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THE FOREST-LAND OWNERS OF PENNSYLVANIA

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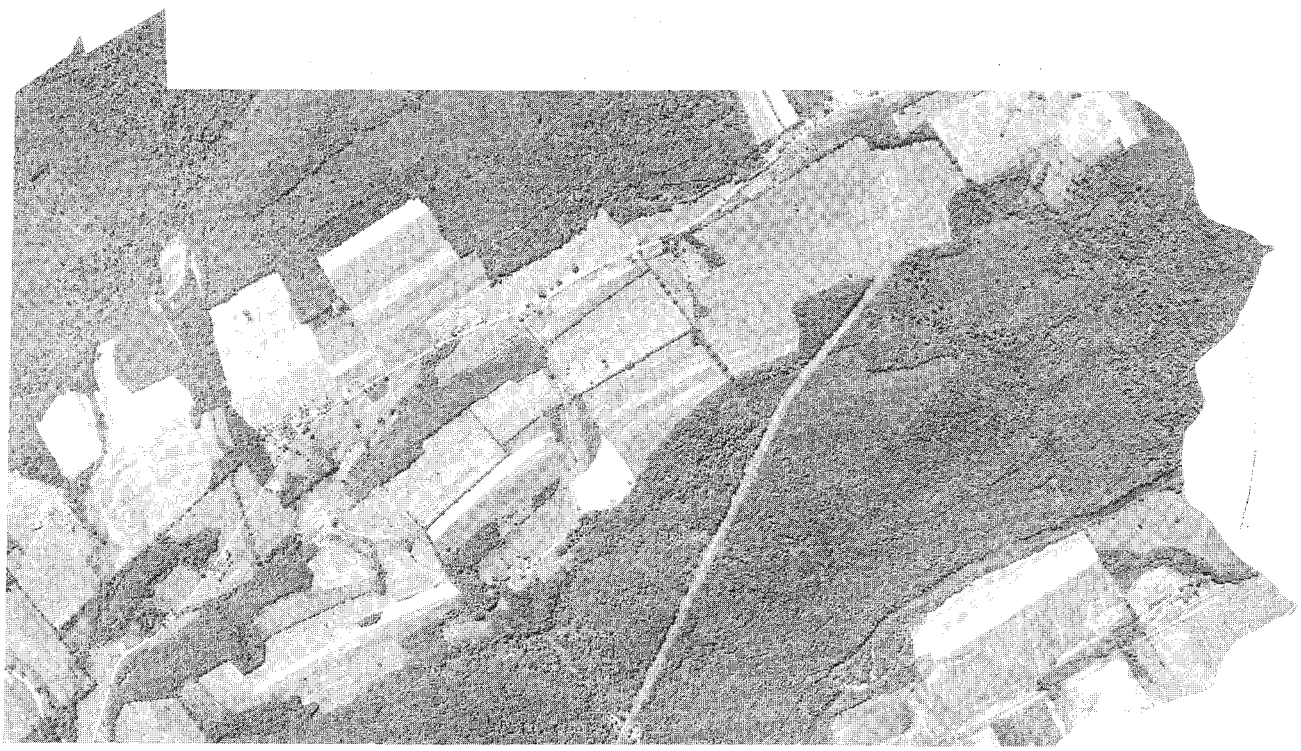

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Abstract

Seventy-eight percent of Pennsylvania's 15.9 million acres of commercial forest land is in the hands of 490,100 private owners. Landowner information is, therefore, an essential component in obtaining a thorough understanding of Pennsylvania's forest resources. Eighty-six percent of these owners are individuals. A large majority, 63 percent of these owners, live within a mile of their nearest tract and 86 percent own only one tract. Slightly more than half have held woodland for more than 10 years. Forest industries hold only 8 percent of the privately owned forest land. Benefits other than timber production are most important to most landowners, 75 percent have never harvested timber. Slightly more than half of the private owners permit some form of recreational use of their land by the public.

COVER PHOTO

AN AERIAL VIEW IN SCHUYLKILL COUNTY, PENNSYLVANIA

THE FOREST-LAND OWNERS OF PENNSYLVANIA

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HIGHLIGHTS

- Seventy-eight percent (12.5 million acres) of Pennsylvania's commercial forest land is in private ownerships.

- Thirty-seven percent of the owners hold more than 10 acres each and account for 82 percent of the private forest land.

- Eighty-six percent of the owners are individuals.

- Slightly more than half of the private landowners, holding 66 percent of the forest land, permit some form of recreational use of their land by the public.

- Forest industries own 8 percent of the privately held forest land.

- Benefits other than timber production are most important to Pennsylvania landowners.

- Seventy-five percent of the owners have never harvested timber.

INTRODUCTION

DECISIONS CONCERNING our renewable forest resources are vital to the social and economic well-being of society. Good decisionmaking requires a thorough knowledge of the resource base and the factors affecting it. This report, when combined with the most recent inventory of Pennsylvania's forest resources[1], will provide a significant portion of this information.

The Pennsylvania forest survey provides estimates of forest area and timber volume by broad owner categories as well as information on other forest values. This report describes the attitudes of typical forest-land owners, their reasons for owning forest land and their views toward timber harvesting, forest management, and recreational uses of their land.

This information will be useful to public agencies when planning and organizing forestry and related programs, to forest industry wishing to locate available supplies of timber, and to others wishing to learn more about the characteristics of forest-land owners. Seventy-eight percent of the 15.9 million acres of commercial forest land in Pennsylvania is in private hands. Landowner information is an essential component in obtaining a thorough understanding of Pennsylvania's forest resources.

The data presented here are based on a sample of forest-land owners. The results have been statistically expanded to estimate the total population of private forest-land owners and the acreage they own. Users of this report are advised to read the definitions of terms and the discussion of the study design and sampling errors included in the Appendix. Tables supporting conclusions found in the text are also contained in the Appendix.

[1]Powell, Douglas S., and Thomas Considine, Jr. 1980. The forest resources of Pennsylvania. (In Process.)

THE FOREST-LAND OWNERS

An estimated 490,100 private owners hold 12,452,800 acres of commercial forest land in Pennsylvania. Sixty-three percent of these owners hold less than 10 acres each and collectively control only 8 percent of the private forest land. Another 600 owners, holding 1,000 or more acres each, own 20 percent of the privately owned commercial forest land (Fig. 1).

The average private forest land ownership is 25 acres. If ownerships of less than 10 acres are excluded, the average rises to 63 acres. The average size of holding varies considerably among the geographic units, ranging from 11 acres in the Southeastern Unit to 55 acres in the Allegheny Unit (Fig. 2).

Eighty-six percent of the private owners are individuals, collectively holding 69 percent of the privately owned commercial forest land. Two percent of the owners are corporations and they hold just over 2.2 million acres, 18 percent of the privately owned forest land. The remaining 12 percent of the commercial forest land is held by partnerships, undivided estates, clubs, and associations.

Thirty percent of Pennsylvania's individually owned forest land (2½ million acres) is held by business owners, executives, professionals

Figure 1.—Distribution of private ownerships, by size class of ownership.

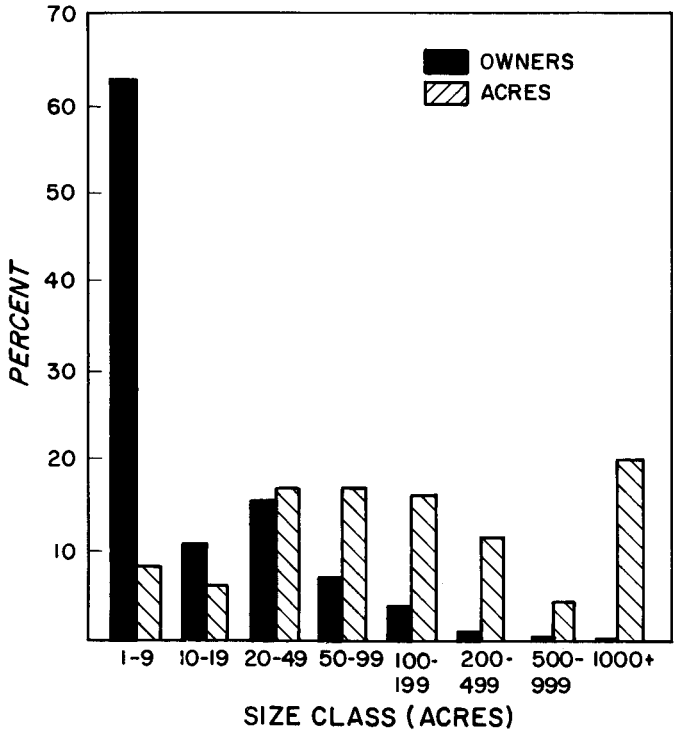


Figure 2.—Relative distribution of private forest-land owners and private commercial forest land in Pennsylvania for each geographic unit.

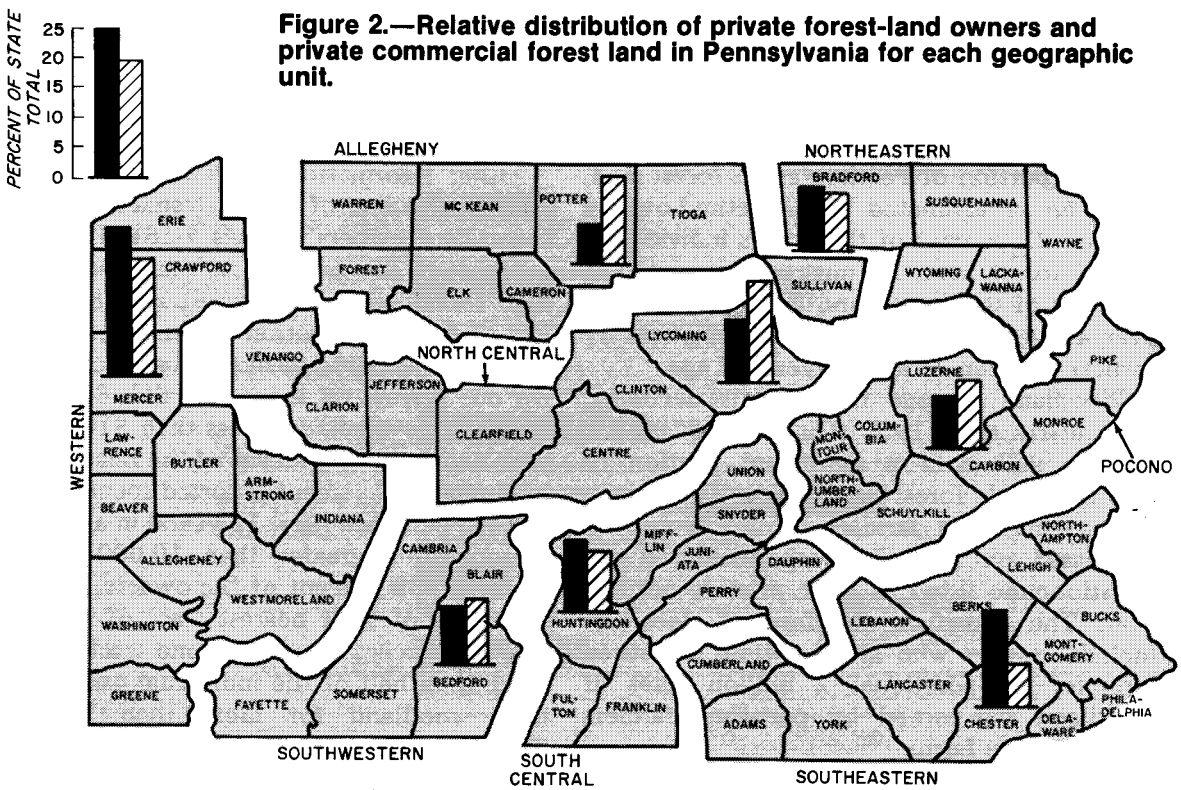
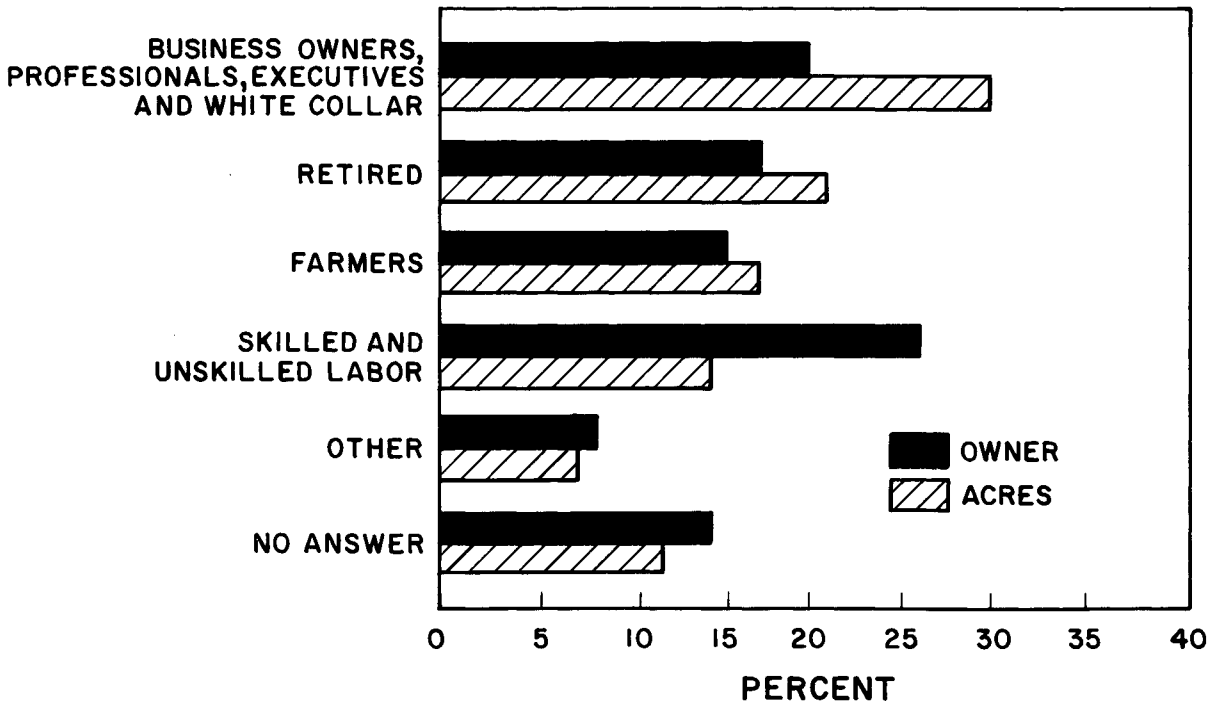


Figure 3.—Distribution of individual ownerships, by owner occupation.



and white collar workers (Table 6, Fig. 3). These owners are particularly numerous in the Allegheny and North Central units.

As in other states, retired people own a significant portion of Pennsylvania's forest land. There are an estimated 72,100 retired owners holding 21 percent of the state's individually owned forest land. As might be expected, a majority of the forest land is held by owners over 45 years old, almost half being held by owners between 45 and 64 years of age.

Woodland acreage in farms is declining, particularly since 1959 (Gingrich 1978), but farmers still hold a significant portion of Pennsylvania's forest land, 1.5 million acres. Our estimates of farmers owning woodland are based on what the respondents to our questionnaire listed as their primary occupation. The classification "farmer" does not include owners who are part-time or retired farmers. An additional 2 million acres of woodland are owned by part-time farmers and corporate farms.

Skilled and unskilled laborers, housewives, and miscellaneous other private owners collectively represent 34 percent of the individual owners and hold 22 percent of the individually held forest land.

Other information provides us with a general description of Pennsylvania's individual forest-land owners (Tables 7-16). Thirty-two percent of the owners are educated beyond high school while 24 percent have 8 years or less of formal education. Twenty-one percent of the owners did not indicate an income class for our survey. Of those that did, 60 percent had a gross income of less than $15,000 per year and hold 52 percent of the related forest land. Only 16 percent reported spending most of their early life (first 12 years) in a city with a population greater than 10,000. A large majority, 63 percent of the owners, live within a mile of their nearest tract of woodland and 86 percent own only one tract. Slightly more than half of the individual owners have held woodland for more than 10 years. These owners hold 65 percent of the individually owned commercial forest land.

CORPORATE AND OTHER OWNERS

There are an estimated 9,000 corporations owning just over 2.2 million acres of forest land in Pennsylvania. Excluding owners of less than 10 acres, the average corporate holding is 323 acres. A large portion of the corporate ownership is in the Allegheny Unit, where corporations own 783,800 acres or 41 percent of the privately owned forest land. More than half of this is forest industry land.

As is expected, forest industries hold a larger amount of the corporate-owned forest land than any other type of corporation. We estimate that 100 forest industry owners collectively hold 651,300 acres of forest land. However, even with the addition of 312,800 acres of noncorporate forest industry land, this represents only 8 percent of Pennsylvania's privately owned commercial forest land. Pennsylvania's forest industry lands are primarily located in the Allegheny and North Central units.

Real estate corporations hold 13 percent of the 2.2 million acres of corporate held forest land and are a particularly important ownership component in the Pocono Unit.

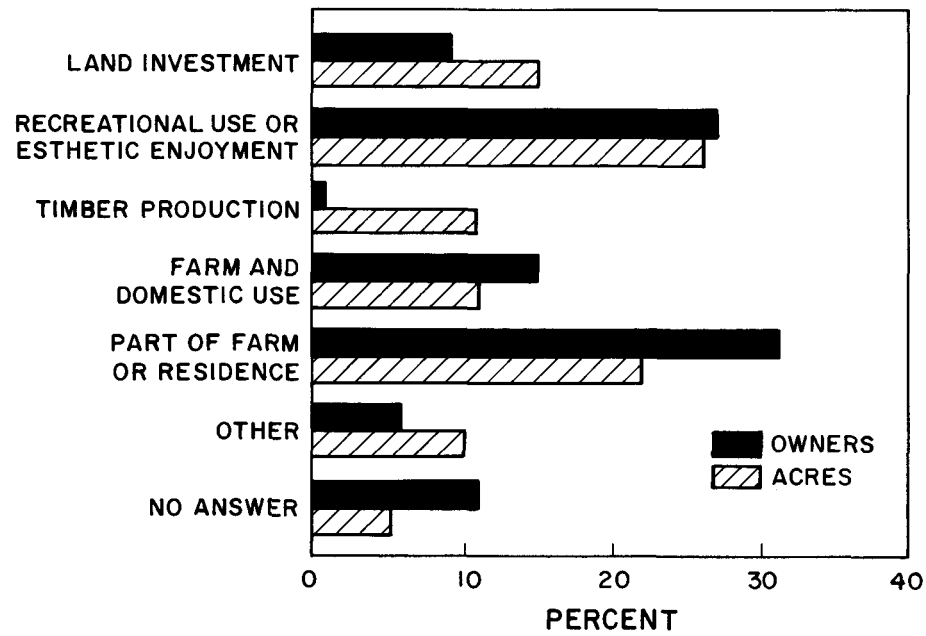
Nonforest industries collectively hold 29 percent of the corporate-held forest land. Many of these companies are primarily interested in the subsurface materials (coal, oil, natural gas) located within their boundaries. The remaining corporate acreage is held by nonindustrial firms, corporate farms, public utilities, and sports and recreation clubs. Other owners of forest land are partnerships, undivided estates, and noncorporate sports and recreation clubs.

Sports and recreation clubs are an important ownership component, holding over 600,000 acres or 5 percent of Pennsylvania's privately owned forest land. Much of this acreage, 556,000 acres, is held by hunting and fishing clubs, most having held forest land for more than 10 years.

OWNER OBJECTIVES

Land values continue to increase throughout the country. Land investment is often thought of as a hedge against inflation. However, only 9 percent of the private landowners, holding 15 percent of the forest land, listed land investment as their primary reason for holding forest land (Fig. 4, Tables 17-23).

Figure 4.—Distribution of private ownerships, by primary reason for owning forest land.



Thirteen percent of the owners believe that an increase in land value was the most important benefit derived from their land during the past 5 years, and 16 percent expect land value increase to be the most important benefit during the next 5 years. As a group, these owners hold larger than average-size tracts.

Land value increase accrues to all landowners to some extent. Landowners might not list this as a primary reason for holding forest land because they do not realize this benefit until they sell their land (and many do not plan to sell) or because values other than monetary gains are more important reasons for holding woodland. This view also influences timber production.

