timber production	0	0	0	0	0	0
Farm and domestic use	200	1	100	8,900	2	100
Esthetic enjoyment	3,000	17	41	115,100	28	27
Part of farm	500	3	71	17,700	4	71
Part of residence	11,500	64	77	106,200	26	28
Estate	500	3	66	44,300	11	44
Other	500	3	58	35,400	8	50
No answer	900	5	71	17,700	4	71
Total	17,800	100	50.5	416,200	100	13.1
ALL PRIVATE OWNERS						
Land investment	1,600	4	29	194,800	10	20
Recreational use	1,800	4	41	124,000	6	26
Timber production	300	1	44	158,900	8	31
Farm and domestic use	6,000	15	33	328,800	17	15
Esthetic enjoyment	5,400	13	27	283,400	15	17
Part of farm	1,500	4	30	194,800	10	20
Part of residence	20,600	50	49	363,000	19	14
Estate	1,100	3	43	106,300	6	28
Other	1,900	4	67	160,000	8	24
No answer	900	2	71	17,700	1	71
Total	41,100	100	24.8	1,931,700	100	.9



Table 21.--Estimated number of private ownership units and acres of timberland owned, by primary benefit received in the last 10 years and region, Vermont, 1983

Primary benefit	Private owners		Sampling error, percent	Acres owned		Sampling error, percent
	Number	Percent		Number	Percent	
NORTHERN REGION						
Land value increase	3,700	18	39	312,900	15	19
Recreational use	2,100	10	36	132,600	7	25
Sale of timber	900	4	23	521,500	25	23
Farm and domestic use	2,200	11	20	265,200	13	18
Esthetic enjoyment	5,300	25	18	455,800	22	14
Firewood	4,100	20	26	207,200	10	20
Other	800	4	47	58,000	3	38
No answer	1,700	8	39	107,700	5	28
Total	20,800	100	9.5	2,060,900	100	1.3
SOUTHERN REGION						
Land value increase	3,300	8	43	230,200	12	19
Recreational use	2,700	7	34	141,700	7	24
Sale of timber	900	2	27	239,800	13	23
Farm and domestic use	2,800	7	29	247,900	13	18
Esthetic enjoyment	18,700	45	28	690,700	36	9
Firewood	2,500	6	24	239,100	12	18
Other	600	2	54	98,000	5	32
No answer	9,600	23	92	44,300	2	44
Total	41,100	100	24.8	1,931,700	100	.9
STATE TOTAL						
Land value increase	7,000	11	29	543,100	13	14
Recreational use	4,800	8	25	274,300	7	18
Sale of timber	1,800	3	18	761,300	19	17
Farm and domestic use	5,000	8	19	513,100	13	13
Esthetic enjoyment	24,000	39	22	1,146,500	29	8
Firewood	6,600	11	19	446,300	11	14
Other	1,400	2	35	156,000	4	25
No answer	11,300	18	79	152,000	4	24
Total	61,900	100	16.8	3,992,600	100	.8



Table 23.--Estimated number of private ownership units and acres of timberland owned, by primary benefit expected in the next 10 years and region, Vermont, 1983

Primary benefit	Private owners		Sampling error, percent	Acres owned		Sampling error, percent
	Number	Percent		Number	Percent	
NORTHERN REGION						
Land value increase	4,100	20	36	337,800	16	18
Recreational use	2,300	12	38	124,300	6	26
Sale of timber	1,100	5	26	546,400	26	22
Farm and domestic use	2,900	14	26	265,200	13	18
Esthetic enjoyment	4,800	23	20	389,500	19	15
Firewood	3,800	18	23	248,600	12	19
Other	900	4	44	74,600	4	34
No answer	900	4	43	74,500	4	34
<b>Total</b>	<b>20,800</b>	<b>100</b>	<b>9.5</b>	<b>2,060,900</b>	<b>100</b>	<b>1.3</b>
SOUTHERN REGION						
Land value increase	3,900	9	37	309,900	16	16
Recreational use	2,400	6	35	168,300	9	22
Sale of timber	1,200	3	24	290,400	15	19
Farm and domestic use	2,700	7	30	223,800	12	19
Esthetic enjoyment	18,300	45	29	602,100	31	10
Firewood	11,100	27	80	221,400	11	19
Other	500	1	53	89,200	5	34
No answer	1,000	2	68	26,600	1	58
<b>Total</b>	<b>41,100</b>	<b>100</b>	<b>24.8</b>	<b>1,931,700</b>	<b>100</b>	<b>.9</b>
STATE TOTAL						
Land value increase	8,000	13	26	647,700	16	12
Recreational use	4,700	8	26	292,600	7	17
Sale of timber	2,300	4	18	836,800	21	16
Farm and domestic use	5,600	9	20	489,000	12	13
Esthetic enjoyment	23,100	37	23	991,600	25	9
Firewood	14,900	24	60	470,000	12	13
Other	1,400	2	34	163,800	4	24
No answer	1,900	3	40	101,100	3	29
<b>Total</b>	<b>61,900</b>	<b>100</b>	<b>16.8</b>	<b>3,992,600</b>	<b>100</b>	<b>.8</b>



Table 24.--Estimated number of private ownership units who have harvested timber and acres of timberland owned, by reason for harvesting and form of ownership, Vermont, 1983

Reason for harvesting	Forest Industry	Farmer	Individual	Corporate	Other	Total
HARVESTERS						
Timber mature	100	1,000	2,300	200	100	3,700
Good price	-	100	300	-	-	400
Land clearing	-	400	200	-	-	600
Needed money	W	700	2,000	W	100	2,800
Own use	100	4,300	16,500	W	200	21,100
Company use	W	-	-	-	W	W
Timber salvage	-	500	1,500	-	100	2,100
Wildlife habitat	-	-	200	-	-	200
Improve view	-	-	W	-	-	W
Improve recreation	-	-	-	300	-	300
Cultural treatment	-	800	4,000	100	W	4,900
Special tax treatment	-	W	400	W	W	400
Other	200	100	400	-	-	700
No answer	W	100	1,100	-	100	1,300
Total	400	8,000	28,900	600	600	38,500
ACRES OWNED						
Timber mature	43,600	186,300	241,100	97,500	17,100	585,600
Good price	-	8,300	35,400	-	-	43,700
Land clearing	-	26,000	25,400	-	-	51,400
Needed money	8,300	140,000	229,400	17,100	8,300	403,100
Own use	8,800	332,300	460,600	24,900	44,300	870,900
Company use	269,200	-	-	-	19,900	289,100
Timber salvage	-	25,400	69,100	-	17,200	111,700
Wildlife habitat	-	-	25,400	-	-	25,400
Improve view	-	-	8,300	-	-	8,300
Improve recreation	-	-	-	17,700	-	17,700
Cultural treatment	-	137,200	335,700	43,700	61,500	578,100
Special tax treatment	-	8,700	16,600	8,900	8,900	43,100
Other	29,800	8,800	52,000	-	-	90,600
No answer	49,900	24,900	42,600	-	8,800	126,200
Total	409,600	897,900	1,541,600	209,800	186,000	3,244,900

W-Fewer than 50 owners or less than 0.5 percent.