Only 1 percent of all landowners hold forest land primarily for timber production. However, their average holding is 443 acres, much larger than that for landowners with other primary reasons for owning woodland. These data include forest industry landowners; few nonindustrial private landowners hold forest land primarily for timber production. In the Allegheny Unit, 42 percent of the privately owned forest land is held primarily for timber production, most of which is held by forest industry.

Another 2 percent of the landowners listed timber production as their secondary reason for owning woodland. Adding the acreage held by these landowners to that held primarily for timber production, we find that 3 percent of the landowners holding just over 2 million acres hold land with timber production in mind.

A significant portion (30 percent) of the nonindustrial private forest-land owners believes the primary reason for owning forest land is that it is simply part of a farm or residence. This indicates that these owners have no firm objective in mind. Another 15 percent of the owners believe that farm or domestic use is the most important reason for owning forest land. These owners consider their woodlot as a source of fenceposts, fuelwood, and similar products. In general, these groups hold slightly smaller than average-size tracts.

Either recreation or esthetic enjoyment is the primary reason why 27 percent of the owners hold forest land. More owners listed esthetic enjoyment as the primary benefit derived in the last 5 years and the most important benefit during the next 5 years than any other benefit.

WHO HARVESTS TIMBER AND WHY

Throughout our survey we found that owners holding larger areas of forest land are more likely to have harvested in the past and have a higher probability of harvesting in the future (Tables 24, 25, 28-37). This is probably due to the tendency of larger owners to look at their land as an income-producing asset and to economies of scale in harvesting larger parcels. The average-size holding for timber harvesters is 53 acres compared with an average of 25 acres for all private landowners.

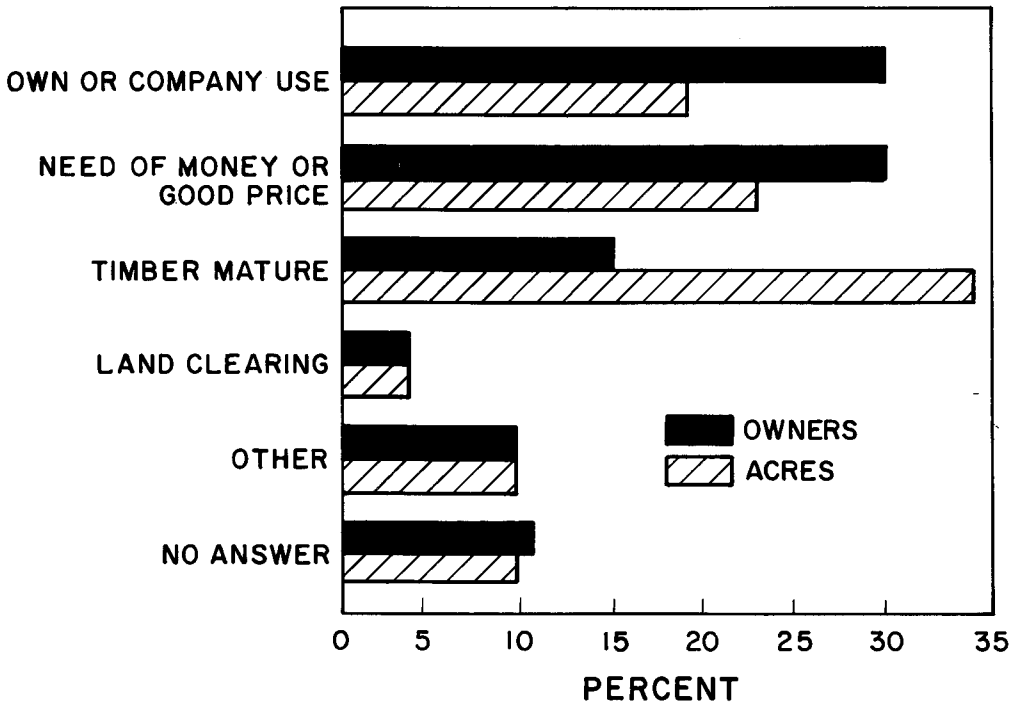
In general, landowners who are farm oriented have a greater tendency to harvest timber than others. Many of these owners harvest timber for their own use. No significant relationships between timber harvesting and other owner characteristics were detected in our survey. In all, 25 percent of Pennsylvania's private forest-land owners, holding just over 6.5 million acres, have harvested timber.

Thirty percent of the harvesters indicated that they did so for their own or company use (Fig. 5). On the average, individual owners in this group own smaller parcels than the average harvester, while corporations harvesting for their own use hold larger tracts. Of course, this is weighted heavily by the large holdings of forest industries. As fuelwood use becomes more popular, we expect to see more individuals, many with small parcels, cutting firewood for their own use.

Another 30 percent indicated that they harvested because they needed the money or were offered a good price. Individuals that harvested because they were offered a good price (4 percent of the individuals harvesting timber) hold considerably larger than average-size tracts. By contrast, those who harvested because they needed the money own smaller than average tracts.

Fifteen percent of the private owners har-

Figure 5.—Distribution of private forest-land owners who have harvested timber, by reason for harvesting.



vesting timber did so because they felt the timber was mature. These owners hold 34 percent of the land held by harvesters and hold considerably more forest land than the average harvester.

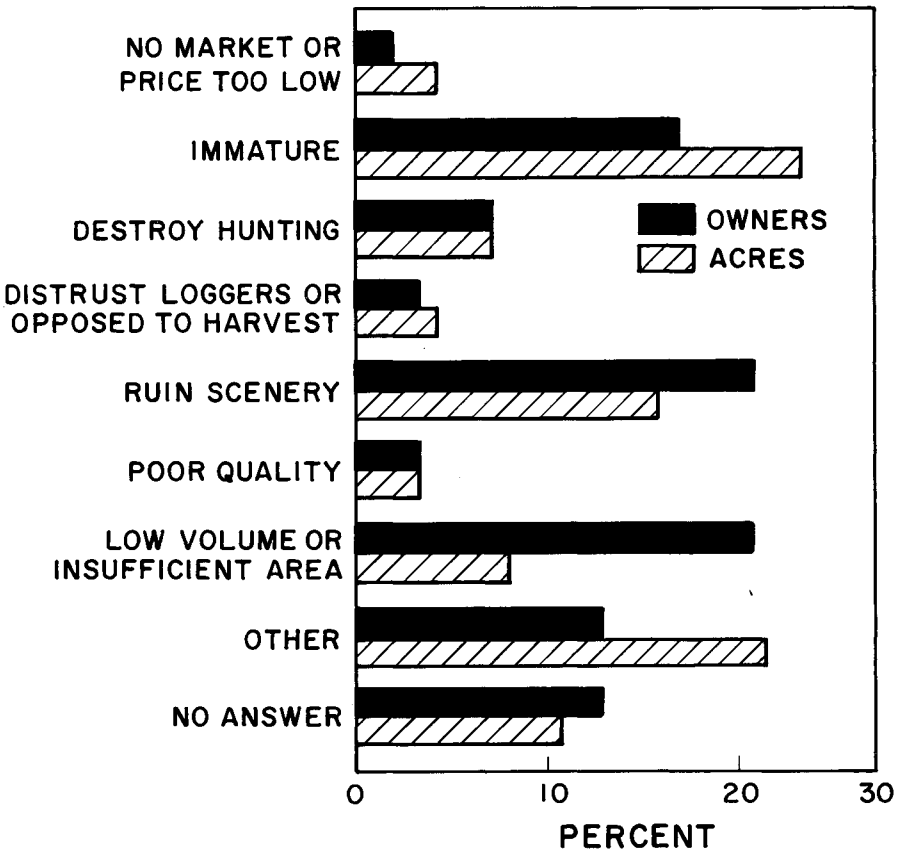
The remaining harvesters did so for land clearing, timber salvage, cultural treatment, or for other reasons. It is interesting to note that few (less than 0.5 percent) harvested timber for the purpose of cultural treatment. Many forest landowners in Pennsylvania have no desire or are unable to invest time or money in cultural operations. Many have little knowledge of forestry and the benefits achievable through forestry investment.

Why many owners have not harvested

Seventy-five percent of the private forest-land owners in Pennsylvania have never harvested timber. These owners hold 5.9 million acres, 47 percent of the privately owned commercial forest land. The average held by non-harvesters is 16 acres, approximately one-third of the average area held by harvesters. Owners holding more than half of this acreage indicate that they may harvest sometime in the future (Tables 26-30).

Almost 1.5 million acres, 25 percent of the forest land held by nonharvesters, was not

Figure 6.—Distribution of private forest-land owners who have not harvested timber, by reason for not harvesting.



harvested because the owners believed the timber was immature (Fig. 6). Twenty-one percent of this land is held by owners who indicate that they will never harvest timber, some because they will not own the land when the timber matures.

The most frequently cited reason for not harvesting was that timber harvesting would ruin the scenery. These owners hold 16 percent of the forest land held by nonharvesters and in general hold smaller tracts, averaging 12 acres. Almost half of this acreage is held by owners who indicated thay may harvest sometime; but very few of these owners plan to harvest within the next 10 years. Those that do hold an average of 55 acres.

Another 13 percent of the nonharvesting owners indicated they did not harvest because their holdings were too small. These owners hold an average of only 3 acres, generally too small for an economical logging operation. Owners holding 7 percent of the land not harvested for this reason plan to harvest timber within the next 10 years. However, these owners hold an average of 45 acres. Similarly, low volume was given as the reason for not harvesting by 8 percent of the nonharvesting owners holding an average of 11 acres. Eleven percent of this land is held by owners who plan to harvest within the next 10 years. These owners hold an average of 178 acres.

Lack of a market or low prices were reasons given by landowners holding 4 percent of the nonharvester acreage. Eighty-five percent of this land is held by owners who indicated they will harvest in the future, perphaps when prices or market conditions improve.

Distrust of loggers, opposition to timber harvesting, or that harvesting would destroy hunting values were reasons given by 10 percent of the landowners for not harvesting. It is interesting that 75 percent of Pennsylvania's hunting and fishing clubs have never harvested timber because they believe hunting values would be destroyed. Clubs holding two-thirds of the unharvested club acreage have indicated that they may harvest sometime in the future. Most clubs that expressed a desire to harvest within the next 10 years hold considerably larger acreages.

Poor timber quality, land tied up in estate, or plans to sell the land were among the reasons given by other owners for not harvesting timber.

Looking at future intentions of forest-land owners we see that many of these reasons do not preclude future harvesting. As the cost of living rises, many landowners may look to harvesting as an additional income source. Similarly, with the increasing economic scarcity of fossil fuels, many landowners are looking to their woodlots as a source of fuelwood. As we have seen throughout our analysis, landowners holding small parcels generally are not interested in harvesting timber. However, firewood harvesting may change this attitude for many. This change in attitude will have a significant impact on Pennsylvania's forests; whether it would be favorable or not would depend on the harvesting methods used.

As landowner interest in cutting timber develops, sound forestry advice and good logging practices must be applied. We have seen that timber production is not a major goal for most landowners; they will easily become disenchanted if they are not satisfied with the results of harvesting.

HOW MUCH TIMBER IS AVAILABLE

It is difficult to estimate how much of the timber on privately owned forest land is or will be available for harvesting. This will be influenced by how one defines availability and by assumptions used to develop the estimate. Changing industrial, market, and social conditions limit the time for which the estimate is useful.

To aid in estimating future timber availability, we asked the sampled owners when they plan to harvest timber and what percent of their woodland they believed they would never harvest timber from. To form the basis of our estimate we must assume that those owners indicating that they plan to harvest timber during the next 10 years will do so. To obtain a better grasp of the situation these owners were divided into three groups: forest industry, nonindustrial private forest ownerships (NIPF's) under 500 acres, and NIPF's over 500 acres.

There are an estimated 700 forest industry landowners holding 964,100 acres of woodland in Pennsylvania. These owners indicate that 96 percent or 930,100 acres are available for timber harvesting. Current average annual growth for Pennsylvania's forest land is estimated to be 34.85 ft^3 per acre per year. (Considine and Powell 1980). Assuming that this growth is available for harvesting, 32,414,000 ft^3 of wood will be available for timber products each year from forest industry lands.

Almost half of the NIPF's holding more than 500 acres of commercial forest land each plan to harvest timber within the next 10 years. These owners hold 1,192,900 acres of woodland and indicate that 90 percent or 1,070,900 acres are available for timber harvesting at some future date, not necessarily during the next 10 years. Again, assuming that these owners will, on the average, harvest annual growth from their woodland, 37,320,900 ft^3 of wood will be available for timber products each year.

We estimate that an additional 38,000 NIPF's holding less than 500 acres each plan to harvest timber during the next 10 years. These owners indicate that 1,380,300 acres or 91 percent of their woodland is available for timber harvesting. This type of owner has harvested an average of 425.5 ft^3 per acre from their woodland in the past. Assuming this volume will be harvested from their available acreage during the next 10 years, 58,731,800 ft^3 per year will be harvested by these owners.

In total, 128,466,700 ft^3 of timber should

be made available each year by private owners that plan to harvest timber during the next 10 years. In 1976, forest industries used 166,054,000 ft^3 of timber from Pennsylvania's forests (Bones and Sherwood 1979). Slight increases are expected during the next few years. Adding the volume that will be made available from public forest land, it would seem that there will be an adequate supply of timber for Pennsylvania's forest industry. This view is further strengthened by the estimated 167,600 owners holding 5,415,400 acres of commercial forest land that indicate they may harvest sometime in the future.

FOREST MANAGEMENT ON PRIVATE LANDS

Harvesting practices

Forty-four percent of the landowners who harvested timber chose the area or trees to be harvested. (Table 38). These owners control 2,267,600 acres, 35 percent of the privately owned forest land held by harvesters. An additional 6 percent of the harvesters were involved with a buyer or forester in selecting the timber for harvest. Foresters were involved in only 4 percent of the cases; however, these ownerships include 24 percent of the acreage held by harvesters. Average holdings of landowners who selected the timber themselves was 42 acres, in combination with a forester, 151 acres, and by a forester alone, 341 acres. It is not surprising that foresters would be involved in harvesting larger parcels, particularly since these data include the holdings of large forest industries that employ foresters.

Twenty-six percent of the harvesters allowed the buyer to select the timber and another 5 percent allowed the buyer to participate in the decision. Together, these owners hold 27 percent of the land held by harvesters in Pennsylvania and in general hold smaller than average-size harvested tracts. Where the buyer is involved in selecting the timber to cut, an inherent conflict of interest may arise between the buyer's desire for merchantable timber and the landowner's objectives. In some cases their goals may be the same--maximum profit today. But in many cases landowners have not realized their expectations simply because the harvest was planned by someone with different goals. Similar problems can result with respect to the professional forester who, in his desire to do a good job silviculturally, may fail to meet the landowner's objectives. However, many foresters do understand the landowner's goals and will help him attain them.

Diameter-limit cutting, where only trees above a certain diameter are removed, was the most common method of selection used. This method was used by owners of over 2 million acres, one-third of the land held by harvesters. This method is most frequently used when the buyer is involved in the timber selection. It is easy to administer and allows the landowner some control over what will be cut.

Selection, where only preselected marked trees are removed, was used by harvesters owning almost 2 million acres. This method allows greater flexibility but requires more effort to administer. It was most commonly used when landowners or foresters selected the timber to be harvested.

Clearcutting was used by 10 percent of the harvesting landowners as a cutting method; another 3 percent removed trees as part of a land clearing operation.

Twenty-seven percent of the landowners did not know the harvesting method used or did not answer this question. The remaining owners used a combination of methods or other selection procedures.

PRODUCTS HARVESTED

As expected, the product most frequently harvested was sawlogs. Owners holding 78 percent of the land held by harvesters cut sawlogs (Tables 39-40). Pulpwood was cut by owners holding one-third of the land owned by harvesters. A majority of this land is located in the Allegheny, North Central and South Central units. These two major products were primarily responsible for Pennsylvania's increasing timber harvest (Bones and Sherwood 1979).

It is interesting that one-third of the own-

ers, holding one-half of the acreage held by harvesters, cut more than one product from their woodland. Products harvested included veneer logs, posts, pilings, mine timbers, turnery bolts, and Christmas trees.

FORESTRY ASSISTANCE

When asked whom they would contact for forestry assistance, half of the owners indicated they did not know and another 25 percent did not respond to the question. Together, these owners hold 63 percent of the privately owned forest land (Table 41). Thus further supports the view that a great majority of the landowners in Pennsylvania are simply not interested in actively managing their woodland.

Fourteen percent of the landowners would contact the Pennsylvania Bureau of Forestry, Department of Environmental Resources, for forestry assistance. The remaining landowners would contact various other offices or individuals for forestry advice.

An estimated 28,000 owners, 6 percent of all landowners, indicated that they have received some forestry assistance (Table 42). These owners hold 24 percent of Pennsylvania's commercial forest land. General forest management assistance was received by 9,400 owners holding 1.1 million acres. Other owners received assistance with timber marking, timber stand improvement, planting, timber evaluation, surveying, and other forestry services. It is important to note that these data include services received by forest industries from their own foresters.

RECREATION

Slightly more than half of the private landowners, holding 66 percent of the forest land, permit some form of recreational use of their land by the public (Tables 43-44). Hunting is the use most frequently permitted. Forty-seven percent of the landowners holding 7.3 million acres permit the public to hunt on their land. Hiking is permitted by 20 percent of the landowners holding 41 percent of the forest land. Picnicking, camping, fishing, and snowmobiling were among other uses permitted by many landowners. Owners have been generally apprehensive in permitting picnicking or camping due to the possible site degradation that often accompanies these activities.

Thirty-four percent of the landowners do not permit public use on their 3.2 million acres. However, 4.2 million acres are posted to control hunting or trespass. This indicates that some land is open to some public use even though it is posted. Many landowners will permit public use, if asked, even though their land is posted.

Why do landowners post their land? Thirty-nine percent of the owners that posted did so to control hunting (Table 45). In general, these owners hold smaller than average-size parcels. Other owners posted to prevent abuse of their property, for safety reasons, to protect against liability, or to control public access. Landowners posting to protect themselves from liability own considerably larger acreages than owners posting for other reasons.

LANDOWNER INTERESTS

To understand more about owner interest and motivation, we asked owners to list the conservation-oriented organizations in which they are active, and the conservation oriented publications they receive (Tables 46-47). Answers to these questions will also help identify a medium of communication to forestland owners. As shown earlier, most landowners do not even know which agency they would contact for forestry assistance. Many programs to aid landowners are not well accepted simply because owners are unaware of a program's existence.

We estimate that 25 percent of the owners holding one-third of the individually owned forest land are members of farm- or conservation-related organizations. More landowners (8 percent) are members of the National Wildlife Federation than of any other organization.

An estimated 53 percent of the individual landowners holding two-thirds of the individually owned forest land subscribe to a farm

or conservation related publication. Highest in circulation was Pennsylvania Game News, which was received by 25 percent of the individual landowners, holding one-third of the forest land. Next was Pennsylvania Farmer, received by 19 percent of the landowners, followed by Field and Stream with 10 percent. However, these landowners hold only 4 and 5 percent, respectively, of the individually owned forest land.

CONSERVATION QUIZ

To gain insight into woodland owners' knowledge of conservation and forestry, we asked our respondents to indicate whether each of the 10 statements listed below was true or false. The responses considered correct are those that a professional conservationist would give. Owners were encouraged to check "don't know" rather than guess. Additional information, including numbers of owners and acres owned by statement and response is found in Table 48.

Statement

1. Conservation means that natural resources should be used wisely.
2. Once a forest is cut it will not grow back unless planted.
3. Sustained yield is an important forestry objective.
4. Clearcutting is always bad forestry.
5. All forest land in the United States is managed.
6. Selective logging is always good forestry.
7. Commercial forest land is forest land that is owned by wood-using industries.
8. An ecosystem is any complex of living organisms together with their environment.
9. A virgin forest is any forest of old or large trees.
10. Stumpage price is the price paid for standing timber.

Responses to the first statement indicate that most landowners have at least a fundamental understanding of conservation. This statement had the highest correct response rate of all 10 questions.

At least 26 percent of the owners do not realize that a forest will grow back naturally after harvesting. Landowners are also quite confused over whether or not clearcutting is "bad" forestry. Only 34 percent of the individual landowners answered this statement correctly. From the forester's point of view, clearcutting is not always "bad" forestry anymore than selective logging is always "good" forestry. Only 9 percent of the landowners would answer statement number 6 correctly, realizing that selective logging is not always "good" forestry.

Twenty-one percent of the landowners realize that commercial forest land does not mean only land that is owned by wood-using industries. Commercial forest land by our definition is forest land that is capable of producing crops of industrial wood (more than 20 ft^3/acre/year) and is not withdrawn from timber production.

Few owners answered the question on stumpage price incorrectly, however, 40 percent did not know. This term is used widely by timber buyers and loggers.

Statement number 8 was designed so that only persons with a detailed knowledge of conservation would be expected to give the correct response. Only 2 percent of the owners responded incorrectly and 51 percent indicated that they did not know. This supports the view that most owners did not guess at answers and made a sincere effort when given the quiz.

This quiz indicates that many landowners do not understand certain forestry concepts and terms. As expected, owners of larger tracts were more likely to give correct responses than owners of small tracts.

CONCLUSION

Nonindustrial private forest-land owners usually hold land for reasons other than timber production. Land value increase accrues to all landowners but for most it is not of primary importance. The vast majority of these landowners are not wealthy and for most, forest land represents a significant portion of their assets; yet they continue to hold the land, receiving little monetary income from it. This indicates that they place a high value on nonmonetary forest benefits. However, more than 9 million acres of woodland are held by owners who indicate that they may harvest sometime. The supply of timber that we estimate will be made available should be adequate in filling the needs of Pennsylvania's forest industries in the near future. Increased harvesting by owners using the wood for their own use, particularly fuelwood, may impinge upon the supply available to the forest industries. However, much more timber can be produced through increased forest management.

As living costs rise and fossil fuel supplies dwindle, more landowners will look to their woodland as a source of income and fuelwood. Landowners will need to be made aware of the options and the spectrum of benefits that forestry has to offer.

LITERATURE CITED

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APPENDIX

Study method

The sampling scheme used in this study was derived from the sampling design used in the forest survey by the Northeastern Station. Resources Evaluation field crews attempted to obtain the correct name and mailing address of the owner of each of the 1,697 privately owned forested field plots in the state. These plots are uniformly distributed within each survey unit. The field crews obtained usable addresses of owners for more than 90 percent of the field plots. In addition, a list of municipal water authorities and private water utilities containing 189 addresses was obtained. Of these, 38 were determined to be private owners of commercial forest land. A total of 1,539 questionnaires were sent to owners of commercial forest land in Pennsylvania, 1,161 were returned with usable information.

The questionnaire was developed from several earlier ownership studies and it has been revised as the study has progressed through the Northeastern States. The mailing for Pennsylvania was conducted in two parts. Questionnaires for the eastern half of the state were mailed in January 1977, and those for the western half in November 1977. The mailing consisted of the questionnaire and a cover letter that explained the purpose of the survey. 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 returned theirs. One week later, nonrespondents were mailed a second copy of the questionnaire and the cover letter plus a second letter urging their cooperation. Approximately 1 month later, 326 owners had responded in the eastern half of the state and 492 in the western half of the state. Then a 100-percent field canvass of nonrespondents was undertaken by personnel with the Bureau of Forestry, Pennsylvania Department of Environmental Resources. This resulted in an additional 343 usable questionnaires. The 1,161 questionnaires represent 1,271 of the privately owned forested field plots or 75 percent.

The probability that a forest-land owner will be sampled depends on the rate of sampling and the acreage of commercial forest land he owns. Each unit in Pennsylvania had a different rate of sampling. There were also different rates of success in persuading nonrespondents to reply. Both the survey rate of sampling and the success rate of the follow-up affect the probability that an owner will be included in the final tabulation.

The total acreage of commercial forest land in private ownerships was obtained from the forest survey. To calculate the area represented by each plot, the total area of privately owned commercial forest land in each unit was divided into two strata based on photo interpretation of the plot. The area in each strata was divided by the number of field plots represented by the valid questionnaires. The private water companies represented the acreage of forest land they actually owned because these companies were from a complete list and did not have to have a forested field plot to be included in our survey.

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 woodland. To estimate the total number of persons who own commercial forest land in Pennsylvania, it was necessary to weight the number of owners obtained in the samples. This procedure can be stated as:

$$N = \frac{CFL_p}{N_r} \sum \frac{1}{A_1}$$

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

CFL_p = the acres of commercial forest land in the sampling strata.

N_r = number of respondents in the sampling strata.

A_1 = acres owned by the individual respondent.

The ΣN then equals the estimated number of private owners in the state. This is an unbiased estimate of the total number of persons who own commercial forest land in Pennsylvania.

The data were edited, processed, and compiled by computer, using FINSYS-2, a generalized computer system (Barnard 1978).

Because this study encompasses eight sampling units with two sampling strata per unit, and the private water companies are scattered throughout the state, data have been aggregated to the Resources Evaluation units. The following tabulation shows the pertinent data for each unit.

Unit	*No. of usable questionnaires*	*No. of survey plots*	*Average acreage per plot*
Western	193	195	12,438
Allegheny	157	240	7,992
North Central	182	197	10,598
Southwestern	140	139	9,563
Northeastern	134	138	8,971
Pocono	138	150	9,317
Southeastern	110	107	8,030
South Central	107	115	10,410
All units	1,161	1,281	9,721

Sampling errors

Sampling errors were calculated for the estimated total number of forest-land owners in each unit and for the combined total. The sampling error for the number of acres of commercial forest land in private ownership was calculated as part of the forest survey. The user of these data is cautioned that, as the size of our estimate decreases in relation to the total unit estimate, the sampling error, expressed as a percent of the estimate, increases drastically.

The inclusion of small woodland parcels (fewer than 10 acres) in the study population substantially increases the sampling error for the estimated number of owners.

Unit	Sampling error		
	Private commercial forest land	Owners of private commercial forest land	Owners holding 10 or more acres
	Percent		
Western	±2.5	±17.6	± 7.5
Allegheny	±1.3	±16.1	±13.2
North Central	±1.3	±18.8	±11.3
Southwestern	±2.2	±29.3	±11.6
Northeastern	±2.4	±26.4	± 8.4
Pocono	±1.2	±30.2	±13.7
Southeastern	±3.5	±13.0	±11.6
South Central	±1.4	±24.4	±12.2
Total	±0.7	± 7.8	± 4.1

NE FOREST EXPERIMENT STATION
FOREST SERVICE, U.S. DEPARTMENT OF AGRICULTURE

OMB 40-R-3941

NORTHEASTERN WOODLAND OWNERSHIP STUDY

State _____

County_____

Plot _____

Please complete the following questions to the best of your knowledge. Where actual data are not available please use your best estimate. Please be assured your answers will be held strictly confidential. If you do not now own woodland, please answer questions 1 and 2 and return the questionnaire.

1. How much land do you now own? (Include woodlands, pasture, cropland, etc., but exclude individual house lots.) Acres_____

2. Of all of the land you own how much is woodland? Acres_____ or percent_____

3. Is all of the woodland you own in one state?

   Yes _____ What state?_____

   No _____ My woodlands are in more than one state as follows:

   _____ acres in _____ (state)

   _____ acres in _____ (state)

   _____ acres in _____ (state

   _____ acres in _____ (state)

4. How many individual tracts or parcels of woodland do you own? Number_____

5. In what year did you first acquire woodland? Year _____

6. How did you acquire the major portion of the woodland you now own?

Purchase	1.	_____
Inheritance	2.	_____
Other	3.	_____

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

		Check one
Individual (include husband and wife)	1.	_____
Joint ownership	2.	_____
Undivided estate	3.	_____
Partnership	4.	_____
Corporation	5.	_____
Club or association	6.	_____
Other	7.	_____

8. If the ownership is a partnership, corporation, club, or association, what is the nature of the business or organization? Or, if woodland is part of an active farm, write in the word "farm" in the space below.

_____

Please indicate the title of the person completing this questionnaire.

---

9. What is the approximate road mileage from your home to your nearest and furthest tract of woodland? (For businesses or organizations consider "home" to mean place of business, or location of organization.)

Miles to the nearest tract (enter zero if you live on the tract). _____

Miles to the furthest tract. _____

10. How many times have you or your representative visited your nearest and furthest tract of woodland in the last 12 months?

Number of visits to the nearest tract _____

Number of visits to the furthest tract _____

11. Which statement most accurately describes your woodland?

Check one

a. Most of the trees are sugar (hard) maple, beech, and yellow birch. _____

b. Most of the trees are red (soft) maple, elm, and ash. _____

c. Most of the trees are oaks, hickories, gums, and yellow-poplar. _____

d. Most of the trees are pines. _____

e. Most of the trees are softwoods other than pines. _____

f. None of the above apply. Please describe your woodland briefly: _____

_____

g. I do not know what kinds of trees are on my land. _____

12. Which statement most accurately describes average size of the trees in your woodland?

Check one

a. The average tree is 5 inches in diameter or smaller. _____

b. The average tree is between 5 and 12 inches in diameter. _____

c. The average tree is 12 inches in diameter or larger. _____

d. I don't know how big the trees are. _____

13. Have you ever harvested timber or trees from your land?

Yes 1._____ No. 2._____

NOTE: IF YOU HAVE NEVER HARVESTED TIMBER OR TREES FROM YOUR WOODLAND SKIP TO QUESTION 23.

14. In what year did the most recent timber harvest take place? _____

15. What percent of your woodland was involved in the most recent timber sale? _____

16. What percent, if any, of your woodland do you feel you would never harvest timber from? _____

17. What products were harvested? (Check as many as apply.)

		Check			Check
Sawlogs	1.	_____	Mine timbers	6.	_____
Veneer logs or bolts	2.	_____	Christmas trees	7.	_____
Pulpwood	3.	_____	Other (please specify)_____	8.	_____
Turnery bolts	4.	_____	Don't know what products were harvested	9.	_____
Posts, poles, or piling	5.	_____			

18. Please indicate amounts of products harvested.

Product	Amount	Unit of measure
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

19. How were your trees selected for harvesting? (Please check only the method that accounted for the greatest volume, if more than one method was used.)

	Check one
Selection (only preselected market trees were removed).	1. _____
Diameter limit (only trees over a minimum diameter were removed). Please indicate minimum diameter _____	2. _____
Clearcutting (most or all of the trees on a given area were removed).	3. _____
Land clearing (trees were harvested incidental to clearing the land for a use other than woodland).	4. _____
Other (please specify) _____	5. _____
Don't know method used.	6. _____

20. Who selected the area or trees to be harvested?

	Check one
1. Landowner	_____
2. Forester	_____
3. Friend or neighbor	_____
4. Timber buyer or logger	_____
5. Combination of _____ and _____	_____

21. If you did not have the assistance of a forester in the harvesting of your timber, do you now wish you had?

	Check
Yes	_____
If yes, why _____	_____
No	_____
No feeling either way	_____

22. Why did you harvest timber at the time that you did? (Check only the one reason you consider most important.)

		Check one
Felt timber was mature	1.	_____
Offered a good price	2.	_____
Land clearing	3.	_____
Needed money	4.	_____
Needed timber for own use	5.	_____
Timber harvest for company use (industry only)	6.	_____
Other (please specify) _____	7.	_____

23. If you have never harvested timber or trees from your land, why not? (Please check only the reason you consider most important).

		Check one
Woodland immature - timber too small	1.	_____
No market for timber	2.	_____
Price offered or prevailing market price too low	3.	_____
Value of land for hunting would be destroyed	4.	_____
Selling or plan to sell the land	5.	_____
Scenery would be destroyed	6.	_____
Land tied up in estate	7.	_____
Distrust of loggers	8.	_____
Opposed to timber harvesting	9.	_____
Poor quality timber	10.	_____
Not enough volume	11.	_____
Logging would create a fire hazard	12.	_____
Insufficient area to harvest	13.	_____
Other (please specify) _____	14.	_____

24. Do you plan to harvest timber from your woodlands in:

		Check one
Next 5 years	1.	_____
5 to 10 years	2.	_____
Possibly at some future date	3.	_____
Never plan to harvest	4.	_____

25. Have you ever sought the assistance of a forester for advice or help in managing your woodland?

Yes _____ Please indicate the nature of assistance. _____

_____

No _____

26. What office, agency, or individual would you contact for forestry assistance? (If you don't know, please write in "don't know.")

_____

27. Why do you own woodland? (Please rank in order of importance those items that are applicable, with number 1 the most important.)

	Rank
Land investment (hope to sell all or part of my woodland at a profit).	____
Recreation (hunting, camping, fishing, etc.).	____
Timber production (growing timber or other forest products for sale).	____
Farm or domestic use (source of forest products for own use, i.e., firewood, fence posts, etc.).	____
Aesthetic enjoyment (the desire to have woodland and "green space" around my home).	____
Part of the farm (the woodland is part of the farm but serves no useful function in the farm operation).	____
Part of my residence.	____
Other (please specify) _____	____

28. Which of the following do you feel were the most important benefits you derived from your woodland in the last 5 years? (Please rank in order of importance those items that are applicable, with number 1 the most important.)

	Rank
Increase in land value (investment).	____
Recreation (hunting, fishing, camping, etc.).	____
Income from the sale of timber.	____
Aesthetics (just enjoy woodland, wildlife, and the general satisfaction of owning "green space").	____
Farm and domestic use.	____
Other (please specify) _____	____

29. Which of the following do you feel will be the most important benefits you expect to derive from your woodland in the next 5 years? (Please rank in order of importance those items that are applicable, with number 1 the most important.)

	Rank
Increase in land value (investment).	_____
Recreation (hunting, camping, etc.).	_____
Income from sale of timber.	_____
Aesthetics (just enjoy woodland, wildlife, and the general satisfaction of owning "green space").	_____
Farm or domestic use.	_____
Other (please specify) _____	_____

30. Is the general public, other than your family and immediate circle of friends, permitted to use your woodland for any of the following?

		Check
Public use not permitted	1.	_____
Public use permitted:		
Hiking	2.	_____
Picnicking	3.	_____
Camping	4.	_____
Fishing (check only if fishing is available)	5.	_____
Hunting	6.	_____
Snowmobiling	7.	_____
Other (please specify)	8.	_____

31. Is you land posted?

No _____, go to next question.

Yes_____, why is it posted? _____

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

Yes _____ No _____

33. Are you an active member of any of the following organizations? (Please check those you are a member of.)

		Check
American Forestry Association	1.	_____
Ohio Forestry Association	2.	_____
Pennsylvania Forestry Association	3.	_____
Isaak Walton League	4.	_____
Audubon Society	5.	_____
Natural History Society	6.	_____
National Wildlife Federation	7.	_____
A Sportsman's Club	8.	_____
A Garden Club	9.	_____
National Farmer's Organization	10.	_____
The Grange	11.	_____
The American Tree Farm Program	12.	_____
The Sierra Club	13.	_____
Any other organizations similar to those listed above (Please specify)_____	14.	_____
No, I don't hold membership in any of the above.	15.	_____

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

		Check
Tree Farm News	1.	_____
American Forests	2.	_____
National Wildlife	3.	_____
Forest Farmer	4.	_____
Ohio Woodlands	5.	_____
Pennsylvania Forests	6.	_____
Pennsylvania Game News	7.	_____
Audubon Magazine	8.	_____
National Parks and Recreation	9.	_____
Field and Stream	10.	_____
Sports Afield	11.	_____
Kentucky Farmer	12.	_____
Agway Cooperator	13.	_____
Ranger Rick Nature Magazine	14.	_____
Our Heritage	15.	_____
Forests and People	16.	_____
Ohio Farmer	17.	_____
Maryland Conservation	18.	_____
West Virginia Conservation	19.	_____
Pennsylvania Farmer	20.	_____
Any other magazine similar to those listed above (Please specify) _____	21.	_____
No, I don't subscribe to any of the above magazines.	22.	_____

35. Please indicate whether each of the following statements is true or false. If you feel you don't know, don't guess, please check "Don't Know" column.

	True	False	Don't Know
a. Conservation means that natural resources should be used wisely.	____	____	____
b. Once a forest is cut it will not grow back unless planted.	____	____	____
c. Sustained yield is an important forestry objective.	____	____	____
d. Clearcutting is always bad forestry.	____	____	____
e. All forest land in the United States is managed.	____	____	____
f. Selective logging is always good forestry.	____	____	____
g. Commercial forest land is forest land that is owned by wood-using industries.	____	____	____
h. An ecosystem is any complex of living organisms together with their environment.	____	____	____
i. A virgin forest is any forest of old or large trees.	____	____	____
j. Stumpage price is the price paid for standing timber.	____	____	____

The following questions are asked to classify responses on the basis of information about the owner personally. Again, we would remind you that the answers to these questions, and to any other questions on this questionnaire are strictly confidential. All answers will be compiled in such a manner that it will be impossible to identify any individual reply.

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.

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

		Check one
In a city with a population of 100,000 or more	1.	_____
In a city with a population of 10,000 to 99,999	2.	_____
In a town or city with a population of less than 10,000	3.	_____
In a rural area	4.	_____
On a farm	5.	_____

37. What is the sex of the owner?

Male _____ Female _____

38. What is the age of the owner?

		Check one
Under 25	1.	_____
25-44	2.	_____
45-64	3.	_____
65 and over	4.	_____

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

		Check one
Grades 1- 8	1.	_____
Grades 9-12	2.	_____
Has some schooling beyond high school (business technical school, or some college)	3.	_____
Has a bachelor's degree or equivalent	4.	_____
Has some graduate work	5.	_____
Holds a master's degree	6.	_____
Holds a doctoral degree	7.	_____

40. What is the primary occupation of the owner? _____

41. In which category would the owner's personal gross income from all sources fall?

		Check one
Less than $10,000	1.	_____
$10,000 to $14,999	2.	_____
$15,000 to $19,999	3.	_____
$20,000 to $24,999	4.	_____
$25,000 to $29,999	5.	_____
$30,000 or more	6.	_____

42. Comments?

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 Resources Evaluation convention, softwoods less than 9.0 inches in dbh and hardwoods less than 11.0 inches in dbh 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 and all that is not merchantable is left standing.

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

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

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

Forest land. Land that is at least 16.7 percent stocked (contains at least 7.5 ft^2 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^3, of growing-stock trees that are 5.0 inches in dbh 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.

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

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.

Sawlog. Any log from which lumber is to be sawed.

Sawtimber trees. Live trees of commercial species: (a) that are of the following minimum diameter at breast height: softwoods, 9.0 inches and hardwoods 11.0 inches, 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.

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.

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

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43.— Estimated number of private owners and acres of commercial forest land owned, by type of public use permitted, Pennsylvania, 1978.

44.— Estimated number of private owners and acres of commercial forest land owned, by availability for public recreational use and geographic unit, Pennsylvania, 1978.

45.— Estimated number of private owners and acres of commercial forest land owned, by reason for posting and geographic unit, Pennsylvania, 1978.

46.— Estimated number of individual owners and acres of commercial forest land owned, by conservation-related organization membership, Pennsylvania, 1978.

47.— Estimated number of individual owners and acres of commercial forest land owned, by conservation-oriented publications they receive, Pennsylvania, 1978.

48.— Estimated number of individual owners and acres of commercial forest land owned, by statement and response to statement in conservation quiz, Pennsylvania, 1978.