Table 25.--Estimated number of private ownership units who have harvested timber and acres of timberland owned, by reason for harvesting and region, Vermont, 1983

Reason for harvesting	Harvesters		Sampling error, percent	Acres owned		Sampling error, percent
	Number	Percent		Number	Percent	
NORTHERN REGION						
Timber mature	1,500	10	33	257,300	15	19
Good price	100	1	100	8,300	W	100
Land clearing	200	1	77	24,800	2	58
Needed money	1,400	9	27	190,600	11	21
Own use	7,300	48	19	472,400	27	14
Company use	W	W	34	226,400	13	56
Timber salvage	1,100	7	50	49,700	3	41
Wildlife habitat	200	1	76	16,600	1	71
Improve view	W	W	100	8,300	W	100
Improve recreation	-	-	-	-	-	-
Cultural treatment	2,200	14	27	321,300	19	18
Special tax treatment	400	3	81	16,600	1	71
Other	400	3	64	46,300	3	55
No answer	400	3	52	90,800	5	43
Total	15,200	100	10.4	1,729,400	100	3.3
SOUTHERN REGION						
Timber mature	2,200	10	28	328,300	22	16
Good price	300	1	54	35,400	2	50
Land clearing	400	2	70	26,600	2	58
Needed money	1,400	6	23	212,500	14	19
Own use	13,800	59	38	398,500	26	14
Company use	W	W	55	62,700	4	69
Timber salvage	1,000	4	53	62,000	4	37
Wildlife habitat	W	W	100	8,800	1	100
Improve view	-	-	-	-	-	-
Improve recreation	300	1	83	17,700	1	71
Cultural treatment	2,700	12	31	256,800	17	18
Special tax treatment	W	W	71	26,500	2	58
Other	300	1	60	44,300	3	44
No answer	900	4	72	35,400	2	50
Total	23,300	100	22.4	1,515,500	100	3.7
STATE TOTAL						
Timber mature	3,700	10	21	585,600	18	12
Good price	400	1	48	43,700	1	45
Land clearing	600	1	57	51,400	2	41
Needed money	2,800	7	18	403,100	12	14
Own use	21,100	55	25	870,900	27	10
Company use	W	W	29	289,100	9	46
Timber salvage	2,100	5	36	111,700	3	28
Wildlife habitat	200	1	61	25,400	1	58
Improve view	W	W	100	8,300	W	100
Improve recreation	300	1	83	17,700	1	71
Cultural treatment	4,900	13	21	578,100	18	13
Special tax treatment	400	1	74	43,100	1	45
Other	700	2	45	90,600	3	36
No answer	1,300	3	51	126,200	4	34
Total	38,500	100	14.2	3,244,900	100	2.5

W-Fewer than 50 owners or less than 0.5 percent.

Table 26.--Estimated number of private ownership units who have not harvested timber and acres of timberland owned, by reason for not harvesting and form of ownership, Vermont, 1983

Reason for not harvesting	Forest Industry	Farmer	Individual	Corporate	Other	Total
OWNERS						
No market/price too low	-	-	100	-	W	100
Timber immature	-	W	700	-	-	700
Poor quality	-	600	9,100	-	-	9,700
Ruin scenery	-	-	2,700	-	100	2,800
Destroy hunting	-	-	600	-	-	600
Distrust loggers	-	300	400	-	-	700
Opposed to harvest	-	400	3,300	-	100	3,800
Low volume	-	-	2,300	-	-	2,300
Insufficient area	-	200	100	-	-	300
Insufficient knowledge	-	-	1,000	-	-	1,000
Other	-	-	1,000	200	-	1,200
No reason given	-	100	W	-	100	200
Total	-	1,600	21,300	200	300	23,400
ACRES OWNED						
No market/price too low	-	-	8,300	-	8,800	17,100
Timber immature	-	8,900	59,700	-	-	68,600
Poor quality	-	17,100	17,700	-	-	34,800
Ruin scenery	-	-	70,300	-	16,600	86,900
Destroy hunting	-	-	52,000	-	-	52,000
Distrust loggers	-	16,600	34,800	-	-	51,400
Opposed to harvest	-	17,100	102,300	-	8,900	128,300
Low volume	-	-	70,300	-	-	70,300
Insufficient area	-	8,300	8,300	-	-	16,600
Insufficient knowledge	-	-	102,300	-	-	102,300
Other	-	-	95,700	8,800	-	94,500
No reason given	-	8,300	8,300	-	8,300	24,900
Total	-	76,300	620,000	8,800	42,600	747,700

W-Fewer than 50 owners or less than 0.5 percent.



Table 27.--Estimated number of private ownership units who have not harvested timber and acres of timberland owned, by reason for not harvesting and region, Vermont, 1983

Reason for not harvesting	Nonharvesters		Sampling error, percent	Acres owned		Sampling error, percent
	Number	Percent		Number	Percent	
NORTHERN REGION						
No market/price too low	100	2	100	8,300	3	100
Timber immature	400	7	55	33,200	10	50
Poor quality	300	5	100	8,200	2	100
Ruin scenery	200	4	68	24,900	8	58
Destroy hunting	100	2	71	16,600	5	71
Distrust loggers	300	5	63	24,800	7	58
Opposed to harvest	2,600	46	52	66,300	20	36
Low volume	200	4	100	8,300	3	100
Insufficient area	300	5	71	16,600	5	71
Insufficient knowledge	600	11	42	58,000	17	38
Other	300	5	55	41,400	12	45
No reason given	200	4	63	24,900	8	58
Total	5,600	100	26.2	331,500	100	16.1
SOUTHERN REGION						
No market/price too low	W	W	100	8,800	2	100
Timber immature	300	2	70	35,400	9	50
Poor quality	9,400	53	94	26,600	6	58
Ruin scenery	2,600	14	46	62,000	15	37
Destroy hunting	500	3	67	35,400	9	50
Distrust loggers	400	2	65	26,600	6	58
Opposed to harvest	1,200	7	55	62,000	15	37
Low volume	2,100	12	52	62,000	15	37
Insufficient area	-	-	-	-	-	-
Insufficient knowledge	400	2	66	44,300	10	44
Other	900	5	51	53,100	13	40
No reason given	-	-	-	-	-	-
Total	17,800	100	50.5	416,200	100	13.1
STATE TOTAL						
No market/price too low	100	W	71	17,100	2	71
Timber immature	700	3	45	68,600	9	35
Poor quality	9,700	42	91	34,800	5	50
Ruin scenery	2,800	12	42	86,900	12	31
Destroy hunting	600	3	55	52,000	7	41
Distrust loggers	700	3	45	51,400	7	41
Opposed to harvest	3,800	16	39	128,300	17	26
Low volume	2,300	10	48	70,300	9	35
Insufficient area	300	1	71	16,600	2	71
Insufficient knowledge	1,000	4	37	102,300	14	29
Other	1,200	5	41	94,500	13	30
No reason given	200	1	63	24,900	3	58
Total	23,400	100	39.0	747,700	100	10.2

W-Fewer than 50 owners or less than 0.5 percent.

Table 28.--Estimated number of private ownership units and acres of timberland owned, by expected time of future harvest and by harvesters and nonharvesters, Vermont, 1983

Expected time of future harvest	Private ownership units			Acres owned		
	Number	Percent	Sampling error, percent	Number	Percent	Sampling error, percent
HARVESTERS						
1-10 years	25,300	66	10	2,724,900	84	4
Indefinite	6,500	17	34	309,700	10	16
Never	4,700	12	93	34,900	1	50
No answer	2,000	5	38	175,400	5	23
Total	38,500	100	14.2	3,244,900	100	2.5
NONHARVESTERS						
1-10 years	14,600	63	61	370,000	50	15
Indefinite	3,500	15	40	179,700	24	22
Never	3,600	15	35	129,400	17	26
No answer	1,700	7	56	68,600	9	35
Total	23,400	100	39.0	747,700	100	10.2
ALL PRIVATE OWNERS						
1-10 years	39,900	65	23	3,094,900	78	3
Indefinite	10,000	16	26	489,400	12	13
Never	8,300	13	55	164,300	4	23
No answer	3,700	6	33	244,000	6	19
Total	61,900	100	16.8	3,992,600	100	.8

Table 29.--Estimated number of private ownership units and acres of timberland owned, by expected time of future harvest and by harvesters and nonharvesters, Northern Region, Vermont, 1983

Expected time of future harvest	Private ownership units			Acres owned		
	Number	Percent	Sampling error, percent	Number	Percent	Sampling error, percent
HARVESTERS						
1-10 years	12,800	84	11	1,521,800	88	5
Indefinite	1,900	12	43	132,600	8	25
Never	100	1	100	8,300	W	100
No answer	400	3	58	66,700	4	40
Total	15,200	100	10.4	1,729,400	100	3.3
NONHARVESTERS						
1-10 years	2,000	36	27	157,400	47	23
Indefinite	2,100	38	59	91,200	28	30
Never	1,200	21	52	49,700	15	41
No answer	300	5	60	33,200	10	50
Total	5,600	100	26.2	331,500	100	16.1
ALL PRIVATE OWNERS						
1-10 years	14,800	71	10	1,679,200	81	4
Indefinite	4,000	19	37	223,800	11	20
Never	1,300	6	47	58,000	3	38
No answer	700	4	42	99,900	5	31
Total	20,800	100	9.5	2,060,900	100	1.3

W-Fewer than 50 owners or less than 0.5 percent.