Table 1.—Estimated number of private owners and acres of commercial forest land owned, by size class and geographic unit, Pennsylvania, 1978

Size class (acres)	Western		Allegheny		North Central		Southwestern		Northeastern	
	Number	*Percent*	*Number*	*Percent*	*Number*	*Percent*	*Number*	*Percent*	*Number*	*Percent*
					OWNERS					
1-9	73,000	60	15,900	45	33,600	62	33,900	68	34,400	67
10-19	12,600	10	7,800	22	2,800	5	2,600	5	5,300	10
20-49	24,800	20	5,600	16	9,300	17	6,500	13	5,000	10
50-99	7,600	6	3,400	10	5,100	9	4,100	8	4,000	8
100-199	3,400	3	1,300	4	2,500	5	2,200	4	2,200	4
200-499	700	1	900	3	900	2	700	2	600	1
500-999	100	W	100	W	200	W	100	W	100	W
1,000+	W	W	100	W	200	W	100	W	W	W
Total	122,200	100	35,100	100	54,600	100	50,200	100	51,600	100
					ACRES OWNED					
1-9	241,400	10	81,600	4	133,800	6	76,000	6	100,100	8
10-19	161,400	7	93,800	5	32,400	2	28,600	2	69,700	6
20-49	749,300	31	175,900	9	289,000	14	199,800	15	160,600	13
50-99	497,000	21	229,100	12	334,300	16	275,800	21	269,800	22
100-199	399,500	16	175,400	9	323,500	15	294,900	22	263,800	21
200-499	178,900	7	215,000	11	274,600	13	190,600	14	200,800	16
500-999	51,800	2	87,700	5	119,200	6	57,100	4	55,100	4
1,000+	146,200	6	859,600	45	581,100	28	206,500	16	118,100	10
Total	2,425,500	100	1,918,100	100	2,087,900	100	1,329,300	100	1,238,000	100

(continued)

Table 1.—continued

Size class (acres)	Pocono		Southeastern		South Central		State total	
	Number	*Percent*	*Number*	*Percent*	*Number*	*Percent*	*Number*	*Percent*
				OWNERS				
1-9	20,700	54	60,700	76	37,700	65	309,900	63
10-19	5,200	14	9,000	11	8,900	16	54,200	11
20-49	6,500	17	8,100	10	5,400	9	71,200	15
50-99	3,000	8	2,000	2	3,600	6	32,800	7
100-199	1,700	4	500	1	1,600	3	15,400	3
200-499	600	2	100	W	700	1	5,200	1
500-999	200	1	W	W	W	W	800	W
1,000+	100	W	W	W	100	W	600	W
Total	38,000	100	80,400	100	58,000	100	490,100	100
				ACRES OWNED				
1-9	53,900	4	230,000	27	111,200	9	1,028,000	8
10-19	63,200	5	120,900	14	115,500	10	685,500	6
20-49	207,300	15	233,900	27	157,600	13	2,173,400	17
50-99	207,200	15	112,900	13	236,900	20	2,163,000	17
100-199	228,200	16	72,700	9	210,100	18	1,968,100	16
200-499	187,400	13	16,500	2	184,800	15	1,448,600	12
500-999	124,900	9	2,000	W	31,500	3	529,300	4
1,000+	325,500	23	70,300	8	149,600	12	2,456,900	20
Total	1,397,600	100	859,200	100	1,197,200	100	12,452,800	100

(W) Less than 0.5 percent or fewer than 50 owners.

Table 2.—Number of private owners and acres of commercial forest land owned, and number of owners who have harvested timber and acres owned, by ownership class, Pennsylvania, 1978

Ownership class	All owners		Owners who have harvested timber	
	Number	Acres owned	Number	Acres owned
Forest industry[a]	700	964,100	600	946,500
Farmer[b]	158,400	3,512,700	63,800	2,041,100
Miscellaneous:				
Individual[c]	279,600	5,190,300	46,600	2,034,300
Corporate	8,400	1,446,700	1,200	853,900
Other	43,000	1,339,000	10,300	669,200
Total private	490,100	12,452,800	122,500	6,545,000

[a]Includes unincorporated forest industry.
[b]Includes lands owned by part-time farmers and corporations engaged in agriculture.
[c]Includes joint ownerships.

Table 3.—Estimated number of private owners and acres of commercial forest land owned, by form of ownership, percent of harvesters, percent of acres owned by harvesters, and geographic unit, Pennsylvania, 1978

Form of ownership	All private owners		Acres owned		Harvesters	Acres owned by harvesters
	Number	*Percent*	*Number*	*Percent*	*Percent*	*Percent*
			WESTERN			
Individual[a]	112,900	92	1,951,000	80	22	34
Corporation	1,700	2	231,600	10	W	4
Partnership	1,400	1	76,700	3	W	1
Other[b]	6,200	5	166,200	7	1	3
Total	122,200	100	2,425,500	100	23	42
			ALLEGHENY			
Individual	30,400	87	876,500	46	24	24
Corporation	500	1	783,800	41	1	39
Partnership	200	1	76,600	4	W	3
Other	4,000	11	181,200	9	3	6
Total	35,100	100	1,918,100	100	28	72
			NORTH CENTRAL			
Individual	47,200	86	1,350,200	64	24	33
Corporation	2,600	5	330,100	16	W	10
Partnership	1,100	2	118,600	6	W	3
Other	3,700	7	289,000	14	1	11
Total	54,600	100	2,087,900	100	25	57

(continued)

Table 3.—continued

Form of ownership	All private owners		Acres owned		Harvesters	Acres owned by harvesters
	Number	*Percent*	*Number*	*Percent*	*Percent*	*Percent*
			SOUTHWESTERN			
Individual	47,700	95	1,027,200	77	21	37
Corporation	400	1	159,300	12	W	9
Partnership	1,600	3	95,200	7	W	2
Other	500	1	47,600	4	W	2
Total	50,200	100	1,329,300	100	21	50
			NORTHEASTERN			
Individual	48,500	94	982,300	79	23	40
Corporation	1,200	2	128,300	10	W	6
Partnership	900	2	54,600	5	2	4
Other	1,000	2	72,800	6	W	2
Total	51,600	100	1,238,000	100	25	52
			POCONO			
Individual	32,100	84	769,900	55	19	22
Corporation	1,800	5	420,400	30	1	14
Partnership	3,500	9	72,600	5	1	3
Other	600	2	134,700	10	W	3
Total	38,000	100	1,397,600	100	21	42
			SOUTHEASTERN			
Individual	65,100	81	643,200	75	18	26
Corporation	500	1	80,900	9	W	5
Partnership	10,100	12	38,400	5	W	2
Other	4,700	6	96,700	11	4	7
Total	80,400	100	859,200	100	22	40
			SOUTH CENTRAL			
Individual	38,700	67	957,700	80	29	48
Corporation	300	W	71,500	6	W	3
Partnership	W	W	10,500	1	W	1
Other	19,000	33	157,500	13	8	8
Total	58,000	100	1,197,200	100	37	60
			TOTAL			
Individual	422,600	86	8,558,000	69	22	33
Corporation	9,000	2	2,205,900	18	W	12
Partnership	18,800	4	543,200	4	1	3
Other	39,700	8	1,145,700	9	2	5
Total	490,100	100	12,452,800	100	25	53

[a] Includes joint ownerships.
[b] Includes undivided estates, clubs, associations, etc.
(W) Less than 0.5 percent or fewer than 50 owners.

Table 4.—Estimated number of private owners and acres of commercial forest land owned, by size class and form of ownership, Pennsylvania, 1978

Size class (acres)	Individual[a]		Partnership		Corporation		Club		Other[b]	
	Number	*Percent*	*Number*	*Percent*	*Number*	*Percent*	*Number*	*Percent*	*Number*	*Percent*
					OWNERS					
1-9	269,900	64	12,400	66	2,200	25	23,800	80	1,600	16
10-19	47,300	11	1,700	9	700	8	2,000	7	2,300	22
20-49	61,500	15	2,400	13	1,700	19	2,000	7	3,700	36
50-99	27,400	6	1,200	6	2,000	22	800	3	1,400	14
100-199	12,300	3	600	3	1,200	13	500	2	800	8
200-499	3,500	1	300	1	700	8	400	1	300	3
500-999	500	W	100	1	200	2	W	W	100	1
1,000+	200	W	100	1	300	3	W	W	W	W
Total	422,600	100	18,800	100	9,000	100	29,500	100	10,200	100
					ACRES OWNED					
1-9	905,300	11	32,700	6	10,800	1	71,200	14	8,000	1
10-19	605,600	7	18,600	4	9,100	W	20,900	4	31,300	5
20-49	1,867,200	22	66,600	12	63,600	3	72,600	14	103,400	17
50-99	1,818,700	21	74,100	14	139,400	6	47,400	9	83,400	13
100-199	1,564,200	18	75,700	14	155,300	7	59,300	11	113,600	18
200-499	977,700	11	87,900	16	180,900	8	108,500	21	93,600	15
500-999	304,000	4	50,000	9	115,600	5	19,900	4	39,800	7
1,000+	515,300	6	137,600	25	1,531,200	70	121,400	23	151,400	24
Total	8,558,000	100	543,200	100	2,205,900	100	521,200	100	624,500	100

[a]Includes joint ownerships.
[b]Includes undivided estates, trusts, etc.
(W) Less than 0.5 percent or fewer than 50 owners.

Table 5.—Estimated number of business owners and acres of commercial forest land owned, by incorporated and unincorporated businesses, Pennsylvania, 1978

Nature of business	Incorporated				Unincorporated			
	Number	*Percent*	*Acres*	*Percent*	*Number*	*Percent*	*Acres*	*Percent*
Real estate	1,400	15	286,500	13	100	W	58,400	1
Forest industry	100	1	651,300	30	600	W	312,800	3
Other industry	2,000	22	638,900	29	200	W	46,700	W
Nonindustrial business	1,600	18	129,900	6	1,200	W	59,100	1
Farm	500	6	53,500	2	157,900	33	3,459,100	34
Sport/recreation club	2,500	28	139,200	6	27,900	6	473,600	4
Public utility	W	W	153,800	7	—	—	—	—
Other	900	10	152,800	7	293,200	61	5,837,200	57
Total	9,000	100	2,205,900	100	481,100	100	10,246,900	100

(W) Less than 0.5 percent or fewer than 50 owners.

Table 6.—Estimated number of individual owners and acres of commercial forest land owned, by occupation and geographic unit, Pennsylvania, 1978

Occupation	Western		Allegheny		North Central		Southwestern		Northeastern	
	Number	*Percent*	*Number*	*Percent*	*Number*	*Percent*	*Number*	*Percent*	*Number*	*Percent*
					OWNERS					
Professional	10,300	9	4,200	14	1,300	3	1,300	3	2,300	5
Executive	9,100	8	3,700	12	11,900	25	900	2	600	1
Retired	26,800	24	1,600	5	9,600	21	4,000	9	4,300	9
White collar	600	W	4,900	16	2,900	6	2,900	6	1,600	3
Skilled laborer	21,000	18	2,700	9	9,800	21	4,900	10	1,500	3
Unskilled laborer	1,900	2	3,100	10	2,500	5	6,300	13	16,200	33
Housewife	8,900	9	600	2	1,000	2	600	1	12,300	25
Farmer	25,600	22	3,100	10	3,500	7	2,900	6	5,300	11
Other	900	1	2,300	8	3,400	7	2,400	5	300	1
No answer	7,800	7	4,200	14	1,300	3	21,500	45	4,100	9
Total	112,900	100	30,400	100	47,200	100	47,700	100	48,500	100
					ACRES OWNED					
Professional	263,600	13	85,800	10	140,200	10	66,600	7	54,600	6
Executive	289,200	15	142,200	16	230,800	17	104,700	10	100,000	10
Retired	356,400	18	112,100	13	295,500	22	266,400	26	251,600	26
White collor	38,400	2	114,300	13	64,700	5	66,500	6	69,700	7
Skilled laborer	191,700	10	86,900	10	140,200	10	85,600	8	51,500	5
Unskilled laborer	89,500	4	45,000	5	43,100	3	57,100	6	81,900	8
Housewife	131,100	7	25,200	3	86,300	7	66,500	6	36,400	4
Farmer	383,400	20	118,200	13	140,200	10	142,700	14	254,700	26
Other	38,300	2	36,500	4	47,500	4	19,000	2	9,100	1
No answer	169,400	9	110,300	13	161,700	12	152,100	15	72,800	7
Total	1,951,000	100	876,500	100	1,350,200	100	1,027,200	100	982,300	100

(continued)

Table 6. — continued

Occupation	Pocono		Southeastern		South Central		State total	
	Number	*Percent*	*Number*	*Percent*	*Number*	*Percent*	*Number*	*Percent*
				OWNERS				
Professional	900	3	2,000	3	2,300	6	24,600	6
Executive	1,100	4	6,000	9	2,300	6	35,600	6
Retired	2,300	7	10,600	16	12,900	33	72,100	17
White collar	900	3	7,200	11	3,100	8	24,100	6
Skilled laborer	13,600	42	11,700	18	4,300	11	69,500	16
Unskilled laborer	5,100	16	4,300	7	800	2	40,200	10
Housewife	400	1	900	2	500	1	25,200	6
Farmer	1,300	4	11,200	17	11,000	29	63,900	15
Other	100	W	—	—	—	—	9,400	2
No answer	6,400	20	11,200	17	1,500	4	58,000	14
Total	32,100	100	65,100	100	38,700	100	422,600	100
				ACRES OWNED				
Professional	82,900	11	64,500	10	84,000	9	842,200	10
Executive	114,000	15	102,900	16	84,000	9	1,167,800	14
Retired	155,400	20	104,800	16	258,300	27	1,800,500	21
White collar	52,800	7	24,200	4	63,000	6	493,600	6
Skilled laborer	63,200	8	72,600	11	84,000	9	775,700	9
Unskilled laborer	82,900	11	32,300	5	42,000	4	473,800	5
Housewife	20,700	3	16,100	3	48,200	5	430,500	5
Farmer	94,300	12	137,100	21	210,000	22	1,480,600	17
Other	10,400	1	—	—	—	—	160,800	2
No answer	93,300	12	88,700	14	84,200	9	932,500	11
Total	769,900	100	643,200	100	957,700	100	8,558,000	100

(W) Less than 0.5 percent or fewer than 50 owners.

Table 7.—Estimated number of individual owners and acres of commercial forest land owned, by age class and geographic unit, Pennsylvania, 1978

Age class (years)	Individual owners		Acres owned	
	Number	*Percent*	*Number*	*Percent*
		WESTERN		
Under 25	2,500	2	12,800	1
25-44	22,900	20	332,300	17
45-64	43,900	39	957,000	49
65+	36,500	33	530,600	27
No answer	7,100	6	118,300	6
Total	112,900	100	1,951,000	100
		ALLEGHENY		
Under 25	100	W	9,100	1
25-44	9,500	31	179,900	20
45-64	15,100	50	481,100	55
65+	1,200	4	145,300	17
No answer	4,500	15	61,100	7
Total	30,400	100	876,500	100
		NORTH CENTRAL		
Under 25	6,500	14	21,600	2
25-44	7,600	16	241,600	18
45-64	23,200	49	558,600	41
65+	8,800	19	399,000	29
No answer	1,100	2	129,400	10
Total	47,200	100	1,350,200	100
		SOUTHWESTERN		
Under 25	—	—	—	—
25-44	3,000	6	123,700	12
45-64	19,600	41	409,000	40
65+	3,800	8	323,300	31
No answer	21,300	45	171,200	17
Total	47,700	100	1,027,200	100
		NORTHEASTERN		
Under 25	—	—	—	—
25-44	15,200	31	151,500	15
45-64	24,900	52	567,000	58
65+	5,900	12	209,200	21
No answer	2,500	5	54,600	6
Total	48,500	100	982,300	100
		POCONO		
Under 25	—	—	—	—
25-44	1,800	6	72,500	10
45-64	24,300	76	448,700	58
65+	3,600	11	186,500	24
No answer	2,400	7	62,200	8
Total	32,100	100	769,900	100

(continued)

Table 7. — continued

Age class (years)	Individual owners		Acres owned	
	Number	*Percent*	*Number*	*Percent*
		SOUTHEASTERN		
Under 25	600	1	8,000	1
25-44	16,000	25	153,200	24
45-64	27,700	42	272,300	43
65+	13,900	21	169,300	26
No answer	6,900	11	40,400	6
Total	65,100	100	643,200	100
		SOUTH CENTRAL		
Under 25	—	—	—	—
25-44	9,400	24	189,000	20
45-64	12,800	33	420,100	44
65+	16,200	42	327,600	34
No answer	300	1	21,000	2
Total	38,700	100	957,700	100
		ALL INDIVIDUAL OWNERS		
Under 25	9,700	2	51,500	W
25-44	85,400	20	1,443,700	17
45-64	191,500	46	4,113,800	48
65+	89,900	21	2,290,800	27
No answer	46,100	11	658,200	8
Total	422,600	100	8,558,000	100

(W) Less than 0.5 percent or fewer than 50 owners.

Table 8.—Estimated number of individual owners and acres of commercial forest land owned, by years of formal education, Pennsylvania, 1978

Education level	Individual owners		Acres owned	
	Number	*Percent*	*Number*	*Percent*
0-8 years	100,600	24	1,687,800	20
9-12 years	133,600	32	2,549,600	30
1-4 years of college	104,800	25	2,512,500	29
More than 4 years of college	30,600	7	999,900	12
No answer	53,000	12	808,200	9
Total	422,600	100	8,558,000	100

Table 9.—Estimated number of individual owners and acres of commercial forest land owned, by annual income class and geographic unit Pennsylvania, 1978

Income class	Individual owners		Acres owned	
	Number	*Percent*	*Number*	*Percent*
		WESTERN		
Under $10,000	46,300	41	645,600	33
$10,000-$14,999	34,100	30	255,600	13
$15,000-$19,999	3,100	3	166,100	9
$20,000-$24,999	5,500	5	156,700	8
$25,000-$29,999	1,700	1	38,300	2
$30,000+	12,300	11	429,800	22
No answer	9,900	9	258,900	13
Total	112,900	100	1,951,000	100
		ALLEGHENY		
Under $10,000	5,800	19	175,400	20
$10,000-$14,999	7,700	25	140,600	16
$15,000-$19,999	5,900	20	143,300	16
$20,000-$24,999	300	1	26,300	3
$25,000-$29,000	1,000	3	34,300	4
$30,000+	2,700	9	194,800	22
No answer	7,000	23	161,800	19
Total	30,400	100	876,500	100
		NORTH CENTRAL		
Under $10,000	17,900	38	284,700	21
$10,000-$14,999	6,200	13	226,400	17
$15,000-$19,999	4,700	10	140,200	11
$20,000-$24,999	1,900	4	79,800	6
$25,000-$29,999	2,300	5	43,200	3
$30,000+	9,000	19	273,900	20
No answer	5,200	11	302,000	22
Total	47,200	100	1,350,200	100
		SOUTHWESTERN		
Under $10,000	8,600	18	351,900	34
$10,000-$14,999	2,100	5	114,200	11
$15,000-$19,999	11,500	24	95,000	9
$20,000-$24,999	1,100	2	104,600	10
$25,000-$29,000	400	1	28,500	3
$30,000+	1,100	2	123,700	12
No answer	22,900	48	209,300	21
Total	47,700	100	1,027,200	100
		NORTHEASTERN		
Under $10,000	11,100	23	309,300	31
$10,000-$14,999	4,000	8	78,800	8
$15,000-$19,999	10,300	21	75,700	8
$20,000-$24,999	700	2	54,600	6
$25,000-$29,999	1,400	3	63,700	6
$30,000+	4,900	10	227,400	23
No answer	16,100	33	172,800	18
Total	48,500	100	982,300	100

(continued)

Table 9.—continued

Income class	Individual owners		Acres owned	
	Number	*Percent*	*Number*	*Percent*
		POCONO		
Under $10,000	9,500	30	248,700	32
$10,000-$14,999	3,900	12	95,300	12
$15,000-$19,999	12,200	38	124,400	16
$20,000-$24,999	400	1	20,700	3
$25,000-$29,000	100	W	10,400	1
$30,000+	600	2	103,600	14
No answer	5,400	17	166,800	22
Total	32,100	100	769,900	100
		SOUTHEASTERN		
Under $10,000	8,100	13	88,700	14
$10,000-$14,999	10,300	16	120,900	19
$15,000-$19,999	6,300	10	64,500	10
$20,000-$24,999	200	W	8,100	1
$25,000-$29,999	4,800	7	24,200	4
$30,000+	17,200	26	207,800	32
No answer	18,200	28	129,000	20
Total	65,100	100	643,200	100
		SOUTH CENTRAL		
Under $10,000	19,000	49	369,500	39
$10,000-$14,999	7,100	18	147,100	15
$15,000-$19,999	2,500	6	105,000	11
$20,000-$24,999	3,700	10	73,500	8
$25,000-$29,000	1,100	3	31,500	3
$30,000+	800	2	94,500	10
No answer	4,500	12	136,600	14
Total	38,700	100	957,700	100
		ALL INDIVIDUAL OWNERS		
Under $10,000	126,300	30	2,473,800	29
$10,000-$14,999	75,400	18	1,178,900	14
$15,000-$19,999	56,500	13	914,200	11
$20,000-$24,999	13,800	3	524,300	6
$25,000-$29,999	12,800	3	274,100	3
$30,000+	48,600	12	1,655,500	19
No answer	89,200	21	1,537,200	18
Total	422,600	100	8,558,000	100

(W) Less than 0.5 percent or fewer than 50 owners.

Table 10.—Estimated number of individual owners and acres of commercial forest land owned, by early life environment[a] for harvesters and nonharvesters, Pennsylvania,1978

Early life environment	Individual owners		Acres owned	
	Number	*Percent*	*Number*	*Percent*
	HARVESTERS			
City over 100,000	3,300	1	219,300	3
City 10,000-99,999	6,200	1	217,500	2
Town or city under 10,000	11,500	3	466,700	5
Rural area	17,900	4	836,900	10
On a farm	59,500	14	1,924,400	23
No answer	9,800	3	406,100	5
Total	108,200	26	4,070,900	48
	NONHARVESTERS			
City over 100,000	30,200	7	435,100	5
City 10,000-99,999	28,800	7	499,200	6
Town or city under 10,000	31,900	7	670,800	8
Rural area	88,200	21	1,061,000	12
On a farm	92,100	22	1,387,500	16
No answer	43,200	10	433,500	5
Total	314,400	74	4,487,100	52
	ALL INDIVIDUAL OWNERS			
City over 100,000	33,500	8	654,400	8
City 10,000-99,999	35,000	8	716,700	8
Town or city under 10,000	43,400	10	1,137,500	13
Rural area	106,100	25	1,897,900	22
On a farm	151,600	36	3,311,900	39
No answer	53,000	13	839,600	10
Total	422,600	100	8,558,000	100

[a]First 12 years.

Table 11.—Estimated number of individual owners and acres of commercial forest land owned, by early life environment[a] and geographic unit, Pennsylvania, 1978

Early life environment	Individual owners		Acres owned	
	Number	*Percent*	*Number*	*Percent*
	WESTERN			
City over 100,000	5,500	5	191,700	10
City 10,000-99,999	4,500	4	187,000	10
Town or city under 10,000	5,800	5	242,800	12
Rural area	45,200	40	484,200	25
On a farm	40,100	36	663,100	34
No answer	11,800	10	182,200	9
Total	112,900	100	1,951,000	100
	ALLEGHENY			
City over 100,000	1,000	3	46,200	5
City 10,000-99,999	400	1	35,400	4
Town or city under 10,000	1,100	4	51,500	6
Rural area	13,100	43	324,000	37
On a farm	10,600	35	361,000	41
No answer	4,200	14	58,400	7
Total	30,400	100	876,500	100
	NORTH CENTRAL			
City over 100,000	3,000	7	75,500	6
City 10,000-99,999	1,300	3	86,300	6
Town or city under 10,000	3,900	8	241,600	18
Rural area	5,400	11	278,200	21
On a farm	32,100	68	485,300	36
No answer	1,500	3	183,300	13
Total	47,200	100	1,350,200	100
	SOUTHWESTERN			
City over 100,000	2,400	5	18,900	2
City 10,000-99,999	700	1	66,600	6
Town or city under 10,000	6,600	14	142,500	14
Rural area	9,700	20	247,400	24
On a farm	7,000	15	380,500	37
No answer	21,300	45	171,300	17
Total	47,700	100	1,027,200	100
	NORTHEASTERN			
City over 100,000	13,700	28	127,400	13
City 10,000-99,999	5,800	12	100,000	10
Town or city under 10,000	10,300	21	97,000	10
Rural area	4,300	9	109,100	11
On a farm	11,200	23	433,600	44
No answer	3,200	7	115,200	12
Total	48,500	100	982,300	100

(continued)

Table 11. — continued

Early life environment	Individual owners		Acres owned	
	Number	*Percent*	*Number*	*Percent*
	POCONO			
City over 100,000	600	2	51,800	7
City 10,000-99,999	12,100	38	124,400	16
Town or city under 10,000	4,300	13	146,100	19
Rural area	1,200	4	104,600	13
On a farm	11,900	37	291,200	38
No answer	2,000	6	51,800	7
Total	32,100	100	769,900	100
	SOUTHEASTERN			
City over 100,000	5,600	9	48,400	8
City 10,000-99,999	7,900	12	64,500	10
Town or city under 10,000	4,900	8	111,000	17
Rural area	21,500	33	161,300	25
On a farm	16,500	25	201,600	31
No answer	8,700	13	56,400	9
Total	65,100	100	643,200	100
	SOUTH CENTRAL			
City over 100,000	1,700	4	94,500	10
City 10,000-99,999	2,300	6	52,500	5
Town or city under 10,000	6,500	17	105,000	11
Rural area	5,700	15	189,100	20
On a farm	22,200	57	495,600	52
No answer	300	1	21,000	2
Total	38,700	100	957,700	100
	ALL INDIVIDUAL OWNERS			
City over 100,000	33,500	8	654,400	8
City 10,000-99,999	35,000	8	716,700	8
Town or city under 10,000	43,400	10	1,137,500	13
Rural area	106,100	25	1,897,900	22
On a farm	151,600	36	3,311,900	39
No answer	53,000	13	839,600	10
Total	422,600	100	8,558,000	100

[a]First 12 years.

Table 12.—Estimated number of owners and acres of commercial forest land owned, by tenure and ownership class, Pennsylvania, 1978

Tenure of ownership (years)	Forest industry	Individual	Other corporation	Other	Total
		OWNERS			
Under 5	W	86,200	1,700	4,500	92,400
5-9	400	68,100	2,900	11,300	82,700
10-24	100	114,900	1,400	22,100	138,500
25-49	100	98,000	1,200	10,800	110,100
50+	W	10,200	300	2,900	13,400
No answer	100	44,700	1,400	6,800	53,000
Total	700	422,100	8,900	58,400	490,100
		ACRES OWNED			
Under 5	9,500	1,132,600	146,900	113,800	1,402,800
5-9	114,100	1,236,200	130,300	171,500	1,652,100
10-24	326,600	2,671,600	219,800	268,500	3,486,500
25-49	419,800	2,429,700	295,400	448,900	3,593,800
50+	52,400	344,500	405,000	351,900	1,153,800
No answer	41,600	522,200	357,200	242,700	1,163,700
Total	964,000	8,336,800	1,554,600	1,597,300	12,452,700

(W) Less than 0.5 percent or fewer than 50 owners.

Table 13.—Estimated number of individual owners and acres of commercial forest land owned, by tenure of ownership and geographic unit, Pennsylvania, 1978

Tenure of ownership (years)	Individual owners		Acres owned	
	Number	*Percent*	*Number*	*Percent*
		WESTERN		
Under 5	12,500	11	327,500	17
5-9	19,800	18	332,200	17
10-24	34,100	30	599,200	31
25-49	37,800	33	497,000	25
50+	3,500	3	89,500	5
No answer	5,200	5	105,600	5
Total	112,900	100	1,951,000	100
		ALLEGHENY		
Under 5	4,600	15	93,000	10
5-9	7,700	26	166,300	19
10-24	6,900	22	234,900	27
25-49	5,700	19	305,700	35
50+	900	3	34,300	4
No answer	4,600	15	42,300	5
Total	30,400	100	876,500	100
		NORTH CENTRAL		
Under 5	18,200	39	198,400	15
5-9	3,400	7	140,200	10
10-24	10,500	22	435,700	32
25-49	10,500	22	381,800	28
50+	3,300	7	86,200	7
No answer	1,300	3	107,900	8
Total	47,200	100	1,350,200	100
		SOUTHWESTERN		
Under 5	19,800	41	133,200	13
5-9	4,600	10	133,100	13
10-24	4,500	9	304,400	30
25-49	6,800	14	342,400	33
50+	300	1	19,000	2
No answer	11,700	25	95,100	9
Total	47,700	100	1,027,200	100
		NORTHEASTERN		
Under 5	7,700	16	81,900	8
5-9	14,400	30	133,300	14
10-24	19,700	41	385,000	39
25-49	4,100	8	291,100	30
50+	1,400	3	36,400	4
No answer	1,200	2	54,600	5
Total	48,500	100	982,300	100

(continued)

Table 13. — continued

Tenure of ownership (years)	Individual owners		Acres owned	
	Number	*Percent*	*Number*	*Percent*
		POCONO		
Under 5	2,100	7	73,600	9
5-9	1,800	6	114,000	15
10-24	17,300	54	321,200	42
25-49	4,900	15	198,900	26
50+	100	W	10,400	1
No answer	5,900	18	51,800	7
Total	32,100	100	769,900	100
		SOUTHEASTERN		
Under 5	15,700	24	119,100	19
5-9	10,400	16	96,800	15
10-24	11,000	17	153,200	24
25-49	17,300	27	193,500	30
50+	300	W	16,100	2
No answer	10,400	16	64,500	10
Total	65,100	100	643,200	100
		SOUTH CENTRAL		
Under 5	5,600	15	115,500	12
5-9	6,300	16	178,600	19
10-24	11,000	28	273,100	29
25-49	10,900	28	306,500	32
50+	400	1	52,500	5
No answer	4,500	12	31,500	3
Total	38,700	100	957,700	100
		ALL INDIVIDUAL OWNERS		
Under 5	86,200	20	1,142,200	14
5-9	68,400	16	1,294,500	15
10-24	115,000	27	2,706,700	32
25-49	98,000	23	2,516,900	29
50+	10,200	3	344,400	4
No answer	44,800	11	553,300	6
Total	422,600	100	8,558,000	100

(W) Less than 0.5 percent or fewer than 50 owners.

Table 14.—Estimated number of private owners and acres of commercial forest land owned, by distance from residence to nearest tract and by geographic unit, Pennsylvania, 1978

Distance from residence (miles)	Western		Allegheny		North Central		Southwestern		Northeastern	
	Number	*Percent*	*Number*	*Percent*	*Number*	*Percent*	*Number*	*Percent*	*Number*	*Percent*
					OWNERS					
0-1	89,800	73	21,900	62	35,200	65	31,400	63	26,200	51
2-5	7,300	6	1,700	5	1,700	3	2,600	5	300	1
6-15	2,600	2	700	2	2,200	4	1,600	3	9,600	18
16-25	700	1	1,600	5	1,100	2	—	—	300	1
26-50	3,100	3	100	W	700	1	100	W	500	1
Over 50	6,800	5	3,800	11	6,100	11	3,100	6	12,500	24
No answer	11,900	10	5,300	15	7,600	14	11,400	23	2,200	4
Total	122,200	100	35,100	100	54,600	100	50,200	100	51,600	100
					ACRES OWNED					
0-1	1,322,900	55	1,044,800	55	974,900	47	760,900	57	830,800	67
2-5	230,000	10	181,200	9	267,400	13	142,700	11	63,700	5
6-15	250,900	10	310,200	16	166,100	8	95,100	7	72,800	6
16-25	59,200	2	32,100	2	86,300	4	—	—	27,300	2
26-50	97,500	4	40,100	2	64,700	3	57,100	4	27,300	2
Over 50	242,800	10	216,100	11	347,300	16	114,100	9	133,300	11
No answer	222,200	9	93,600	5	181,200	9	159,400	12	82,800	7
Total	2,425,500	100	1,918,100	100	2,087,900	100	1,329,300	100	1,238,000	100

(continued)

Table 14. — continued

Distance from residence (miles)	Pocono		Southeastern		South Central		State total	
	Number	*Percent*	*Number*	*Percent*	*Number*	*Percent*	*Number*	*Percent*
				OWNERS				
0-1	19,100	50	55,400	69	28,300	49	307,300	63
2-5	1,900	5	3,500	4	2,200	4	21,200	4
6-15	13,200	35	6,600	8	1,100	2	37,600	8
16-25	300	1	4,700	6	3,600	6	12,300	2
26-50	100	W	3,200	4	600	1	8,400	2
Over 50	2,200	6	—	—	20,800	36	55,300	11
No answer	1,200	3	7,000	9	1,400	2	48,000	10
Total	38,000	100	80,400	100	58,000	100	490,100	100
				ACRES OWNED				
0-1	668,500	48	586,700	68	562,900	47	6,752,400	54
2-5	145,100	10	69,200	8	128,700	11	1,228,000	10
6-15	93,300	7	102,900	12	94,500	8	1,185,800	10
16-25	41,400	3	24,200	3	42,000	3	312,500	2
26-50	51,800	4	32,300	4	48,200	4	419,000	3
Over 50	176,200	12	—	—	257,800	22	1,487,600	12
No answer	221,300	16	43,900	5	63,100	5	1,067,500	9
Total	1,397,600	100	859,200	100	1,197,200	100	12,452,800	100

(W) Less than 0.5 percent or fewer than 50 owners.

Table 15.—Estimated number of private owners and acres of commercial forest land owned, by number of tracts and geographic unit, Pennsylvania, 1978

No. of tracts	Western		Allegheny		North Central		Southwestern		Northeastern	
	Number	*Percent*	*Number*	*Percent*	*Number*	*Percent*	*Number*	*Percent*	*Number*	*Percent*
					OWNERS					
1	102,500	84	29,500	84	42,500	78	44,800	89	47,200	91
2	13,400	11	3,600	10	8,700	16	2,600	5	2,500	5
3 or more	6,300	5	2,000	6	3,400	6	2,800	6	1,900	4
Total	122,200	100	35,100	100	54,600	100	50,200	100	51,600	100
					ACRES OWNED					
1	1,461,300	60	709,800	37	965,000	46	705,700	53	722,500	58
2	378,700	16	197,500	10	375,300	18	247,300	19	197,000	16
3 or more	585,500	24	1,010,800	53	747,600	36	376,300	28	318,500	26
Total	2,425,500	100	1,918,100	100	2,087,900	100	1,329,300	100	1,238,000	100

No. of tracts	Pocono		Southeastern		South Central		State total	
	Number	*Percent*	*Number*	*Percent*	*Number*	*Percent*	*Number*	*Percent*
				OWNERS				
1	34,000	90	70,200	87	51,200	88	421,900	86
2	2,300	6	6,800	9	3,600	6	43,500	9
3 or more	1,700	4	3,400	4	3,200	6	24,700	5
Total	38,000	100	80,400	100	58,000	100	490,100	100
				ACRES OWNED				
1	868,400	62	562,500	66	785,000	66	6,780,200	54
2	190,500	14	113,900	13	157,500	13	1,857,700	15
3 or more	338,700	24	182,800	21	254,700	21	3,814,900	31
Total	1,397,600	100	859,200	100	1,197,200	100	12,452,800	100

Table 16.—Estimated number of private owners and acres of commercial forest land owned, by distance from tracts, Pennsylvania, 1978

Distance (miles)	Owners of 1 tract	Owners of more than 1 tract	
		Distance to:	
		Nearest tract	Farthest tract
	OWNERS		
0-1	261,100	46,200	30,800
2-5	14,200	7,000	13,500
6-15	33,300	4,300	8,000
16-25	12,000	300	2,500
26-50	7,300	1,100	1,700
Over 50	50,200	5,100	9,200
No answer	43,800	4,200	2,500
Total	421,900	68,200	68,200
	ACRES OWNED		
0-1	3,666,200	3,086,200	1,168,800
2-5	512,900	715,100	838,300
6-15	385,500	800,300	687,200
16-25	221,700	90,800	441,500
26-50	242,600	176,400	558,800
Over 50	1,075,900	411,700	1,647,200
No answer	675,400	392,100	330,800
Total	6,780,200	5,672,600	5,672,600

Table 17.—Estimated number of private owners and acres of commercial forest land owned, by primary reason for owning, for harvesters and nonharvesters, Pennsylvania, 1978.

Primary reason for owning	Private owners		Acres owned	
	Number	*Percent*	*Number*	*Percent*
		HARVESTERS		
Land investment	7,600	1	894,600	7
Recreational use	13,500	3	784,300	7
Timber production	2,500	1	1,373,800	11
Farm and domestic use	28,900	6	841,300	6
Esthetic enjoyment	8,100	2	417,300	4
Part of farm	35,500	7	1,011,200	8
Part of residence	17,600	3	372,000	3
Other	3,800	1	587,300	5
No answer	5,000	1	263,200	2
Total	122,500	25	6,545,000	53
		NONHARVESTERS		
Land investment	36,500	8	1,021,500	8
Recreational use	47,500	9	1,148,000	9
Timber production	700	W	44,100	W
Farm and domestic use	42,700	9	564,600	5
Esthetic enjoyment	67,000	13	756,900	6
Part of farm	40,500	9	756,200	6
Part of residence	54,600	12	570,800	5
Other	27,200	5	659,500	5
No answer	50,900	10	386,200	3
Total	367,600	75	5,907,800	47
		ALL PRIVATE OWNERS		
Land investment	44,100	9	1,916,100	15
Recreational use	61,000	12	1,932,300	16
Timber production	3,200	1	1,417,900	11
Farm and domestic use	71,600	15	1,405,900	11
Esthetic enjoyment	75,100	15	1,174,200	10
Part of farm	76,000	16	1,767,400	14
Part of residence	72,200	15	942,800	8
Other	31,000	6	1,246,800	10
No answer	55,900	11	649,400	5
Total	490,100	100	12,452,800	100

(W) Less than 0.5 percent or fewer than 50 owners.

Table 18.—Estimated number of private owners and acres of commercial forest land owned, by primary and secondary reason for owning, Pennsylvania, 1978

Reason for owning	Primary reason		Secondary reason	
	Number	*Percent*	*Number*	*Percent*
		OWNERS		
Land investment	44,100	9	21,300	4
Recreational use	61,000	12	26,400	5
Timber production	3,200	1	7,700	2
Farm and domestic use	71,600	15	43,100	9
Esthetic enjoyment	75,100	15	57,500	12
Part of farm	76,000	16	14,500	3
Part of residence	72,200	15	34,200	7
Other	31,000	6	4,200	1
No secondary reason given	- - -Not applicable- - -		225,300	46
No answer	55,900	11	55,900	11
Total	490,100	100	490,100	100
		ACRES OWNED		
Land investment	1,916,100	15	709,800	6
Recreational use	1,932,300	16	1,325,400	11
Timber production	1,417,900	11	618,000	5
Farm and domestic use	1,405,900	11	858,000	7
Esthetic enjoyment	1,174,200	10	1,162,300	9
Part of farm	1,767,400	14	528,100	4
Part of residence	942,800	8	376,500	3
Other	1,246,800	10	429,300	3
No secondary reason given	- - -Not applicable- - -		5,796,000	47
No answer	649,400	5	649,400	5
Total	12,452,800	100	12,452,800	100

Table 19.—Estimated number of private owners and acres of commercial forest land owned, by primary reason for owning and expected time of future harvest, Pennsylvania, 1978

Primary reason for owning	Expected time of future harvest						No answer		Total	
	Next 10 years		Indefinite		Never					
	Number	*Percent*	*Number*	*Percent*	*Number*	*Percent*	*Number*	*Percent*	*Number*	*Percent*
					OWNERS					
Land investment	4,500	12	22,000	13	16,600	7	1,000	2	44,100	9
Recreational use	5,100	13	22,500	14	29,500	12	3,900	9	61,000	12
Timber production	1,600	4	1,500	1	100	W	W	W	3,200	1
Farm and domestic use	12,300	32	37,000	22	20,100	8	2,200	5	71,600	15
Esthetic enjoyment	2,800	7	19,200	11	53,100	22	—	—	75,100	15
Part of farm	6,000	15	36,600	22	30,000	13	3,400	7	76,000	16
Part of residence	4,900	13	19,200	11	42,600	18	5,500	12	72,200	15
Other	900	2	6,400	4	22,900	10	800	2	31,000	6
No answer	700	2	3,200	2	23,800	10	28,200	63	55,900	11
Total	38,800	100	167,600	100	238,700	100	45,000	100	490,100	100
					ACRES OWNED					
Land investment	629,700	18	857,200	16	348,300	14	80,900	9	1,916,100	15
Recreational use	435,100	12	932,600	17	423,300	16	141,300	16	1,932,300	16
Timber production	1,248,500	35	136,700	3	12,800	W	19,900	2	1,417,900	11
Farm and domestic use	294,600	8	824,700	15	231,000	9	55,600	7	1,405,900	11
Esthetic enjoyment	160,500	5	508,500	9	505,200	20	—	—	1,174,200	10
Part of farm	299,600	8	1,075,300	20	282,200	11	110,300	13	1,767,400	14
Part of residence	80,000	2	478,200	9	330,200	13	54,400	6	942,800	8
Other	353,800	10	499,200	9	322,600	12	71,200	8	1,246,800	10
No answer	87,000	2	103,000	2	118,200	5	341,200	39	649,400	5
Total	3,588,800	100	5,415,400	100	2,573,800	100	874,800	100	12,452,800	100

(W) Less than 0.5 percent or fewer than 50 owners.