Table 30.--Estimated number of private ownership units and acres of timberland owned, by expected time of future harvest and by harvesters and nonharvesters, Southern Region, Vermont, 1983

Expected time of future harvest	Private ownership units			Acres owned		
	Number	Percent	Sampling error, percent	Number	Percent	Sampling error, percent
HARVESTERS						
1-10 years	12,500	53	17	1,203,100	79	6
Indefinite	4,600	20	44	177,100	12	22
Never	4,600	20	97	26,600	2	58
No answer	1,600	7	44	108,700	7	28
Total	23,300	100	22.4	1,515,500	100	3.7
NONHARVESTERS						
1-10 years	12,600	71	70	212,600	51	19
Indefinite	1,400	8	47	88,500	21	31
Never	2,400	13	45	79,700	19	33
No answer	1,400	8	68	35,400	9	50
Total	17,800	100	50.5	416,200	100	13.1
ALL PRIVATE OWNERS						
1-10 years	25,100	61	36	1,415,700	73	4
Indefinite	6,000	15	35	265,600	14	17
Never	7,000	17	65	106,300	6	28
No answer	3,000	7	39	144,100	7	24
Total	41,100	100	24.8	1,931,700	100	.9

Table 31.--Estimated number of private ownership units and acres of timberland owned, by size class and expected time of future harvest, Vermont, 1983

Size class (acres)	Expected time of future harvest						Total		
	Next 10 years		Indefinite		Never				
	Number	Percent	Number	Percent	Number	Percent			
1-9	10,700	27	3,900	39	4,400	53	19,000	31	
10-19	3,200	8	1,700	17	800	10	1,500	41	
20-49	10,700	27	1,900	19	2,100	25	1,200	32	
50-99	7,100	18	700	7	500	6	400	11	
100-199	5,000	12	1,300	13	400	5	500	13	
200-499	2,700	7	400	4	100	1	W	W	
500-999	300	1	100	1	-	-	100	3	
1000-4999	200	W	W	W	-	-	W	W	
5000+	W	W	-	-	-	-	W	W	
Total	39,900	100	10,000	100	8,300	100	3,700	100	61,900
OWNERS									
1-9	17,700	1	26,000	5	8,900	5	-	-	52,600
10-19	51,400	2	26,000	5	8,900	5	17,700	7	104,000
20-49	316,800	10	60,300	12	60,300	37	43,700	18	481,100
50-99	454,500	15	50,900	11	34,300	21	25,400	10	565,100
100-199	632,000	20	163,700	34	43,700	27	69,100	28	908,500
200-499	714,900	23	102,800	21	8,200	5	8,900	4	834,800
500-999	214,500	7	34,300	7	-	-	16,600	7	265,400
1000-4999	260,600	8	25,400	5	-	-	25,400	11	311,400
5000+	432,500	14	-	-	-	-	37,200	15	469,700
Total	3,094,900	100	489,400	100	164,300	100	244,000	100	3,992,600
ACRES OWNED									
1-9	17,700	1	26,000	5	8,900	5	-	-	52,600
10-19	51,400	2	26,000	5	8,900	5	17,700	7	104,000
20-49	316,800	10	60,300	12	60,300	37	43,700	18	481,100
50-99	454,500	15	50,900	11	34,300	21	25,400	10	565,100
100-199	632,000	20	163,700	34	43,700	27	69,100	28	908,500
200-499	714,900	23	102,800	21	8,200	5	8,900	4	834,800
500-999	214,500	7	34,300	7	-	-	16,600	7	265,400
1000-4999	260,600	8	25,400	5	-	-	25,400	11	311,400
5000+	432,500	14	-	-	-	-	37,200	15	469,700
Total	3,094,900	100	489,400	100	164,300	100	244,000	100	3,992,600

W-Fewer than 50 owners or less than 0.5 percent.

Table 32.--Estimated number of private ownership units who have harvested timber and acres of timberland owned, by individual selecting timber for sale and individual selecting timber for own use, Vermont, 1983

Individual selecting timber	Own Use							Total	
	Landowner	Forester	Buyer	Landowner Forester	Landowner Buyer	Forester Buyer	Other <sup>a</sup>		No answer
<u>Sale</u>									
HARVESTERS									
Landowner	9,800	-	-	-	-	-	-	700	10,500
Forester	700	1,200	-	W	-	-	-	-	3,300
Buyer	1,400	W	600	100	-	-	200	-	3,800
Landowner and forester	W	W	-	700	-	-	-	300	1,000
Landowner and buyer	100	-	-	-	200	-	-	400	700
Forester and buyer	100	-	-	W	-	500	-	W	600
Other <sup>a</sup>	100	-	-	-	-	-	400	-	600
No Answer	10,600	800	200	1,500	1,500	-	1,200	2,200	18,000
Total	22,800	2,000	800	2,300	1,700	500	1,800	6,600	38,500
ACRES OWNED									
Landowner	433,400	-	-	8,300	-	-	-	-	493,700
Forester	112,300	289,300	-	8,300	-	-	-	-	819,600
Buyer	139,400	8,300	120,000	17,100	-	-	8,300	-	490,000
Landowner and forester	8,300	-	-	119,100	-	-	-	-	339,200
Landowner and buyer	25,400	-	-	-	43,700	-	-	-	111,100
Forester and buyer	26,000	-	-	8,300	-	26,600	8,800	33,700	103,400
Other <sup>a</sup>	16,600	-	-	-	-	-	34,300	8,200	59,100
No Answer	504,300	50,900	17,100	51,400	17,100	-	42,600	145,500	828,900
Total	1,265,700	348,500	137,100	212,500	60,800	26,600	94,000	1,099,800	3,245,000

<sup>a</sup>Includes friend, landowner and friend, friend and buyer.

W-Fewer than 50 owners or less than 0.5 percent.



Table 33.--Estimated number of private ownership units who have harvested timber and acres of timberland owned, by individual selecting timber for sale and class of ownership, Vermont, 1983

Individual selecting timber for sale	Nonindustrial private landowners									
	Forest industry		1 - 49 acres		50 - 499 acres		500+ acres		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
	HARVESTERS									
Landowner	W	-	7,700	18	2,700	14	100	14	10,500	17
Forester	100	25	700	2	2,300	12	200	29	3,300	5
Buyer	W	-	1,400	3	2,200	12	200	29	3,800	6
Landowner and forester	W	-	200	1	800	4	W	-	1,000	2
Landowner and buyer	200	50	-	-	500	3	W	-	700	1
Forester and buyer	-	-	300	1	300	2	W	14	600	1
Other <sup>a</sup>	-	-	-	-	600	3	-	-	600	1
Harvest for own use only <sup>b</sup>	100	25	12,800	56	5,000	35	100	14	18,000	46
Total	400	100	23,100	100	14,400	100	600	100	38,500	100
	ACRES OWNED									
Landowner	8,900	2	85,100	21	341,100	19	58,600	10	493,700	15
Forester	174,500	43	26,000	6	332,900	19	286,200	46	819,600	25
Buyer	8,300	2	43,200	11	327,400	18	111,100	18	490,000	15
Landowner and forester	192,500	47	8,300	2	111,200	6	27,200	4	339,200	11
Landowner and buyer	8,300	2	-	-	68,500	4	34,300	6	111,100	3
Forester and buyer	-	-	8,800	2	43,200	2	51,400	8	103,400	3
Other <sup>a</sup>	-	-	-	-	59,100	3	-	0	59,100	2
Harvest for own use only <sup>b</sup>	17,100	4	240,000	58	520,800	29	51,000	8	828,900	26
Total	409,600	100	411,400	100	1,804,200	100	619,800	100	3,245,000	100

W-Fewer than 50 owners or less than 0.5 percent.