Table 20.—Estimated number of private owners and acres of commercial forest land owned, by primary reason for owning and geographic unit, Pennsylvania, 1978

Primary reason for owning	Western		Allegheny		North Central		Southwestern		Northeastern	
	Number	*Percent*	*Number*	*Percent*	*Number*	*Percent*	*Number*	*Percent*	*Number*	*Percent*
					OWNERS					
Land investment	4,000	3	3,200	9	3,200	6	2,700	5	20,000	39
Recreational use	10,100	8	4,400	12	6,900	13	2,400	5	5,300	10
Timber production	1,500	1	300	1	500	1	500	1	100	W
Farm and domestic use	23,400	19	6,500	19	10,000	18	4,300	9	5,500	11
Esthetic enjoyment	11,200	9	4,000	11	4,900	9	6,500	13	3,600	7
Part of farm	22,700	19	5,000	14	9,300	17	2,000	4	8,000	16
Part of residence	24,200	20	5,100	15	9,500	17	10,000	20	4,900	9
Other	18,000	15	1,100	3	3,900	7	600	1	2,300	4
No answer	7,100	6	5,500	16	6,400	12	21,200	42	1,900	4
Total	122,200	100	35,100	100	54,600	100	50,200	100	51,600	100
					ACRES OWNED					
Land investment	353,100	15	192,600	10	349,400	17	256,700	19	172,800	14
Recreational use	279,700	11	231,300	12	364,500	17	190,300	14	209,200	17
Timber production	115,000	5	803,100	42	226,500	11	76,100	6	45,500	4
Farm and domestic use	365,900	15	130,300	7	172,500	8	190,300	14	118,300	9
Esthetic enjoyment	301,900	12	139,500	7	155,300	7	76,000	6	109,200	9
Part of farm	460,100	19	102,300	5	241,600	12	142,700	11	357,700	29
Part of residence	191,700	8	63,300	3	140,200	7	133,200	10	78,800	6
Other	239,700	10	161,900	9	297,700	14	102,300	8	101,000	8
No answer	118,400	5	93,800	5	140,200	7	161,700	12	45,500	4
Total	2,425,500	100	1,918,100	100	2,087,900	100	1,329,300	100	1,238,000	100

(continued)

Table 20. — continued

Primary reason for owning	Pocono		Southeastern		South Central		State total	
	Number	*Percent*	*Number*	*Percent*	*Number*	*Percent*	*Number*	*Percent*
				OWNERS				
Land investment	1,200	3	4,200	5	5,600	10	44,100	9
Recreational use	5,000	13	5,700	7	21,200	36	61,000	12
Timber production	W	W	W	W	300	1	3,200	1
Farm or domestic use	5,300	14	9,500	12	7,100	12	71,600	15
Esthetic enjoyment	12,300	33	22,400	28	10,200	17	75,100	15
Part of farm	5,000	13	16,000	20	8,000	14	76,000	16
Part of residence	2,400	6	11,500	14	4,600	8	72,200	15
Other	2,700	7	1,400	2	1,000	2	31,000	6
No answer	4,100	11	9,700	12	—	—	55,900	11
Total	38,000	100	80,400	100	58,000	100	490,100	100
				ACRES OWNED				
Land investment	272,700	20	102,900	12	215,900	18	1,916,100	15
Recreational use	310,900	22	104,800	12	241,600	20	1,932,300	16
Timber production	20,700	1	12,800	1	118,200	10	1,417,900	11
Farm and domestic use	134,700	10	104,800	12	189,100	16	1,405,900	11
Esthetic enjoyment	145,100	10	161,300	19	85,900	7	1,174,200	10
Part of farm	146,100	10	159,400	19	157,500	13	1,767,400	14
Part of residence	94,300	7	104,800	12	136,500	12	942,800	8
Other	231,700	17	60,000	7	52,500	4	1,246,800	10
No answer	41,400	3	48,400	6	—	—	649,400	5
Total	1,397,600	100	859,200	100	1,197,200	100	12,452,800	100

(W) Less than 0.5 percent or fewer than 50 owners.

Table 21.—Estimated number of private owners and acres of commercial forest land owned, by primary benefit derived in the last 5 years and primary benefit expected in the next 5 years, for harvesters and nonharvesters, Pennsylvania, 1978

Primary benefit	Derived in last 5 years				Expected in next 5 years			
	Private owners		Acres owned		Private owners		Acres owned	
	Number	*Percent*	*Number*	*Percent*	*Number*	*Percent*	*Number*	*Percent*
				HARVESTERS				
Recreational use	15,300	3	946,600	8	15,100	3	926,000	7
Sale of timber	13,800	3	1,480,000	12	4,700	1	1,309,800	11
Land value increase	18,200	4	1,296,500	10	16,700	3	1,326,100	11
Esthetic enjoyment	26,700	5	923,200	7	27,200	6	971,300	8
Farm and domestic use	36,800	8	954,300	8	39,100	8	994,900	8
Other	5,900	1	578,000	5	13,100	3	594,300	5
No answer	5,800	1	366,400	3	6,600	1	422,600	3
Total	122,500	25	6,545,000	53	122,500	25	6,545,000	53
				NONHARVESTERS				
Recreational use	64,400	13	1,190,300	9	69,700	14	1,105,300	9
Sale of timber	—	—	—	—	3,400	1	174,900	1
Land value increase	46,500	9	1,247,300	10	59,400	13	1,435,000	11
Esthetic enjoyment	124,200	26	1,638,100	14	104,000	21	1,485,600	12
Farm and domestic use	53,500	11	704,100	5	46,600	9	658,700	5
Other	20,100	4	494,900	4	27,700	5	460,200	4
No answer	58,900	12	633,100	5	56,800	12	588,100	5
Total	367,600	75	5,907,800	47	367,600	75	5,907,800	47
				ALL PRIVATE OWNERS				
Recreational use	79,700	16	2,136,900	17	84,800	17	2,031,300	16
Sale of timber	13,800	3	1,480,000	12	8,100	2	1,484,700	12
Land value increase	64,700	13	2,543,800	20	76,100	16	2,761,100	22
Esthetic enjoyment	150,900	31	2,561,300	21	131,200	27	2,456,900	20
Farm and domestic use	90,300	19	1,658,400	13	85,700	17	1,653,600	13
Other	26,000	5	1,072,900	9	40,800	8	1,054,500	9
No answer	64,700	13	999,500	8	63,400	13	1,010,700	8
Total	490,100	100	12,452,800	100	490,100	100	12,452,800	100

Table 22.—Estimated number of private owners and acres of commercial forest land owned by primary benefit expected in the next 5 years and expected time of future harvest, Pennsylvania, 1978

Primary benefit	Expected time of future harvest								Total	
	Next 10 years		Indefinite		Never		No answer			
	Number	*Percent*	*Number*	*Percent*	*Number*	*Percent*	*Number*	*Percent*	*Number*	*Percent*
					OWNERS					
Recreational use	3,600	9	48,000	29	29,400	12	3,800	8	84,800	17
Sale of timber	3,400	9	4,700	3	—	—	—	—	8,100	2
Land value increase	10,300	26	30,600	18	34,300	14	900	2	76,100	16
Esthetic enjoyment	5,700	15	38,300	23	85,800	36	1,400	3	131,200	27
Farm and domestic use	7,700	20	33,900	20	39,700	17	4,400	10	85,700	17
Other	7,300	19	6,200	4	21,700	9	5,600	13	40,800	8
No answer	800	2	5,900	3	27,800	12	28,900	64	63,400	13
Total	38,800	100	167,600	100	238,700	100	45,000	100	490,100	100
					ACRES OWNED					
Recreational use	439,100	12	1,057,400	19	422,400	16	112,400	13	2,031,300	16
Sale of timber	1,270,700	35	214,000	4	—	—	—	—	1,484,700	12
Land value increase	788,600	22	1,392,000	26	479,000	19	101,500	12	2,761,100	22
Esthetic enjoyment	308,700	9	1,178,800	22	906,900	35	62,500	7	2,456,900	20
Farm and domestic use	279,900	8	929,000	17	345,100	13	99,600	11	1,653,600	13
Other	390,600	11	333,200	6	250,100	10	80,600	9	1,054,500	9
No answer	111,200	3	311,000	6	170,300	7	418,200	48	1,010,700	8
Total	3,588,800	100	5,415,400	100	2,573,800	100	874,800	100	12,452,800	100

Table 23.—Estimated number of private owners and acres of commercial forest land owned, by primary benefit expected in the next 5 years and geographic unit, Pennsylvania, 1978

Primary benefit	Western		Allegheny		North Central		Southwestern		Northeastern	
	Number	*Percent*	*Number*	*Percent*	*Number*	*Percent*	*Number*	*Percent*	*Number*	*Percent*
					OWNERS					
Recreational use	21,200	17	4,100	12	11,200	21	2,300	5	11,900	23
Sale of timber	2,000	2	400	1	3,400	6	600	1	500	1
Land value increase	21,200	17	8,100	23	8,500	16	5,500	11	11,500	22
Esthetic enjoyment	27,700	23	12,300	35	10,000	18	8,500	17	10,200	20
Farm and domestic use	25,000	21	3,500	10	4,600	8	4,800	10	11,700	23
Other	13,800	11	1,100	3	9,700	18	7,300	14	2,800	5
No answer	11,300	9	5,600	16	7,200	13	21,200	42	3,000	6
Total	122,200	100	35,100	100	54,600	100	50,200	100	51,600	100
					ACRES OWNED					
Recreational use	275,000	11	230,200	12	401,200	19	180,800	14	218,300	18
Sale of timber	127,800	5	763,000	40	291,200	14	85,600	6	72,800	6
Land value increase	626,200	26	270,300	14	418,400	20	333,000	25	254,700	21
Esthetic enjoyment	595,900	25	286,400	15	323,500	16	247,100	18	272,700	22
Farm and domestic use	391,400	16	123,900	6	183,300	9	171,200	13	236,600	19
Other	175,800	7	127,600	7	239,500	11	130,800	10	91,900	7
No answer	233,400	10	116,700	6	230,800	11	180,800	14	91,000	7
Total	2,425,500	100	1,918,100	100	2,087,900	100	1,329,300	100	1,238,000	100

(continued)

Table 23. — continued

Primary benefit	Pocono		Southeastern		South Central		State total	
	Number	*Percent*	*Number*	*Percent*	*Number*	*Percent*	*Number*	*Percent*
				OWNERS				
Recreational use	4,300	11	7,600	10	22,200	38	84,800	17
Sale of timber	200	1	200	W	800	1	8,100	2
Land value increase	3,500	9	11,500	14	6,300	11	76,100	16
Esthetic enjoyment	13,400	35	34,000	42	15,100	26	131,200	27
Farm and domestic use	7,600	20	16,400	21	12,100	21	85,700	17
Other	4,600	12	200	W	1,300	2	40,800	8
No answer	4,400	12	10,500	13	200	1	63,400	13
Total	38,000	100	80,400	100	58,000	100	490,100	100
				ACRES OWNED				
Recreational use	321,300	23	120,900	14	283,600	24	2,031,300	16
Sale of timber	20,700	2	37,000	4	86,600	7	1,484,700	12
Land value increase	376,300	27	161,300	19	320,900	27	2,761,100	22
Esthetic enjoyment	219,700	16	320,600	37	191,000	16	2,456,900	20
Farm and domestic use	186,500	13	119,100	14	241,600	20	1,653,600	13
Other	200,600	14	35,800	4	52,500	4	1,054,500	9
No answer	72,500	5	64,500	8	21,000	2	1,010,700	8
Total	1,397,600	100	859,200	100	1,197,200	100	12,452,800	100

(W) Less than 0.5 percent or fewer than 50 owners.

Table 24.—Estimated number of private owners who have harvested timber and acres of commercial forest land owned, by reason for harvesting and form of ownership, Pennsylvania, 1978

Reason for harvesting	Forest industry	Miscellaneous ownership			Total
		Individual[a]	Corporate	Other[b]	
		HARVESTERS			
Timber mature	400	16,200	300	1,900	18,800
Good price	—	4,600	300	500	5,400
Land clearing	—	2,400	200	2,300	4,900
Needed money	—	29,300	W	1,600	30,900
Own use or company use	100	35,100	100	1,900	37,200
Timber salvage	—	2,700	—	200	2,900
Cultural treatment	—	100	100	W	200
Other	W	5,000	W	3,700	8,700
No answer	100	12,300	200	900	13,500
Total	600	107,700	1,200	13,000	122,500
		ACRES OWNED			
Timber mature	350,000	1,235,500	400,600	245,600	2,231,700
Good price	—	281,500	55,200	99,900	436,600
Land clearing	—	158,100	63,300	70,100	291,500
Needed money	—	860,400	9,500	141,700	1,011,600
Own use or company use	490,000	678,100	52,700	50,700	1,271,500
Timber salvage	—	84,100	—	64,000	148,100
Cultural treatment	—	30,400	8,100	10,500	49,000
Other	45,600	220,100	88,000	108,600	462,300
No answer	60,900	311,000	198,800	72,000	642,700
Total	946,500	3,859,200	876,200	863,100	6,545,000

[a] Includes joint ownership.

[b] Includes partnerships, undivided estates, clubs, associations, etc.

(W) Less than 0.5 percent or fewer than 50 owners.

Table 25.—Estimated number of private owners who have harvested timber and acres of commercial forest land owned, by reason for harvesting and geographic unit, Pennsylvania, 1978

Reason for harvesting	Western		Allegheny		North Central		Southwestern		Northeastern	
	Number	*Percent*	*Number*	*Percent*	*Number*	*Percent*	*Number*	*Percent*	*Number*	*Percent*
					HARVESTERS					
Timber mature	4,900	17	2,200	23	2,300	17	2,200	20	1,000	8
Good price	1,500	5	200	2	1,100	8	400	4	200	2
Land clearing	1,600	6	400	4	100	1	100	1	1,100	8
Needed money	4,300	15	3,900	40	7,600	57	6,600	62	2,100	16
Own/company use	9,300	33	1,300	13	1,000	8	200	2	8,100	62
Timber salvage	1,500	5	—	—	500	3	100	1	—	—
Cultural treatment	—	—	—	—	100	1	—	—	100	W
Other	3,300	12	600	6	200	2	W	W	200	2
No answer	1,800	7	1,200	12	500	3	1,100	10	200	2
Total	28,200	100	9,800	100	13,400	100	10,700	100	13,000	100
					ACRES OWNED					
Timber mature	292,500	29	572,600	42	522,000	44	171,200	26	160,600	25
Good price	89,500	9	45,700	3	69,000	6	57,100	7	36,400	6
Land clearing	97,500	9	16,100	1	64,700	5	19,000	3	36,400	6
Needed money	166,100	16	137,700	10	187,600	16	161,800	25	178,900	28
Own/company use	161,400	16	378,400	28	97,100	8	76,100	12	136,500	21
Timber salvage	38,400	4	—	—	53,900	4	19,000	3	—	—
Cultural treatment	—	—	—	—	10,800	1	—	—	9,100	1
Other	102,200	10	115,400	8	75,500	6	19,000	3	27,300	4
No answer	70,200	7	109,900	8	116,500	10	140,300	21	55,200	9
Total	1,017,800	100	1,375,800	100	1,197,100	100	663,500	100	640,400	100

(continued)

Table 25. — continued

Reason for harvesting	Pocono		Southeastern		South Central		State total	
	Number	*Percent*	*Number*	*Percent*	*Number*	*Percent*	*Number*	*Percent*
				HARVESTERS				
Timber mature	900	11	1,400	8	3,900	18	18,800	15
Good price	W	W	800	5	1,200	6	5,400	5
Land clearing	100	1	1,100	6	400	2	4,900	4
Needed money	1,900	24	3,800	22	700	3	30,900	25
Own/company use	4,500	56	7,300	41	5,500	25	37,200	30
Timber salvage	100	1	700	4	—	—	2,900	3
Cultural treatment	—	—	W	W	W	W	200	W
Other	500	6	400	2	3,500	16	8,700	7
No answer	100	1	2,200	12	6,400	30	13,500	11
Total	8,100	100	17,700	100	21,600	100	122,500	100
				ACRES OWNED				
Timber mature	165,800	28	88,700	26	258,300	36	2,231,700	34
Good price	43,700	7	32,200	9	63,000	8	436,600	7
Land clearing	20,700	4	16,100	5	21,000	3	291,500	4
Needed money	41,500	7	64,500	19	73,500	10	1,011,600	16
Own/company use	155,400	27	85,400	25	181,200	25	1,271,500	19
Timber salvage	20,700	4	16,100	5	—	—	148,100	2
Cultural treatment	—	—	8,100	2	21,000	3	49,000	1
Other	51,800	9	8,100	2	63,000	9	462,300	7
No answer	82,600	14	26,000	7	42,000	6	642,700	10
Total	582,200	100	345,200	100	723,000	100	6,545,000	100

(W) Less than 0.5 percent or fewer than 50 owners.

Table 26.—Estimated number of private owners who have not harvested timber and acres of commercial forest land owned, by reason for not harvesting and form of ownership, Pennsylvania, 1978

Reason for not harvesting	Forest industry	Miscellaneous ownership			Total
		Individual[a]	Corporate	Other[b]	
		OWNERS			
Timber immature	W	50,100	3,200	9,700	63,000
No market	—	1,900	W	—	1,900
Price too low	—	3,400	300	400	4,100
Destroy hunting	—	11,800	500	15,000	27,300
Selling the land	—	4,000	700	2,800	7,500
Ruin scenery	—	73,600	1,200	2,500	77,300
Land in estate	—	500	—	1,000	1,500
Distrust loggers	—	1,800	—	300	2,100
Opposed to harvest	—	7,400	—	100	7,500
Poor quality	—	6,700	200	2,100	9,000
Low volume	—	28,200	100	300	28,600
Fire hazard	—	200	—	—	200
Insufficient area	—	43,300	200	5,500	49,000
Other	100	36,900	900	3,200	41,100
No answer	—	44,700	400	2,400	47,500
Total	100	314,500	7,700	45,300	367,600
		ACRES OWNED			
Timber immature	9,500	1,188,200	102,200	163,500	1,463,400
No market	—	58,300	10,400	—	68,700
Price too low	—	151,000	26,800	10,800	188,600
Destroy hunting	—	293,500	46,700	86,000	426,200
Selling the land	—	122,700	97,500	53,400	273,600
Ruin scenery	—	773,200	97,400	55,600	926,200
Land in estate	—	30,000	—	73,300	103,300
Distrust loggers	—	95,600	—	18,800	114,400
Opposed to harvest	—	113,700	—	10,500	124,200
Poor quality	—	103,800	74,000	21,900	199,700
Low volume	—	277,300	21,600	21,900	[illegible]
Fire hazard	—	10,400	—	—	[illegible]
Insufficient area	—	111,900	8,100	34,600	[illegible]
Other	8,000	654,800	117,400	85,700	[illegible]
No answer	—	493,200	76,300	98,200	[illegible]
Total	17,500	4,477,600	678,400	734,200	5,907,700

[a] Includes joint ownership.

[b] Includes partnerships, undivided estates, clubs, associations, etc.

(W) Less than 0.5 percent or fewer than 50 owners.

Table 27.—Estimated number of private owners who have not harvested timber and acres of commercial forest land owned, by reason for not harvesting and geographic unit, Pennsylvania, 1978

Reason for not harvesting	Western		Allegheny		North Central		Southwestern		Northeastern	
	Number	*Percent*	*Number*	*Percent*	*Number*	*Percent*	*Number*	*Percent*	*Number*	*Percent*
					NONHARVESTERS					
Timber immature	13,000	14	6,900	27	17,200	42	2,600	6	6,100	16
No market	300	W	—	—	—	—	300	1	—	—
Price too low	1,300	2	100	W	800	2	800	2	—	—
Destroy hunting	3,900	4	400	2	2,600	6	500	1	200	W
Selling the land	300	W	—	—	200	W	W	W	600	1
Ruin scenery	10,100	11	3,000	11	5,000	12	1,200	3	23,500	61
Land in estate	—	—	—	—	300	1	W	W	100	W
Distrust loggers	900	1	200	1	500	1	300	1	W	W
Opposed to harvest	1,700	2	400	2	—	—	3,200	8	1,900	5
Poor Quality	2,000	2	—	—	3,000	7	400	1	400	1
Low volume	12,900	14	2,300	9	1,500	4	1,100	3	1,400	4
Fire hazard	—	—	—	—	—	—	—	—	—	—
Insufficient area	25,600	27	3,500	14	6,500	16	2,400	6	300	1
Other	16,300	17	2,400	10	1,300	3	4,600	12	1,400	4
No answer	5,700	6	6,100	24	2,300	6	22,100	56	2,700	7
Total	94,000	100	25,300	100	41,200	100	39,500	100	38,600	100
					ACRES OWNED					
Timber immature	365,900	26	148,000	27	258,800	29	209,300	32	109,100	18
No market	12,800	1	—	—	—	—	19,000	3	—	—
Price too low	59,200	4	9,100	2	43,200	5	19,000	3	—	—
Destroy hunting	127,800	9	27,400	5	64,700	7	28,600	4	18,200	3
Selling the land	51,100	4	—	—	10,700	1	9,500	1	45,500	8
Ruin scenery	268,400	19	93,800	17	86,200	10	66,600	10	145,500	24
Land in estate	—	—	—	—	25,900	3	9,500	1	18,200	3
Distrust loggers	20,800	1	26,300	5	21,500	2	28,600	4	9,100	2
Opposed to harvest	38,300	3	11,900	2	—	—	19,000	3	36,400	6
Poor quality	25,600	2	—	—	41,000	5	28,600	4	27,300	4
Low volume	102,200	7	44,600	8	43,200	5	19,000	3	24,200	4
Fire hazard	—	—	—	—	—	—	—	—	—	—
Insufficient area	25,600	2	17,100	3	21,600	2	9,500	1	9,100	2
Other	212,500	15	105,700	20	133,800	15	95,000	15	100,100	17
No answer	97,500	7	58,400	11	140,200	16	104,600	16	54,900	9
Total	1,407,700	100	542,300	100	890,800	100	665,800	100	597,600	100

(continued)

Table 27. — continued

Reason for not harvesting	Pocono		Southeastern		South Central		State total	
	Number	*Percent*	*Number*	*Percent*	*Number*	*Percent*	*Number*	*Percent*
				NONHARVESTERS				
Timber immature	2,100	7	10,500	17	4,600	13	63,000	17
No market	100	W	1,200	2	—	—	1,900	1
Price too low	100	W	—	—	1,000	3	4,100	1
Destroy hunting	2,600	9	2,400	4	14,700	40	27,300	7
Selling the land	3,300	11	2,100	3	1,000	3	7,500	2
Ruin scenery	11,800	40	15,300	24	7,400	20	77,300	21
Land in estate	700	2	200	W	200	1	1,500	W
Distrust loggers	—	—	200	W	—	—	2,100	1
Opposed to harvest	—	—	200	W	100	W	7,500	2
Poor quality	300	1	2,800	5	100	W	9,000	3
Low volume	600	2	8,700	14	100	W	28,600	8
Fire hazard	200	1	—	—	—	—	200	W
Insufficient area	1,000	3	8,200	13	1,500	4	49,000	13
Other	1,000	3	9,300	15	4,800	13	41,100	11
No answer	6,100	21	1,600	3	900	3	47,500	13
Total	29,900	100	62,700	100	36,400	100	367,600	100
	Number	*Percent*	*Number*	*Percent*	*Number*	*Percent*	*Number*	*Percent*
				ACRES OWNED				
Timber immature	115,000	14	78,700	15	178,600	38	1,463,400	25
No market	20,700	3	16,200	3	—	—	68,700	1
Price too low	10,400	1	—	—	47,800	10	188,700	3
Destroy hunting	82,900	10	24,100	5	52,500	11	426,200	7
Selling the land	114,000	14	32,300	6	10,500	2	273,600	5
Ruin scenery	115,000	14	112,900	22	37,800	8	926,200	16
Land in estate	31,100	4	8,100	2	10,500	2	103,300	2
Distrust loggers	—	—	8,100	2	—	—	114,400	2
Opposed to harvest	—	—	8,100	2	10,500	2	124,200	2
Poor quality	32,100	4	24,100	5	21,000	5	199,700	3
Low volume	20,700	3	56,400	11	10,500	2	320,800	5
Fire hazard	10,400	1	—	—	—	—	10,400	W
Insufficient area	10,400	1	40,300	7	21,000	5	154,600	3
Other	93,200	11	62,600	12	63,000	13	865,900	15
No answer	159,500	20	42,100	8	10,500	2	667,700	11
Total	815,400	100	514,000	100	474,200	100	5,907,800	100

(W) Less than 0.5 percent or fewer than 50 owners.

Table 28.—Estimated number of private owners and acres of commercial forest land owned, by expected time of future harvest and by harvesters and nonharvesters, Pennsylvania, 1978

Expected time of future harvest	Private owners		Acres owned	
	Number	*Percent*	*Number*	*Percent*
		HARVESTERS		
Next 5 years	17,300	4	2,611,300	21
5-10 years	5,600	1	428,500	4
Indefinite	50,000	10	2,549,500	20
Never	33,900	7	549,200	5
No answer	15,700	3	406,500	3
Total	122,500	25	6,545,000	53
		NONHARVESTERS		
Next 5 years	11,500	2	263,600	2
5-10 years	4,400	1	285,400	2
Indefinite	117,600	24	2,865,900	23
Never	204,800	42	2,024,600	16
No answer	29,300	6	468,300	4
Total	367,600	75	5,907,800	47
		ALL PRIVATE OWNERS		
Next 5 years	28,800	6	2,874,900	23
5-10 years	10,000	2	713,900	6
Indefinite	167,600	34	5,415,400	43
Never	238,700	49	2,573,800	21
No answer	45,000	9	874,800	7
Total	490,100	100	12,452,800	100

Table 29.—Estimated number of private owners and acres of commercial forest land owned, by expected time of future harvest and by harvesters and nonharvesters, Western Unit, Pennsylvania, 1978

Expected time of future harvest	Private owners		Acres owned	
	Number	*Percent*	*Number*	*Percent*
		HARVESTERS		
Next 5 years	5,500	4	204,200	8
5-10 years	2,400	2	89,500	4
Indefinite	12,900	11	562,800	23
Never	7,000	6	135,800	6
No answer	400	W	25,500	1
Total	28,200	23	1,017,800	42
		NONHARVESTERS		
Next 5 years	1,100	1	63,900	3
5-10 years	800	1	63,900	3
Indefinite	33,300	27	736,400	30
Never	54,100	44	484,300	20
No answer	4,700	4	59,200	2
Total	94,000	77	1,407,700	58
		ALL PRIVATE OWNERS		
Next 5 years	6,600	5	268,100	11
5-10 years	3,200	3	153,400	7
Indefinite	46,200	38	1,299,200	53
Never	61,100	50	620,100	26
No answer	5,100	4	84,700	3
Total	122,200	100	2,425,500	100

(W) Less than 0.5 percent or fewer than 50 owners.

Table 30.—Estimated number of private owners and acres of commercial forest land owned, by expected time of future harvest and by harvesters and nonharvesters, Allegheny Unit, Pennsylvania, 1978

Expected time of future harvest	Private owners		Acres owned	
	Number	*Percent*	*Number*	*Percent*
		HARVESTERS		
Next 5 years	1,100	3	942,700	49
5-10 years	1,500	4	84,700	4
Indefinite	5,300	15	257,800	14
Never	1,400	4	34,200	2
No answer	500	2	56,400	3
Total	9,800	28	1,375,800	72
		NONHARVESTERS		
Next 5 years	800	2	34,300	2
5-10 years	900	3	51,500	3
Indefinite	3,100	9	218,300	11
Never	15,900	45	180,900	9
No answer	4,600	13	57,300	3
Total	25,300	72	542,300	28
		ALL PRIVATE OWNERS		
Next 5 years	1,900	5	977,000	51
5-10 years	2,400	7	136,200	7
Indefinite	8,400	24	476,100	25
Never	17,300	49	215,100	11
No answer	5,100	15	113,700	6
Total	35,100	100	1,918,100	100

Table 31.—Estimated number of private owners and acres of commercial forest land owned, by expected time of future harvest and by harvesters and nonharvesters, North Central Unit, Pennsylvania, 1978

Expected time of future harvest	Private owners		Acres owned	
	Number	*Percent*	*Number*	*Percent*
		HARVESTERS		
Next 5 years	2,000	4	605,900	29
5-10 years	200	W	43,100	2
Indefinite	8,000	15	440,300	20
Never	3,100	6	53,900	3
No answer	100	W	53,900	3
Total	13,400	25	1,197,100	57
		NONHARVESTERS		
Next 5 years	5,500	10	43,100	2
5-10 years	300	1	43,100	2
Indefinite	13,400	24	455,100	22
Never	20,400	37	241,600	12
No answer	1,600	3	107,900	5
Total	41,200	75	890,800	43
		ALL PRIVATE OWNERS		
Next 5 years	7,500	14	649,000	31
5-10 years	500	1	86,200	4
Indefinite	21,400	39	895,400	42
Never	23,500	43	295,500	15
No answer	1,700	3	161,800	8
Total	54,600	100	2,087,900	100

(W) Less than 0.5 percent or fewer than 50 owners.

Table 32.—Estimated number of private owners and acres of commercial forest land owned, by expected time of future harvest and by harvesters and nonharvesters, Southwestern Unit, Pennsylvania, 1978

Expected time of future harvest	Private owners		Acres owned	
	Number	*Percent*	*Number*	*Percent*
		HARVESTERS		
Next 5 years	800	2	186,100	14
5-10 years	200	W	76,100	6
Indefinite	4,100	8	306,100	23
Never	400	1	38,100	3
No answer	5,200	10	57,100	4
Total	10,700	21	663,500	50
		NONHARVESTERS		
Next 5 years	100	W	28,500	2
5-10 years	500	1	47,600	3
Indefinite	11,400	23	380,400	29
Never	16,400	33	142,700	11
No answer	11,100	22	66,600	5
Total	39,500	79	665,800	50
		ALL PRIVATE OWNERS		
Next 5 years	900	2	214,600	16
5-10 years	700	1	123,700	9
Indefinite	15,500	31	686,500	52
Never	16,800	34	180,800	14
No answer	16,300	32	123,700	9
Total	50,200	100	1,329,300	100

(W) Less than 0.5 percent or fewer than 50 owners.

Table 33.—Estimated number of private owners and acres of commercial forest land owned, by expected time of future harvest and by harvesters and nonharvesters, Northeastern Unit, Pennsylvania, 1978

Expected time of future harvest	Private owners		Acres owned	
	Number	*Percent*	*Number*	*Percent*
		HARVESTERS		
Next 5 years	700	1	151,700	12
5-10 years	400	1	36,400	3
Indefinite	4,100	8	343,100	28
Never	7,000	13	63,700	5
No answer	800	2	45,500	4
Total	13,000	25	640,400	52
		NONHARVESTERS		
Next 5 years	100	W	9,100	1
5-10 years	800	2	27,300	2
Indefinite	18,500	36	309,300	25
Never	18,600	36	233,700	19
No answer	600	1	18,200	1
Total	38,600	75	597,600	48
		ALL PRIVATE OWNERS		
Next 5 years	800	1	160,800	13
5-10 years	1,200	3	63,700	5
Indefinite	22,600	44	652,400	53
Never	25,600	49	297,400	24
No answer	1,400	3	63,700	5
Total	51,600	100	1,238,000	100

(W) Less than 0.5 percent or fewer than 50 owners.

Table 34.—Estimated number of private owners and acres of commercial forest land owned, by expected time of future harvest and by harvesters and nonharvesters, Pocono Unit, Pennsylvania, 1978

Expected time of future harvest	Private owners		Acres owned	
	Number	*Percent*	*Number*	*Percent*
		HARVESTERS		
Next 5 years	300	1	193,500	14
5-10 years	100	W	32,500	2
Indefinite	4,600	12	221,400	16
Never	2,700	7	83,000	6
No answer	400	1	51,800	4
Total	8,100	21	582,200	42
		NONHARVESTERS		
Next 5 years	W	W	10,400	1
5-10 years	1,000	3	41,500	3
Indefinite	4,900	13	295,200	21
Never	23,100	61	354,300	25
No answer	900	2	114,000	8
Total	29,900	79	815,400	58
		ALL PRIVATE OWNERS		
Next 5 years	300	1	203,900	15
5-10 years	1,100	3	74,000	5
Indefinite	9,500	25	516,600	37
Never	25,800	68	437,300	31
No answer	1,300	3	165,800	12
Total	38,000	100	1,397,600	100

(W) Less than 0.5 percent or fewer than 50 owners.

Table 35.—Estimated number of private owners and acres of commercial forest land owned, by expected time of future harvest and by harvesters and nonharvesters, Southeastern Unit, Pennsylvania, 1978

Expected time of future harvest	Private owners		Acres owned	
	Number	*Percent*	*Number*	*Percent*
		HARVESTERS		
Next 5 years	4,300	5	135,500	15
5-10 years	600	1	24,200	3
Indefinite	3,600	4	96,700	11
Never	5,400	7	56,500	7
No answer	3,800	5	32,300	4
Total	17,700	22	345,200	40
		NONHARVESTERS		
Next 5 years	3,100	4	32,300	4
5-10 years	—	—	—	—
Indefinite	23,100	29	255,300	30
Never	30,700	38	202,300	23
No answer	5,800	7	24,100	3
Total	62,700	78	514,000	60
		ALL PRIVATE OWNERS		
Next 5 years	7,400	9	167,800	19
5-10 years	600	1	24,200	3
Indefinite	26,700	33	352,000	41
Never	36,100	45	258,800	30
No answer	9,600	12	56,400	7
Total	80,400	100	859,200	100

Table 36.—Estimated number of private owners and acres of commercial forest land owned, by expected time of future harvest and by harvesters and nonharvesters, South Central Unit, Pennsylvania, 1978

Expected time of future harvest	Private owners		Acres owned	
	Number	*Percent*	*Number*	*Percent*
		HARVESTERS		
Next 5 years	2,600	4	191,700	16
5-10 years	200	W	42,000	3
Indefinite	7,400	13	321,300	27
Never	6,900	12	84,000	7
No answer	4,500	8	84,000	7
Total	21,600	37	723,000	60
		NONHARVESTERS		
Next 5 years	800	2	42,000	3
5-10 years	100	W	10,500	1
Indefinite	9,900	17	215,900	18
Never	25,600	44	184,800	16
No answer	W	W	21,000	2
Total	36,400	63	474,200	40
		ALL PRIVATE OWNERS		
Next 5 years	3,400	6	233,700	19
5-10 years	300	W	52,500	W
Indefinite	17,300	30	537,200	45
Never	32,500	56	268,800	23
No answer	4,500	8	105,000	9
Total	58,000	100	1,197,200	100

(W) Less than 0.5 percent or fewer than 50 owners.

Table 37.—Estimated number of private owners and acres of commercial forest land owned, by size class and expected time of future harvest, Pennsylvania, 1978

Size class (acres)	Expected time of future harvest						No answer		Total	
	Next 10 years		Indefinite		Never					
	Number	*Percent*	*Number*	*Percent*	*Number*	*Percent*	*Number*	*Percent*	*Number*	*Percent*
					OWNERS					
1-9	13,000	3	74,700	15	187,700	38	34,500	7	309,900	63
10-19	4,000	1	23,500	5	25,200	5	1,500	W	54,200	11
20-49	12,200	2	39,900	8	14,800	4	4,300	1	71,200	15
50-99	4,500	1	17,400	3	8,000	2	2,900	1	32,800	7
100-199	3,200	1	8,700	2	2,200	W	1,300	W	15,400	3
200-499	1,200	W	2,900	1	700	W	400	W	5,200	1
500-999	300	W	300	W	100	W	100	W	800	W
1,000+	400	W	200	W	W	W	W	W	600	W
Total	38,800	8	167,600	34	238,700	49	45,000	9	490,100	100
					ACRES OWNED					
1-9	51,100	W	283,600	2	593,200	5	100,100	1	1,028,000	8
10-19	53,200	1	317,100	3	298,000	2	17,200	W	685,500	6
20-49	354,900	3	1,214,600	9	477,300	4	126,600	1	2,173,400	17
50-99	299,500	2	1,153,900	9	518,900	4	190,700	2	2,163,000	17
100-199	433,700	4	1,088,700	9	281,300	2	164,400	1	1,968,100	16
200-499	362,100	3	783,700	6	203,100	2	99,700	1	1,448,600	12
500-999	184,200	1	198,900	2	93,800	1	52,400	W	529,300	4
1,000+	1,850,100	15	374,900	3	108,200	1	123,700	1	2,456,900	20
Total	3,588,800	29	5,415,400	43	2,573,800	21	874,800	7	12,452,800	100

(W) Less than 0.5 percent or fewer than 50 owners.

Table 38.—Estimated number of private owners who have harvested timber and acres of commercial forest land owned, by method of selecting timber and individual selecting timber, Pennsylvania, 1978

Method of selecting timber	Landowner	Forester	Buyer	Landowner and forester	Landowner and buyer	Other	No answer	Total
				HARVESTERS				
Selection	11,200	2,400	6,000	200	600	300	200	20,900
Diameter limit	9,600	1,000	15,200	200	4,000	800	W	30,800
Clearcutting	8,700	400	3,200	200	100	—	100	12,700
Land clearing	3,300	W	100	—	200	400	W	4,000
Other	10,000	—	800	100	W	100	100	11,100
Combination of methods	7,100	200	500	300	1,400	100	—	9,600
Don't know	2,100	—	6,100	—	400	500	100	9,200
No answer	1,400	100	500	—	—	—	22,200	24,200
Total	53,400	4,100	32,400	1,000	6,700	2,200	22,700	122,500
				ACRES OWNED				
Selection	475,700	1,091,600	229,700	32,100	40,900	59,600	31,100	1,960,700
Diameter limit	769,000	167,400	770,100	40,800	242,300	65,800	10,800	2,066,200
Clearcutting	316,000	87,700	115,500	30,700	9,500	—	8,100	567,500
Land clearing	118,300	12,800	20,300	—	19,400	10,500	10,800	192,100
Other	179,100	—	20,800	17,100	10,800	10,600	8,000	246,400
Combination of methods	206,200	28,900	31,500	30,300	8,100	18,600	—	323,600
Don't know	150,700	—	183,700	—	37,000	41,700	20,300	433,400
No answer	52,600	9,400	44,300	—	—	—	648,800	755,100
Total	2,267,600	1,397,800	1,415,900	151,000	368,000	206,800	737,900	6,545,000

(W) Less than 0.5 percent or fewer than 50 owners.

Table 39.—Estimated number of private owners and acres of commercial forest land owned, by timber product harvested, forest industry, and nonindustrial private land owners (size class of ownership), Pennsylvania, 1978

Timber product	Forest industry		Nonindustrial private landowners						Total	
			1-49 acres		50-499 acres		500+ acres			
	Number	*Percent*	*Number*	*Percent*	*Number*	*Percent*	*Number*	*Percent*	*Number*	*Percent*
					Owners					
Sawlogs	500	83	54,500	56	17,500	71	700	88	73,200	60
Veneer	100	17	4,200	4	2,400	10	100	12	6,800	6
Pulpwood	400	67	8,400	9	5,700	23	300	38	14,800	12
Turnery bolts	—	—	900	1	200	1	W	W	1,100	1
Posts, poles, pilings	W	W	15,600	16	3,600	15	100	12	19,300	16
Mine timbers	100	17	4,800	5	1,500	6	W	W	6,400	5
Christmas trees	W	W	4,700	5	1,200	5	W	W	5,900	5
Other	W	W	15,800	16	2,500	10	W	W	18,300	15
Don't know	—	—	3,100	3	1,000	4	W	W	4,100	3
No answer	100	17	19,200	20	1,900	8	100	12	21,300	17
Total[a]	600	100	96,600	100	24,500	100	800	100	122,500	100
					ACRES OWNED					
Sawlogs	885,600	94	883,100	64	2,004,200	75	1,307,200	85	5,080,100	78
Veneer	684,800	72	118,400	9	309,100	12	422,100	27	1,534,400	23
Pulpwood	696,500	74	113,200	8	690,400	26	708,000	46	2,208,100	34
Turnery bolts	—	—	8,000	1	30,700	1	121,700	8	160,400	2
Posts, poles, pilings	257,700	27	248,800	18	369,500	14	303,200	20	1,179,200	18
Mine timbers	52,100	6	68,600	5	185,600	7	162,900	11	469,200	7
Christmas trees	47,400	5	44,800	3	141,400	5	54,000	4	287,600	4
Other	194,300	21	155,900	11	205,900	8	45,600	3	601,700	9
Don't know	—	—	69,000	5	101,100	4	9,500	1	179,600	3
No answer	60,900	6	178,900	13	213,600	8	190,200	12	643,600	10
Total[a]	946,500	100	1,377,100	100	2,680,500	100	1,540,900	100	6,545,000	100

[a]Items do not add to totals because some owners harvested more than one product.