<sup>a</sup>Includes friend, landowner and friend, friend and buyer.

<sup>b</sup>Also includes harvesters who did not answer.

Table 34.--Estimated number of private ownership units who have harvested timber and acres of timberland owned, by individual selecting timber for own use and size class of ownership, Vermont, 1983

Individual selecting timber for own use	Nonindustrial private landowners													
	Forest industry			1 - 49 acres			50 - 499 acres			500+ acres			Total	
	Number	Percent		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	
	HARVESTERS													
Landowner	100	25		15,100	65	7,400	52	200	33	22,800	59			
Forester	-	-		700	3	1,200	8	100	17	2,000	5			
Buyer	-	-		-	-	700	5	100	17	800	2			
Landowner and forester	100	25		900	4	1,300	9	-	-	2,300	6			
Landowner and buyer	-	-		1,500	7	200	1	-	-	1,700	5			
Forester and buyer	-	-		300	1	200	1	-	-	500	1			
Other <sup>a</sup>	-	-		1,400	6	400	3	-	-	1,800	5			
Harvest for sale only <sup>b</sup>	200	50		3,200	14	3,000	21	200	33	6,600	17			
Total	400	100		23,100	100	14,400	100	600	100	38,500	100			
	ACRES OWNED													
Landowner	26,600	7		205,700	50	879,700	49	153,700	25	1,265,700	38			
Forester	41,100	10		24,900	6	169,700	9	112,800	18	348,500	11			
Buyer	-	-		-	-	103,400	6	33,700	6	137,100	4			
Landowner and forester	41,100	10		26,000	6	137,100	8	8,300	1	212,500	7			
Landowner and buyer	-	-		8,900	2	43,100	2	8,800	1	60,800	2			
Forester and buyer	-	-		8,900	2	8,900	1	8,800	1	26,600	1			
Other <sup>a</sup>	-	-		42,500	11	42,600	2	8,900	2	94,000	3			
Harvest for sale only <sup>b</sup>	300,800	73		94,500	23	419,700	23	284,800	46	1,099,800	34			
Total	409,600	100		411,400	100	1,804,200	100	619,800	100	3,245,000	100			

<sup>a</sup>Includes friend, landowner and friend, friend and buyer.

<sup>b</sup>Also includes harvesters who did not answer.

Table 35.--Estimated number of private ownership units who have harvested timber and acres of timberland owned, by method of selecting timber for sale and method of selecting timber for own use, Vermont, 1983

Method of selecting timber	Industrial use										Total
	Marked trees	Diameter Limit	All trees	Land Clearing	Logger's Pick	Other	Combination of methods	Don't know	No Answer		
Own use											
Marked trees	3,500	100	-	-	300	-	-	5200	6,100	15,200	
Diameter limit	400	1,200	-	-	200	200	-	-	600	2,600	
All trees	100	-	200	-	W	-	-	-	200	500	
Land clearing	200	W	W	-	-	W	W	W	500	700	
Logger's pick	100	-	-	-	1,400	-	-	200	1,400	3,100	
Other	-	100	W	-	100	200	W	W	3,500	3,900	
Combination of methods	-	-	-	-	W	-	W	-	900	900	
Don't know	200	200	100	-	-	-	-	2,000	2,400	4,900	
No answer	1,300	700	100	W	600	W	300	1,400	2,300	6,700	
Total	5,800	2,300	400	W	2,600	400	300	8,800	17,900	38,500	
ACRES OWNED											
Marked trees	388,800	8,900	-	-	43,100	-	-	78,000	254,300	773,100	
Diameter limit	33,700	166,200	-	-	17,100	8,300	-	-	76,300	301,600	
All trees	8,300	-	16,600	-	8,900	-	-	-	8,800	42,600	
Land clearing	34,300	8,300	8,800	-	-	8,300	-	8,300	34,900	102,900	
Loggers pick	17,200	-	-	-	146,000	-	-	25,400	68,500	257,100	
Other	-	8,200	8,300	-	8,800	42,000	8,900	8,900	121,700	206,800	
Combination	-	-	-	-	8,900	-	8,300	-	34,300	51,500	
Don't know	8,300	24,800	8,300	-	8,900	-	-	311,400	59,700	412,500	
No answer	259,800	77,500	25,400	8,900	68,600	8,900	43,700	433,800	170,300	1,096,900	
Total	750,400	293,900	67,400	8,900	301,400	67,500	60,900	865,800	828,800	3,245,000	

W-Fewer than 50 owners or less than 0.5 percent.



Table 36.--Estimated number of private ownership units who have harvested timber and acres of timberland owned, by method of selecting timber for sale and size class of ownership, Vermont, 1983

Method of selecting timber for sale	Nonindustrial private landowners									
	Forest industry		1 - 49 acres		50 - 499 acres		500+ acres		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
	HARVESTERS									
Marked trees	100	25	2,300	10	3,200	22	200	33	5,800	15
Diameter limit	W	-	1,000	4	1,200	8	100	16	2,300	6
All trees	-	-	200	1	200	1	W	-	400	1
Land clearing	-	-	-	-	-	-	W	-	W	-
Logger's pick	-	-	600	3	1,900	13	100	17	2,600	7
Other	-	-	-	-	400	3	W	-	400	1
Combination	-	-	-	-	300	2	W	-	300	1
Don't know	300	75	6,300	27	2,100	15	100	17	8,800	23
No answer	W	-	12,700	55	5,100	36	100	17	17,900	46
Total	400	100	23,100	100	14,400	100	600	100	38,500	100
	ACRES OWNED									
Marked trees	60,200	15	69,100	17	391,400	22	229,700	37	750,400	23
Diameter limit	19,600	5	25,400	6	179,700	10	69,200	11	293,900	9
All trees	-	-	8,300	2	50,800	3	8,300	1	67,400	2
Land Clearing	-	-	-	-	-	-	8,900	1	8,900	-
Logger's Pick	-	-	24,900	6	242,200	13	34,300	6	301,400	9
Other	-	-	-	-	41,500	2	26,000	4	67,500	2
Combination	-	-	-	-	43,200	2	17,700	3	60,900	2
Don't know	312,700	76	52,000	13	318,000	18	183,100	30	865,800	27
No answer	17,100	4	231,700	56	537,400	30	42,600	7	828,800	26
Total	409,600	100	411,400	100	1,804,200	100	619,800	100	3,245,000	100

W-Fewer than 50 owners or less than 0.5 percent.

Table 37.--Estimated number of private ownership units who have harvested timber and acres of timberland owned, by method of selecting timber for own use and size class of ownership, Vermont, 1983

Method of selecting timber for own use	Nonindustrial private landowners											
	Forest industry		1 - 49 acres		50 - 499 acres		500+ acres		Total			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent		
Marked trees	-	-	10,500	45	4,500	31	200	33	15,200	40		
Diameter limit	W	-	1,100	5	1,400	10	100	17	2,600	7		
All trees	-	-	200	1	300	2	-	-	500	1		
Land clearing	100	25	300	1	300	2	-	-	700	2		
Logger's pick	100	25	1,300	6	1,700	12	-	-	3,100	8		
Other	W	-	3,000	13	900	6	-	-	3,900	10		
Combination	-	-	600	3	300	2	-	-	900	2		
Don't know	W	-	3,100	13	1,700	12	100	17	4,900	13		
No answer	200	50	3,000	13	3,300	23	200	33	6,700	17		
Total	400	100	23,100	100	14,400	100	600	100	38,500	100		
ACRES OWNED												
Marked trees	-	-	128,300	31	460,500	26	184,300	30	773,100	24		
Diameter Limit	19,600	5	34,300	8	189,100	10	58,600	10	301,600	9		
All trees	-	-	8,300	2	25,400	1	8,900	1	42,600	1		
Land clearing	8,900	2	8,900	2	59,700	3	25,400	4	102,900	3		
Logger's pick	8,800	2	34,300	8	196,300	11	17,700	3	257,100	8		
Other	8,800	2	43,100	11	120,000	7	34,900	6	206,800	6		
Combination	-	-	17,100	4	34,300	2	-	-	51,400	2		
Don't know	62,600	15	51,400	13	264,900	15	33,700	5	412,600	13		
No answer	300,900	74	85,700	21	454,000	25	256,300	41	1,096,900	34		
Total	409,600	100	411,400	100	1,804,200	100	619,800	100	3,245,000	100		

W-Fewer than 50 owners or less than 0.5 percent.