(W) Less than 0.5 percent or fewer than 50 owners.

Table 40.—Estimated number of private owners and acres of commercial forest land owned, by timber product harvested and geographic unit, Pennsylvania, 1978

Timber product	Western		Allegheny		North Central		Southwestern		Northeastern	
	Number	*Percent*	*Number*	*Percent*	*Number*	*Percent*	*Number*	*Percent*	*Number*	*Percent*
					OWNERS					
Sawlogs	16,700	59	6,400	65	10,200	76	8,300	78	5,000	38
Veneer	2,100	7	1,700	17	300	2	1,000	9	400	3
Pulpwoods	800	3	1,000	10	1,200	9	5,900	55	1,600	12
Turnery bolts	—	—	900	9	200	1	—	—	W	W
Posts, poles, pilings	11,400	40	1,800	18	200	1	1,400	13	1,300	10
Mine timbers	2,500	9	—	—	W	W	1,100	10	200	2
Christmas trees	500	2	W	W	600	4	300	3	200	2
Other	6,100	22	600	6	1,000	7	100	1	3,300	25
Don't know	500	2	—	—	1,700	13	800	7	W	W
No answer	2,300	8	2,000	20	300	2	500	5	4,100	31
Total[a]	28,200	100	9,800	100	13,400	100	10,700	100	13,000	100
					ACRES OWNED					
Sawlogs	752,600	74	1,244,500	90	996,500	83	437,600	66	473,100	74
Veneer	153,300	15	725,400	53	215,700	18	199,800	30	69,700	11
Pulpwood	92,800	9	720,700	52	485,300	41	180,700	27	197,100	31
Turnery bolts	—	—	119,000	9	32,300	3	—	—	9,100	1
Posts, poles, pilings	284,500	28	349,800	25	86,300	7	142,700	22	87,900	14
Mine timbers	115,000	11	—	—	53,900	5	171,200	26	27,300	4
Christmas trees	67,200	7	9,100	1	47,400	4	38,100	6	6,000	1
Other	102,300	10	256,500	19	53,900	5	9,400	1	45,500	7
Don't know	25,500	2	—	—	47,400	4	47,600	7	9,100	1
No answer	91,000	9	75,900	5	73,400	6	102,300	16	73,400	12
Total[a]	1,017,800	100	1,375,800	100	1,197,100	100	663,500	100	640,400	100

(continued)

Table 40. — continued

Timber product	Pocono		Southeastern		South Central		State total	
	Number	*Percent*	*Number*	*Percent*	*Number*	*Percent*	*Number*	*Percent*
					OWNERS			
Sawlogs	5,200	64	11,500	65	9,900	46	73,200	60
Veneer	100	1	900	5	300	1	6,800	6
Pulpwood	500	6	1,300	7	2,500	12	14,800	12
Turnery bolts	—	—	—	—	—	—	1,100	1
Posts, poles, pilings	900	11	600	3	1,700	8	19,300	16
Mine timbers	2,600	32	W	W	W	W	6,400	5
Christmas trees	300	4	400	2	3,600	17	5,900	5
Other	1,100	14	4,700	27	1,400	6	18,300	15
Don't know	300	4	100	1	700	3	4,100	3
No answer	1,900	23	3,700	21	6,500	30	21,300	17
Total[a]	8,100	100	17,700	100	21,600	100	122,500	100
					ACRES OWNED			
Sawlogs	406,400	70	262,700	76	506,700	70	5,080,100	78
Veneer	51,800	9	53,100	15	65,600	9	1,534,400	23
Pulpwood	168,000	29	77,300	22	286,200	40	2,208,100	34
Turnery bolts	—	—	—	—	—	—	160,400	2
Posts, poles, pilings	41,400	7	37,000	11	149,600	21	1,179,200	18
Mine timbers	62,200	11	8,100	2	31,500	4	469,200	7
Christmas trees	51,800	9	12,800	4	55,200	8	287,600	4
Other	51,800	9	40,300	12	42,000	6	601,700	9
Don't know	10,400	2	8,100	2	31,500	5	179,600	3
No answer	113,700	19	34,100	10	79,800	11	643,600	10
Total[a]	582,200	100	345,200	100	723,000	100	6,545,000	100

[a]Items do not add to total because some owners harvested more than one product.

(W) Less than 0.5 percent or fewer than 50 owners.

Table 41.—Estimated number of private owners and acres of commercial forest land owned, by agency that owners would contact for forestry assistance, Pennsylvania, 1978

Agency	Western		Allegheny		North Central		Southwestern		Northeastern	
	Number	*Percent*	*Number*	*Percent*	*Number*	*Percent*	*Number*	*Percent*	*Number*	*Percent*
					OWNERS					
State forestry	14,900	12	3,800	11	13,800	25	2,600	5	5,400	10
Soil Conservation Service	2,900	2	—	—	W	W	100	W	1,100	2
Forest Service	4,700	4	1,900	5	400	1	100	W	300	1
Agricultural Stabilization and Conservation Service	17,400	14	—	—	W	W	—	—	500	1
Consultant or industry forester	W	W	2,000	6	W	W	300	1	700	1
Extension service	2,000	2	600	2	500	1	100	W	3,400	7
Other	800	1	1,100	3	500	1	100	W	W	W
Don't know	46,100	38	14,300	41	27,100	50	22,600	45	32,000	62
No answer	33,400	27	11,400	32	12,300	22	24,300	49	8,200	16
Total	122,200	100	35,100	100	54,600	100	50,200	100	51,600	100
					ACRES OWNED					
State forestry	383,400	16	430,500	22	407,700	19	218,800	16	230,300	17
Soil Conservation Service	72,000	3	—	—	32,300	1	28,500	2	36,400	3
Forest Service	76,700	3	170,600	9	75,500	4	9,500	1	45,500	4
Agricultural Stabilization and Conservation Service	92,800	3	—	—	10,800	1	—	—	45,500	4
Consultant or industry forester	38,300	2	312,900	16	58,200	3	47,600	4	72,800	6
Extension Service	76,700	3	22,100	1	79,800	4	38,100	3	42,400	4
Other	38,300	2	88,000	5	151,000	7	9,500	1	9,100	1
Don't know	1,263,800	52	500,200	26	828,200	40	542,200	41	491,200	40
No answer	383,500	16	393,800	21	444,400	21	435,100	32	264,800	21
Total	2,425,500	100	1,918,100	100	2,087,900	100	1,329,300	100	1,238,000	100

(continued)

Table 41. — continued

Agency	Pocono		Southeastern		South Central		State total	
	Number	*Percent*	*Number*	*Percent*	*Number*	*Percent*	*Number*	*Percent*
				OWNERS				
State forestry	3,900	10	15,000	19	7,600	13	67,000	14
Soil Conservation Service	300	1	600	1	3,700	6	8,700	2
Forest Service	—	—	—	—	200	W	7,600	1
Agricultural Stabilization and Conservation Service	200	1	—	—	—	—	18,100	4
Consultant or industry forester	400	1	W	W	100	W	3,500	1
Extension service	10,600	28	1,800	2	2,200	4	21,200	4
Other	200	1	400	W	W	W	3,100	W
Don't know	14,100	37	49,100	61	34,500	60	239,800	49
No answer	8,300	21	13,500	17	9,700	17	121,100	25
Total	38,000	100	80,400	100	58,000	100	490,100	100
				ACRES OWNED				
State forestry	333,800	24	169,300	20	220,600	18	2,394,400	19
Soil Conservation Service	41,500	3	8,100	1	31,500	3	250,300	2
Forest Service	—	—	—	—	10,500	1	388,300	3
Agricultural Stabilization and Conservation Service	31,100	2	—	—	—	—	180,200	1
Consultant or industry forester	51,800	4	37,000	4	92,800	8	711,400	6
Extension Service	31,100	2	40,300	5	63,000	5	393,500	3
Other	10,400	1	16,100	2	10,500	1	332,900	3
Don't know	479,700	34	439,700	51	652,700	54	5,197,700	42
No answer	418,200	30	148,700	17	115,600	10	2,604,100	21
Total	1,397,600	100	859,200	100	1,197,200	100	12,452,800	100

(W) Less than 0.5 percent or fewer than 50 owners.

Table 42.—Estimated number of private owners who have received forestry assistance and acres of commercial forest land owned, by type of assistance, Pennsylvania, 1978

Type of assistance	Assisted owners		Acres owned	
	Number	*Percent*	*Number*	*Percent*
Timber marking	5,000	1	366,600	3
Timber stand improvement	3,200	1	269,700	2
Tree planting	2,000	W	128,300	1
Timber sales administration	200	W	176,500	1
Insect and disease control	400	W	37,500	W
Timber evaluation	2,400	1	208,000	2
Surveying	1,400	W	113,100	1
General forest management	9,400	2	1,063,200	9
Other	600	W	101,800	1
Service not specified	5,000	1	783,400	6
Total receiving assistance[a]	28,100	6	2,934,500	24

[a] Individual items do not add to total because some owners have received more than one type of assistance.
(W) Less than 0.5 percent or fewer than 50 owners.

Table 43.—Estimated number of private owners and acres of commercial forest land owned, by type of public use permitted, Pennsylvania, 1978

Type of public use	Private owners		Acres owned	
	Number	*Percent*	*Number*	*Percent*
Hiking	95,800	20	5,094,400	41
Picnicking	55,900	11	3,149,900	25
Camping	44,500	9	2,296,000	18
Fishing	24,300	5	2,793,500	22
Hunting	231,200	47	7,323,500	59
Snow mobiling	81,900	17	3,513,000	28
Other	8,400	2	649,500	5
All types[a]	256,500	52	8,270,200	66
Public use not permitted	167,800	34	3,219,700	26
No answer	65,800	14	962,900	8
Total	490,100	100	12,452,800	100

[a] Columns do not add to total because some owners permit more than one type of public use.

Table 44.—Estimated number of private owners and acres of commercial forest land owned, by availability for public recreational use and geographic unit, Pennsylvania, 1978

Public Use	Western		Allegheny		North Central		Southwestern		Northeastern	
	Number	*Percent*	*Number*	*Percent*	*Number*	*Percent*	*Number*	*Percent*	*Number*	*Percent*
					OWNERS					
Permitted	79,800	65	25,400	72	35,500	65	17,200	34	20,800	40
Not permitted	34,200	28	4,400	13	12,800	23	12,000	24	29,000	56
No answer	8,200	7	5,300	15	6,300	12	21,000	42	1,800	4
Total	122,200	100	35,100	100	54,600	100	50,200	100	51,600	100
					ACRES OWNED					
Permitted	1,714,400	71	1,546,800	81	1,386,900	66	894,000	67	721,600	58
Not permitted	599,200	25	218,500	11	573,700	28	256,900	19	470,000	38
No answer	111,900	4	152,800	8	127,300	6	178,400	14	46,400	4
Total	2,425,500	100	1,918,100	100	2,087,900	100	1,329,300	100	1,238,000	100

Public use	Pocono		Southeastern		South Central		State total	
	Number	*Percent*	*Number*	*Percent*	*Number*	*Percent*	*Number*	*Percent*
					OWNERS			
Permitted	13,400	35	27,200	34	37,200	64	256,500	52
Not permitted	20,100	53	40,900	51	14,400	25	167,800	34
No answer	4,500	12	12,300	15	6,400	11	65,800	14
Total	38,000	100	80,400	100	58,000	100	490,100	100
					ACRES OWNED			
Permitted	645,700	46	438,300	51	922,500	77	8,270,200	66
Not permitted	591,700	42	320,600	37	189,100	16	3,219,700	26
No answer	160,200	12	100,300	12	85,600	7	962,900	8
Total	1,397,600	100	859,200	100	1,197,200	100	12,452,800	100

Table 45.—Estimated number of private owners and acres of commercial forest land owned, by reason for posting and geographic unit, Pennsylvania, 1978

Reason for posting	Western		Allegheny		North Central		Southwestern		Northeastern	
	Number	*Percent*	*Number*	*Percent*	*Number*	*Percent*	*Number*	*Percent*	*Number*	*Percent*
					OWNERS					
Abuse of property	2,200	2	600	2	700	1	1,000	2	3,600	7
Safety	15,300	12	3,000	9	300	1	1,500	3	500	1
Liability	600	W	100	W	100	W	—	—	100	W
Control access	2,100	2	1,400	4	6,400	12	300	1	2,400	5
Control hunting	10,400	9	800	2	8,800	16	500	1	11,600	22
Reason not specified	500	W	300	1	4,600	8	600	1	9,200	18
All reasons	31,100	25	6,200	18	20,900	38	3,900	8	27,400	53
Land not posted	85,200	70	23,800	68	33,100	61	25,400	50	23,000	45
No answer	5,900	5	5,100	14	600	1	20,900	42	1,200	2
Total	122,200	100	35,100	100	54,600	100	50,200	100	51,600	100
					ACRES OWNED					
Abuse of property	89,500	4	57,600	3	118,600	6	95,100	7	172,800	14
Safety	140,600	6	127,000	7	53,900	2	57,100	4	18,200	1
Liability	25,600	1	158,400	8	75,500	4	—	—	9,100	1
Control access	110,300	4	105,100	6	192,000	9	28,500	2	188,000	15
Control hunting	110,300	4	138,400	7	183,400	9	66,600	5	197,000	16
Reason not specified	38,400	2	43,400	2	53,900	2	76,100	6	63,700	5
All reasons	514,700	21	629,900	33	677,300	32	323,400	24	648,800	52
Land not posted	1,811,800	75	1,151,500	60	1,304,900	63	837,000	63	488,200	40
No answer	99,000	4	136,700	7	105,700	5	168,900	13	101,000	8
Total	2,425,500	100	1,918,100	100	2,087,900	100	1,329,300	100	1,238,000	100

(continued)

Table 45. — continued

Reason for posting	Pocono		Southeastern		South Central		State total	
	Number	*Percent*	*Number*	*Percent*	*Number*	*Percent*	*Number*	*Percent*
				OWNERS				
Abuse of property	3,600	10	11,000	14	3,500	6	26,200	5
Safety	500	1	6,200	8	6,900	12	34,200	7
Liability	W	W	100	W	—	—	1,000	W
Control access	2,600	7	2,700	3	300	W	18,200	4
Control hunting	11,600	31	19,000	23	1,000	2	63,700	13
Reason not specified	2,000	5	3,800	5	500	1	21,500	5
All reasons	20,300	54	42,800	53	12,200	21	164,800	34
Land not posted	13,800	36	30,400	38	45,000	78	279,700	57
No answer	3,900	10	7,200	9	800	1	45,600	9
Total	38,000	100	80,400	100	58,000	100	490,100	100
				ACRES OWNED				
Abuse of property	103,600	8	86,800	10	73,600	6	797,600	6
Safety	62,200	4	64,500	7	37,700	3	561,200	5
Liability	33,300	2	16,100	2	—	—	318,000	3
Control access	332,600	24	48,400	6	52,500	4	1,057,400	8
Control hunting	124,300	9	127,100	15	126,000	11	1,073,100	9
Reason not specified	62,200	4	40,300	5	42,000	4	420,000	3
All reasons	718,200	51	383,200	45	331,800	28	4,227,300	34
Land not posted	561,600	40	432,100	50	827,600	69	7,414,700	60
No answer	117,800	9	43,900	5	37,800	3	810,800	6
Total	1,397,600	100	859,200	100	1,197,200	100	12,452,800	100

(W) Less than 0.5 percent or fewer than 50 owners.

Table 46.—Estimated number of individual owners and acres of commercial forest land owned, by conservation-related organization membership, Pennsylvania, 1978

Organization	Individual owners		Acres owned	
	Number	*Percent*	*Number*	*Percent*
American Forestry Association	3,600	1	253,100	3
Audubon Society	12,400	3	410,200	5
Natural History Society	11,900	3	92,600	1
National Wildlife Federation	35,500	8	806,500	9
A Sportsman's Club	28,200	7	1,008,100	12
A Garden Club	3,500	1	184,200	2
A Farmer's Organization	41,900	10	957,800	11
The Sierra Club	700	W	70,200	1
American Tree Farm Program	1,400	W	192,100	2
Other	12,300	3	788,800	9
Organization member	105,700	25	2,739,900	32
Nonmember	258,100	61	5,254,700	61
No answer	58,800	14	563,400	7
Total[a]	422,600	100	8,558,000	100

[a]Columns do not add to total because some owners belong to more than one organization.
(W) Less than 0.5 percent or fewer than 50 owners.

Table 47.—Estimated number of individual owners and acres of commercial forest land owned, by conservation-oriented publications they receive, Pennsylvania, 1978

Publication	Individual owners		Acres owned	
	Number	*Percent*	*Number*	*Percent*
American Forests	3,600	1	253,100	3
National Wildlife	35,500	8	806,500	9
Pennsylvania Forests	5,700	1	197,500	2
Pennsylvania Game News	104,100	25	2,786,600	33
Audubon	12,400	3	410,200	5
Field and Stream	41,100	10	381,500	4
Sports Afield	20,400	5	402,200	5
Agway Cooperator	35,300	8	387,400	5
Pennsylvania Farmer	80,900	19	341,700	4
Other	84,100	20	2,092,300	24
Subscriber	224,800	53	5,386,600	63
Nonsubscriber	140,000	33	2,618,500	31
No answer	57,800	14	552,900	6
Total[a]	422,600	100	8,558,000	100

[a]Columns do not add to total because some owners subscribe to more than one publication.

Table 48.—Estimated number of individual owners and acres of commercial forest land owned, by statement and response to statement in conservation quiz, Pennsylvania, 1978

Statement number	Correct answer	Percent correct	Response to statement				All responses
			True	False	Don't know	No answer	
			INDIVIDUAL OWNERS				
1	True	80	339,900	5,300	24,000	53,400	422,600
2	False	58	78,100	247,000	31,800	65,700	422,600
3	True	54	229,200	14,200	107,700	71,500	422,600
4	False	34	127,200	142,200	83,700	69,500	422,600
5	False	66	9,400	279,700	64,400	69,100	422,600
6	False	9	238,200	37,400	67,700	79,300	422,600
7	False	21	159,000	87,500	106,700	69,400	422,600
8	True	30	128,600	7,300	214,500	72,200	422,600
9	False	36	135,300	150,700	68,300	68,300	422,600
10	True	41	174,300	11,500	169,300	67,500	422,600
			ACRES OWNED				
1	True	85	7,266,900	46,400	437,300	807,400	8,558,000
2	False	67	1,165,400	5,750,200	735,500	906,900	8,558,000
3	True	60	5,176,700	162,400	2,119,600	1,099,300	8,558,000
4	False	38	2,415,300	3,253,600	1,875,900	1,013,200	8,558,000
5	False	73	120,100	6,212,600	1,215,700	1,009,600	8,558,000
6	False	14	5,101,500	1,240,900	1,258,300	957,300	8,558,000
7	False	22	3,273,000	1,850,500	2,335,800	1,098,700	8,558,000
8	True	32	2,719,900	139,600	4,471,800	1,226,700	8,558,000
9	False	42	2,766,800	3,587,600	1,214,000	989,600	8,558,000
10	True	52	4,442,300	402,800	2,746,300	966,600	8,558,000

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- 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.
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- Kingston, Pennsylvania.
- Morgantown, West Virginia, in cooperation with West Virginia University, Morgantown.
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- Parsons, West Virginia.
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- University Park, Pennsylvania, in cooperation with the Pennsylvania State University.
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