Table 38.--Estimated number of private ownership units who have harvested timber and acres of timberland owned, by individual selecting timber for sale and method of selecting timber for sale, Vermont, 1983

Individual selecting timber for sale	Marked trees	Diameter Limit	All trees	Land Clearing	Logger's Pick	Other	Combination of methods	Don't know	No Answer	Total
Landowner	1,300	1,500	300	-	600	400	200	6,100	100	10,500
Forester	2,700	W	W	-	-	W	-	400	200	3,300
Buyer	400	600	100	-	1,600	-	100	1,000	W	3,800
Landowner and forester	200	100	-	W	100	-	600	-	-	1,000
Landowner and buyer	-	100	W	-	100	-	-	500	-	700
Forester and buyer	500	-	-	-	100	W	W	W	-	600
Other <sup>a</sup>	300	-	-	-	100	-	-	200	-	600
No answer	400	W	-	-	-	-	-	-	17,600	18,000
Total	5,800	2,300	400	-	2,600	400	300	8,800	17,900	38,500
ACRES OWNED										
Landowner	92,300	102,300	4,300	-	59,200	50,200	17,700	120,600	17,100	493,700
Forester	511,500	28,400	8,300	-	-	8,900	-	245,900	16,600	819,600
Buyer	34,900	69,100	6,500	-	190,300	-	34,900	136,000	8,300	490,000
Landowner and forester	42,600	26,600	-	8,900	8,300	-	-	252,800	-	339,200
Landowner and buyer	-	17,200	8,300	-	17,100	-	-	68,600	-	111,200
Forester and buyer	35,400	-	-	-	17,700	8,300	8,300	33,700	-	103,400
Other <sup>a</sup>	16,600	25,400	-	-	8,800	-	-	8,300	-	59,100
No answer	17,100	24,900	-	-	-	-	-	-	786,800	828,800
Total	750,400	293,900	67,400	8,900	301,400	67,400	60,900	865,900	828,800	3,245,000

<sup>a</sup>Includes friend, landowner and friend, friend and buyer.

W-Fewer than 50 owners or less than 0.5 percent.



Table 39.--Estimated number of private ownership units who have harvested timber and acres of timberland owned, by individual selecting timber for own use and method of selecting timber for own use, Vermont, 1983

Individual selecting timber for own use	Marked trees	Diameter Limit	All trees	Land Clearing	Logger's Pick	Other	Combination of methods	Don't know	No Answer	Total
HARVESTERS										
Landowner	12,200	1,900	500	800	1,900	3,200	300	1,800	200	22,800
Forester	1,700	W	-	-	-	-	-	200	100	2,000
Buyer	W	100	-	-	400	100	-	100	-	700
Landowner and forester	800	W	-	-	-	300	-	1,200	-	2,300
Landowner and buyer	-	-	-	-	100	-	-	1,600	-	1,700
Forester and buyer	300	-	-	-	W	-	-	-	200	500
Other <sup>a</sup>	100	200	-	-	600	300	600	-	-	1,800
No answer	100	300	-	W	100	W	W	-	6,200	6,700
Total	15,200	2,500	500	800	3,100	3,900	900	4,900	6,700	38,500
ACRES OWNED										
Landowner	402,500	222,300	42,600	94,600	118,900	172,500	134,900	26,000	51,400	1,265,700
Forester	248,800	19,600	-	-	-	-	55,200	-	24,900	348,500
Buyer	8,800	17,100	-	-	60,300	8,900	42,000	-	-	137,100
Landowner and forester	58,600	8,300	-	-	-	8,800	136,800	-	-	212,500
Landowner and buyer	-	-	-	-	17,200	-	43,700	-	-	60,900
Forester and buyer	8,900	-	-	-	8,800	-	-	-	8,900	26,600
Other <sup>a</sup>	16,600	17,200	-	-	34,800	8,300	-	17,100	-	94,000
No answer	28,900	17,100	-	8,300	17,100	8,300	-	8,300	1,011,700	1,099,700
Total	773,100	301,600	42,600	102,900	257,100	206,800	412,600	51,400	1,096,900	3,245,000

<sup>a</sup>Includes friend, landowner and friend, friend and buyer.

W-Fewer than 50 owners or less than 0.5 percent.

Table 40.--Estimated number of private ownership units and acres of timberland owned, by timber product harvested, forest industry, and private land owners (size class ownership), Vermont, 1983

Nonindustrial private landowners											
Timber products	Forest industry		1 - 49 acres		50 - 499 acres		500+ acres		Total		
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	
OWNERS											
Fuelwood-personal	200	50	20,000	87	12,400	86	400	67	32,900	85	
Fuelwood-sale	300	75	1,700	7	4,500	31	300	50	6,700	17	
Sawlogs	400	100	8,900	39	8,500	59	500	83	18,300	48	
Pulpwood	400	100	6,300	27	4,000	28	300	50	10,900	28	
Other-personal	W	W	3,500	15	3,100	22	100	17	6,600	17	
Christmas trees	-	-	400	2	700	5	100	17	1,200	3	
Other products-sale	W	W	1,500	6	1,600	11	100	17	3,200	8	
Don't know	-	-	-	-	W	W	W	W	W	W	
Total <sup>a</sup>	400	100	23,100	100	14,400	100	600	100	38,500	100	
ACRES OWNED											
Fuelwood-personal	86,500	21	334,600	81	1,505,700	83	355,100	57	2,281,800	70	
Fuelwood-sale	355,100	87	52,000	13	651,400	36	447,800	72	1,506,300	46	
Sawlogs	392,400	96	144,300	35	1,181,700	65	577,200	93	2,295,600	71	
Pulpwood	392,400	96	59,700	15	570,600	32	352,100	57	1,374,800	42	
Other-personal	51,100	12	85,700	21	400,300	22	59,700	10	596,800	18	
Christmas trees	-	-	8,300	2	117,200	6	106,200	17	231,600	7	
Other-sale	115,500	28	34,900	8	177,400	10	142,900	23	470,700	15	
Don't know	-	-	-	-	8,800	W	8,900	1	17,700	W	
Total <sup>a</sup>	409,600	100	411,400	100	1,804,200	100	619,700	100	3,245,000	100	

<sup>a</sup>Items do not add to totals because some owners harvested more than one product.  
W-Fewer than 50 owners or less than 0.5 percent.

Table 41.--Estimated number of private ownership units and acres of timberland owned, by agency that owners would contact for forestry assistance, and size class of ownership, Vermont, 1983

Agency	Nonindustrial private landowners											
	Forest industry		1 - 49 acres		50 - 499 acres		500+ acres		Total			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent		
County or district forester	100	25	6,300	15	6,600	35	300	44	13,300	21		
State forester	W	W	900	2	800	4	100	14	1,800	3		
Soil Conservation Service	-	-	-	-	200	1	W	W	200	W		
U.S. Forest Service	-	-	400	1	1,200	7	-	-	1,600	3		
Agricultural Stabilization and Conservation Service	-	-	400	1	200	1	-	-	600	1		
Consultant or industry forester	W	W	1,800	4	800	4	100	14	2,700	4		
Extension service	W	W	15,400	37	1,100	6	W	W	16,500	27		
Other	W	W	600	2	400	2	W	W	1,000	2		
Don't know	200	50	8,100	19	2,700	14	100	14	11,100	18		
No answer	100	25	8,000	19	4,900	26	100	14	13,100	21		
Total	400	100	41,900	100	18,900	100	700	100	61,900	100		
				ACRES OWNED								
County or district forester	17,700	4	145,400	23	941,100	41	306,500	46	1,410,700	35		
State forester	24,900	6	26,000	4	111,200	5	42,500	6	204,600	5		
Soil Conservation Service	-	-	-	-	8,300	0	8,300	1	16,600	W		
U.S. Forest Service	-	-	8,900	1	112,200	5	-	-	121,100	3		
Agricultural Stabilization and Conservation Service	-	-	16,600	3	24,800	1	-	-	41,400	1		
Consultant or industry forester	231,900	57	43,700	7	111,700	5	70,900	11	458,200	12		
Extension service	21,500	5	69,700	11	102,900	5	44,900	7	239,000	6		
Other	10,000	3	17,100	3	60,300	3	26,000	4	113,400	3		
Don't know	34,100	8	156,600	25	298,000	13	69,700	10	558,400	14		
No answer	69,500	17	145,400	23	512,000	22	102,300	15	829,200	21		
Total	409,600	100	629,400	100	2,282,500	100	671,100	100	3,992,600	100		

W-Fewer than 50 owners or less than 0.5 percent.



Table 42.--Estimated number of private ownership units and acres of timberland owned, by harvesters and nonharvesters, size class, and decision to seek assistance, Vermont, 1983

Assistance	Nonindustrial private landowners										Sampling error, percent
	Forest industry		1 - 49 acres		50 - 499 acres		500+ acres		Total		
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	
	HARVESTERS										
Sought assistance	200	50	8,000	35	9,500	66	500	83	18,200	47	10
No assistance	200	50	14,400	62	4,600	32	100	17	19,300	50	28
No answer	-	-	700	3	300	2	W	W	1,000	3	45
Total	400	100	23,100	100	14,400	100	600	100	38,500	100	14.2
	NONHARVESTERS										
Sought assistance	-	-	3,400	18	1,400	31	W	W	4,800	21	31
No assistance	-	-	15,100	80	3,100	69	100	100	18,300	78	49
No answer	-	-	300	2	-	-	-	-	300	1	100
Total	-	-	18,800	100	4,500	100	100	100	23,400	100	39.0
	TOTAL										
Sought assistance	200	50	11,400	27	10,900	58	500	71	23,000	37	
No assistance	200	50	29,500	71	7,700	41	200	29	37,600	61	
No answer	-	-	1,000	2	300	1	W	W	1,300	2	
Total	400	100	41,900	100	18,900	100	700	100	61,900	100	16.8

Continued

Table 42. Continued

Assistance	Nonindustrial private landowners										Total	Sampling error, percent
	Forest industry		1 - 49 acres		50 - 499 acres		500+ acres		Total			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent		
	393,000	96	221,700	54	1,229,700	68	542,900	88	2,387,300	73	5	
No assistance	16,600	4	164,300	40	524,200	29	68,500	11	773,600	24	10	
No answer	-	-	25,400	6	50,300	3	8,300	1	84,000	3	32	
Total	409,600	100	411,400	100	1,804,200	100	619,700	100	3,244,900	100	2.5	
	ACRES OWNED BY HARVESTERS											
	-	-	70,300	32	196,800	41	26,000	51	293,100	39	17	
No assistance	-	-	138,800	64	281,500	59	25,400	49	445,700	60	14	
No answer	-	-	8,900	4	-	-	-	-	8,900	1	100	
Total	-	-	218,000	100	478,300	100	51,400	100	747,700	100	10.2	
	ACRES OWNED BY NONHARVESTERS											
	393,000	96	292,000	46	1,426,500	63	568,900	85	2,680,400	67		
No assistance	16,600	4	303,100	48	805,700	35	93,900	14	1,219,300	31		
No answer	-	-	34,300	6	50,300	2	8,300	1	92,900	2		
Total	409,600	100	629,400	100	2,282,500	100	671,100	100	3,992,600	100	.8	

W-Fewer than 50 owners or less than 0.5 percent.

Table 43.--Estimated number of private ownership units and acres of timberland owned, by agency that owners would contact for forestry assistance, and decision to seek assistance, Vermont, 1983

Agency	Sought assistance		No assistance		No answer		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
OWNERS								
County or district forester	10,800	47	2,400	6	100	8	13,300	21
State forestry	1,600	7	200	1	-	-	1,800	3
Soil Conservation Service	200	1	-	-	-	-	200	W
Forest Service	900	4	700	2	-	-	1,600	3
Agricultural Stabilization and Conservation Service	500	2	100	W	-	-	600	1
Consultant or industry forester	1,400	6	1,300	3	-	-	2,700	4
Extension service	1,600	7	14,600	39	300	23	16,500	27
Other	700	3	300	1	-	-	1,000	2
Don't know	2,300	10	8,800	23	-	-	11,100	18
No answer	3,000	13	9,200	25	900	69	13,100	21
Total	23,000	100	37,600	100	1,300	100	61,900	100
ACRES OWNED								
County or district forester	1,205,000	45	189,100	16	16,600	18	1,410,700	35
State forestry	170,900	6	33,700	3	-	-	204,600	5
Soil Conservation Service	16,600	1	-	-	-	-	16,600	W
Forest Service	68,500	3	52,600	4	-	-	121,100	3
Agricultural Stabilization and Conservation Service	24,800	1	16,600	1	-	-	41,400	1
Consultant or industry forester	406,800	15	51,400	4	-	-	458,200	12
Extension service	160,400	6	69,700	6	8,900	10	239,000	6
Other	96,300	4	17,100	1	-	-	113,400	3
Don't know	198,400	7	360,000	30	-	-	558,400	14
No answer	332,700	12	429,100	35	67,400	72	829,200	21
Total	2,680,400	100	1,219,300	100	92,900	100	3,992,600	100

W-Fewer than 50 owners or less than 0.5 percent.

Table 44.--Estimated number of private ownership units who have received forestry assistance and acres of timberland owned, by type of assistance, Vermont, 1983

Type of assistance	Owners assisted		Acres owned	
	Number	Percent	Number	Percent
Information about forestry	13,400	22	1,481,200	37
Help with tree planting	4,300	7	680,100	17
General forest management	16,700	27	1,827,000	46
Help with timber sales	5,700	9	708,000	18
Help with insects or diseases	1,900	3	187,600	5
Information about wildlife	3,200	5	257,800	6
Information on taxes	1,700	3	179,100	4
Information on forest recreation	700	1	17,700	0
Other	1,400	2	294,600	7
All types	23,000	37	2,680,400	67
No answer	38,900	63	1,312,200	33
Total	61,900	100	3,992,600	100

<sup>a</sup>Individual items do not add to total because some owners have received more than one type of assistance.

W-Fewer than 50 owners or less than 0.5 percent.

Table 45.--Estimated number of private ownership units and acres of timberland owned, by availability for recreation, Vermont, 1983

Recreation availability	Private owners		Acres owned	
	Number	Percent	Number	Percent
Owner permits recreation by general public	20,200	33	2,305,800	58
Owner permits recreation by family and friends only	23,500	38	748,300	19
No answers to who's permitted	100	W	36,700	1
Total recreational use	43,800	71	3,090,800	78
No recreational use	15,900	26	807,200	20
No answer to availability	2,200	3	94,600	2
Total	61,900	100	3,992,600	100

W-Fewer than 50 owners or less than 0.5 percent.



Table 46.--Estimated number of private ownership units and acres of timberland owned, by type of recreational use, by the owner, the owner's family, or immediate circle of friends, Vermont, 1983

Recreation by owner, family, and friends	Private owners			Acres owned		
	Number	Percent	Sampling error, percent	Number	Percent	Sampling error, percent
Hiking	26,200	42	35	913,600	23	9
Picnicking	12,400	20	19	704,500	18	11
Camping	9,600	16	17	601,100	15	11
Hunting	6,700	11	19	499,400	13	13
Fishing	14,500	23	62	362,300	9	15
Snowmobiling	12,200	20	73	315,100	8	16
Winter sports	16,800	27	53	509,400	13	12
Bird watching	10,000	16	21	516,000	13	12
Other	2,200	4	36	126,000	3	26
All types, owner use <sup>a</sup>	35,700	57	26	1,821,100	46	6
Public only	8,000	13	19	1,233,000	31	10
Recreate, no type given	100	W	-	36,700	1	-
No answer	2,200	4	51	94,600	2	30
No recreation	15,900	26	30	807,200	20	10
Total	61,900	100	17	3,992,600	100	1

<sup>a</sup>Columns do not add to total because some owners permit more than one type of use.  
W-Fewer than 50 owners or less than 0.5 percent.

Table 47.--Estimated number of private ownership units and acres of timberland owned, by type of public use permitted, Vermont, 1983

Type of public use	Private owners			Acres owned		
	Number	Percent	Sampling error, percent	Number	Percent	Sampling error, percent
Hiking	5,900	10	16	1,157,000	29	11
Picnicking	2,300	4	20	823,000	21	16
Camping	2,900	5	25	638,900	16	14
Hunting	10,500	17	15	1,551,600	39	8
Fishing	5,000	8	19	1,081,200	27	12
Snowmobiling	7,400	12	19	1,224,700	31	10
Winter sports	5,400	9	18	1,010,400	25	13
Bird watching	5,100	8	20	979,000	25	14
Other	500	1	54	186,600		25
All types, public use <sup>a</sup>	20,200	33	12	2,305,900	58	5
Public use not permitted-- owner is	23,500	38	39	748,200	19	10
Recreate, no type given	100	W	-	36,700	1	-
No recreational use	15,900	26	30	807,200	20	10
No answer	2,200	3	51	94,600	2	30
Total	61,900	100	17	3,992,600	100	1

<sup>a</sup>Columns do not add to total because some owners permit more than one type of use.  
W-Fewer than 50 owners or less than 0.5 percent.

Table 48.--Estimated number of private ownership units and acres of timberland owned, by availability for public recreational use and region, Vermont, 1983

Recreational use	Northern Region		Southern Region		Total	
	Number	Percent	Number	Percent	Number	Percent
OWNERS						
Public use:						
Hiking	2,700	13	3,200	8	5,900	10
Hunting	6,100	29	4,500	11	10,600	17
Fishing	2,300	11	2,700	7	5,000	8
Snomobiling	4,500	22	2,900	7	7,400	12
Bird watching	2,300	11	2,900	7	5,200	8
All types <sup>a</sup>	10,700	51	9,500	23	20,200	33
No answer	10,100	49	31,600	77	41,700	67
Total	20,800	100	41,100	100	61,900	100
ACRES OWNED						
Public use:						
Hiking	679,900	33	477,000	25	1,156,900	29
Hunting	870,900	42	308,800	16	1,179,700	30
Fishing	621,900	30	459,300	24	1,081,200	27
Snowmobiling	730,000	35	494,700	26	1,224,700	31
Bird watching	563,900	27	415,000	21	978,900	25
All types <sup>a</sup>	1,306,400	63	999,500	52	2,305,900	58
No answer	754,500	37	932,200	48	1,686,700	42
Total	2,060,900	100	1,931,700	100	3,992,600	100

<sup>a</sup>Columns do not add to total because some owners permit more than one type of use. Total also includes picnicking, camping, and winter sports.

Table 49.--Estimated number of private ownership units and acres of timberland owned for recreational use by the owner, the owner's family, or immediate circle of friends, by geographic region, Vermont, 1983

Recreational use	Northern Region		Southern Region		Total	
	Number	Percent	Number	Percent	Number	Percent
OWNERS						
Owner recreation:						
Hiking	6,100	29	20,100	49	26,200	42
Hunting	3,000	14	3,700	9	6,700	11
Fishing	2,000	10	12,500	30	14,500	23
Snowmobiling	2,000	10	10,100	25	12,000	19
Winter sports	3,300	16	13,400	33	16,700	27
Bird watching	3,500	17	6,500	16	10,000	16
All types <sup>a</sup>	11,700	56	24,000	58	35,700	58
No answer	9,100	44	17,100	42	26,200	42
Total	20,800	100	41,100	100	61,900	100
ACRES OWNED						
Owner recreation:						
Hiking	364,600	18	549,000	28	913,600	23
Hunting	207,200	10	292,200	15	499,400	13
Fishing	140,900	7	221,400	11	362,300	9
Snowmobiling	182,300	9	132,800	7	315,100	8
Winter sports	190,600	9	318,800	17	509,400	13
Bird Watching	223,800	11	292,200	15	516,000	13
All types <sup>a</sup>	891,300	43	929,800	48	1,821,100	46
No answer	1,169,600	57	1,001,900	52	2,171,500	54
Total	2,060,900	100	1,931,700	100	3,992,600	100

<sup>a</sup>Columns do not add to total because some owners permit more than one type of use.

Table 50.--Estimated number of private ownership units and acres of timberland owned, by availability for recreational use and size class, Vermont, 1983

Availability for recreation	1 - 49 acres		50 - 499 acres		500+ acres		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
	OWNERS							
Public permitted	9,400	22	10,400	54	400	57	20,200	33
Not permitted and No answer	32,700	78	8,700	46	300	43	41,700	67
Total	42,100	100	19,100	100	700	100	61,900	100
	ACRES OWNED							
Public permitted	213,400	33	1,272,800	55	819,600	78	2,305,800	58
Not permitted and No answer	424,200	67	1,035,700	45	226,900	22	1,686,800	42
Total	637,600	100	2,308,500	100	1,046,500	100	3,992,600	100



Table 51.--Estimated number of private ownership units and acres of timberland owned, by availability for hunting, Vermont, 1983

Hunting availability	Private owners			Acres owned		
	Number	Percent	Sampling error, percent	Number	Percent	Sampling error, percent
Owner permits hunting and does not hunt	10,500	17	15	1,551,600	39	8
Owner hunts and permits hunting	4,900	8	22	496,000	12	14
Owner hunts and does not permit hunting	1,300	2	46	121,100	3	3
Owner hunts and did not answer on availability	5,400	9	21	378,300	10	15
Subtotal hunting	22,100	36	13	2,547,000	64	6
No answer	39,800	64	26	1,445,600	36	7
Total	61,900	100	17	3,992,600	100	1

Table 52.---Estimated number of private ownership units and acres of timberland owned, by reason for posting and use permitted, Vermont, 1983

Reason for posting	Public permitted		No answer		Total		
	Number	Percent	Number	Percent	Number	Percent	Sampling error, percent
OWNERS							
Past abuse	600	3	1,500	4	2,100	3	27
Safety	900	4	1,200	3	2,100	3	30
Liability	200	1	500	1	700	1	70
Control hunting	300	1	2,700	6	3,000	5	30
Prohibit hunting	300	1	1,400	3	1,700	3	40
Control access	W	W	400	1	400	1	52
Prohibit access	100	-	900	2	1,000	2	66
Other	-	-	300	1	300	W	77
No reason given	100	W	-	-	100	W	86
Total posted	2,500	12	8,900	21	11,400	18	14
Not posted	17,400	86	30,900	74	48,300	78	21
No answer	300	2	1,900	5	2,200	4	48
Total	20,200	100	41,700	100	61,900	100	17
ACRES OWNED							
Past abuse	70,300	3	145,400	9	215,700	6	20
Safety	292,700	13	138,300	8	431,000	11	31
Liability	8,900	W	25,400	1	34,300	1	50
Control hunting	47,500	2	156,000	9	203,500	5	22
Prohibit hunting	33,100	2	87,400	5	120,500	3	27
Control access	8,800	W	42,600	3	51,400	1	41
Prohibit access	17,100	1	17,700	1	34,800	1	50
Other	W	W	36,200	2	36,200	1	51
No reason given	16,600	1	-	-	16,600	W	71
All reasons	495,000	22	649,000	38	1,144,000	29	12
Not posted	1,802,500	78	961,000	57	2,763,500	69	5
No answer	8,300	W	76,800	5	85,100	2	32
Total	2,305,800	100	1,686,800	100	3,992,600	100	1

W-Fewer than 50 owners or less than 0.5 percent.

Table 53.--Estimated number of private ownership units and acres of timberland owned, by posting status posted and geographic region, Vermont, 1983

Posting status	Northern Unit		Southern Unit		Total	
	Number	Percent	Number	Percent	Number	Percent
OWNERS						
Land posted	3,900	19	7,500	18	11,400	18
Land not posted	16,000	77	32,300	79	48,300	78
No answer	900	4	1,300	3	2,200	4
Total	20,800	100	41,100	100	61,900	100
ACRES OWNED						
Land posted	551,200	27	592,800	31	1,144,000	29
Land not posted	1,460,000	71	1,303,500	67	2,763,500	69
No answer	49,700	2	35,400	2	85,100	2
Total	2,060,900	100	1,931,700	100	3,992,600	100

Table 54.--Estimated number of private ownership units and acres of timberland owned, by size class and posting status, Vermont, 1983

Posting status	1 - 49 acres		50 - 499 acres		500+ acres		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
OWNERS								
Posted	6,000	14	5,300	28	200	29	11,500	19
Not posted	34,200	81	13,600	71	500	71	48,300	78
No answer	1,900	5	200	1	-	-	2,100	3
Total	42,100	100	19,100	100	700	100	61,900	100
ACRES OWNED								
Posted	173,100	27	594,000	26	376,900	36	1,144,000	29
Not posted	422,000	66	1,689,100	73	652,400	62	2,763,500	69
No answer	42,600	7	25,400	1	17,100	2	85,100	2
Total	637,700	100	2,308,500	100	1,046,400	100	3,992,600	100



Table 55.--Estimated number of acres of private timberland owned, by expected time of future harvest, and size class, Vermont, 1983

Time of future harvest	Nonindustrial private landowners									
	Forest Industry		1 - 49 acres		50 - 499 acres		500+ acres		Total	
	Acres	Percent	Acres	Percent	Acres	Percent	Acres	Percent	Acres	Percent
1 - 10 years										
Available	337,500	82	321,600	51	1,571,100	69	517,300	77	2,747,500	69
Other	26,600	7	56,100	9	204,300	9	60,400	9	347,400	9
Total	364,100	89	377,700	60	1,775,400	78	577,700	86	3,094,900	78
Indefinite										
Available	8,300	2	87,200	14	253,700	11	39,400	6	388,600	10
Other	-	-	25,100	4	63,700	3	12,000	2	100,800	3
Total	8,300	2	112,300	18	317,400	14	51,400	8	489,400	12
Never	-	-	78,000	12	86,300	4	-	-	164,300	4
No answer	37,200	9	61,400	10	103,400	5	42,000	6	244,000	6
Total	409,600	100	629,400	100	2,282,500	100	671,100	100	3,992,600	100

Table 56.--Estimated number of private ownership units and acres of timberland owned, by expected time of future harvest for industrial use and for own use, Vermont, 1983

Expected time of future harvest	Private ownership units			Acres owned		
	Number	Percent	Sampling error, percent	Number	Percent	Sampling error, percent
<u>1-10 years</u>						
Industrial and own	8,100	13	13	1,172,500	30	8
Industrial and own indefinite	700	1	74	42,600	1	45
Industrial and own never	100	W	97	25,400	1	58
Industrial and own no answer	1,600	3	22	624,200	16	22
Own and industrial indefinite	6,400	10	19	493,100	12	13
Own and industrial never	1,600	3	43	94,600	2	30
Own and industrial no answer	21,400	35	23	642,500	16	11
<b>Total</b>	<b>39,900</b>	<b>65</b>	<b>23</b>	<b>3,094,900</b>	<b>78</b>	<b>6</b>
<u>Indefinite</u>						
Industrial and own	4,500	7	44	188,600	5	21
Industrial and own never	600	1	73	42,600	1	45
Industrial and own no answer	1,700	3	48	128,800	3	26
Own and industrial never	900	1	52	43,700	1	44
Own and industrial no answer	2,300	4	57	85,700	2	32
<b>Total</b>	<b>10,000</b>	<b>16</b>	<b>26</b>	<b>489,400</b>	<b>12</b>	<b>13</b>
<u>Never</u>						
Industry and own	3,800	6	33	146,600	4	-
Industry and own no answer	-	-	-	-	-	-
Own and industrial no answer	4,500	7	97	17,700	W	70
<b>Total</b>	<b>8,300</b>	<b>13</b>	<b>55</b>	<b>164,300</b>	<b>4</b>	<b>23</b>
<b>No answer</b>	<b>3,700</b>	<b>6</b>	<b>33</b>	<b>244,000</b>	<b>6</b>	<b>19</b>
<b>Total</b>	<b>61,900</b>	<b>100</b>	<b>17</b>	<b>3,992,600</b>	<b>100</b>	<b>1</b>

W-Fewer than 50 owners or less than 0.5 percent.



Table 58.--Estimated number of private ownership units and acres of timberland owned, by conservation-oriented and regional publications they receive, Vermont, 1983

Publication	Owners	Percent	Acres Owned	Percent
National Wildlife	9,100	15	573,200	14
Ranger Rick	9,900	16	414,800	10
Sports Afield	2,700	4	341,100	9
Audubon	2,800	5	427,800	11
Agway Corporator	4,900	8	611,700	15
American Forests	1,300	2	647,900	16
Connecticut Woodlands	-	-	-	-
Yankee	25,200	41	1,153,600	29
Field Notes	200	W	127,600	3
Connecticut Magazine	500	1	43,100	1
In Touch	-	-	-	-
Field and Stream	7,200	12	505,400	13
New Hampshire Times	100	-	34,900	1
Tree Farm Notes	800	1	530,500	13
New Hampshire Profiles	300	W	25,400	1
Country Journal	18,500	30	1,202,400	30
Northern Logger	1,000	2	668,000	17
Farm Journal	6,300	10	666,300	17
Forest Notes	200	W	332,000	8
New Hampshire Natural Resources	W	W	8,300	-
Vermont Life	25,300	41	1,731,000	43
Other magazines	9,500	15	682,700	17
Any magazines	49,500	80	3,200,100	80
No magazines	9,700	16	632,000	16
No answer	2,700	4	160,534	4

W-Fewer than 50 owners or less than 0.5 percent.





Widmann, Richard H.; Birch, Thomas W. 1988. Forest-land owners of Vermont--1983. Resour. Bull. NE-102. Broomall, PA: U.S. Department of Agriculture, Forest Service, Northeastern Forest Experiment Station. 89 p.

A statistical analytical report on a mail canvass of private timberland owners in Vermont. The study was conducted in conjunction with the third forest survey of Vermont by the USDA Forest Service. It discusses landowner characteristics, attitudes, and intentions of owners regarding reasons for owning, recreational use, timber management, and harvesting.

Keywords: Available timber, harvesting, forestry assistance, recreation, forest-land ownership



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Headquarters of the Northeastern Forest Experiment Station are in Broomall, Pa. Field laboratories are maintained at:

- Amherst, Massachusetts, in cooperation with the University of Massachusetts.
- Berea, Kentucky, in cooperation with Berea College.
- Burlington, Vermont, in cooperation with the University of Vermont.
- Delaware, Ohio.
- Durham, New Hampshire, in cooperation with the University of New Hampshire.
- Hamden, Connecticut, in cooperation with Yale University.
- Morgantown, West Virginia, in cooperation with West Virginia University, Morgantown.
- Orono, Maine, in cooperation with the University of Maine, Orono.
- Parsons, West Virginia.
- Princeton, West Virginia.
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- Warren, Pennsylvania.

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