

Does New Large Private Landownership and Their Management Priorities Influence Public Access in the Northern Forest?

John J. Daigle, Lindsay Utley, Lisa C. Chase,
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ABSTRACT

The Northern Forest in New York and the New England area and contains over 26 million ac, making it the largest contiguous forest area of the Midwest. Most of the forest land is privately owned and public access is a time-honored tradition in the region. Reintroducing public access may be hastened by recent acceleration in land use change across the region. We surveyed over 1,000 acres in the forest area and found that the more private landowners are, the more likely they are to restrict access. The data, however, also indicate a positive relationship between landowner management objectives and recreational activities. Results indicate that timber/forestry companies and Real Estate Agents allow more public access for additional wildlife activities, hunting and fishing, and all-terrain vehicle riding activities than non-timber/forestry companies and Real Estate Agents. Results also indicate that landowners in the Northern Forest generally maintain the tradition of free public access to their land.

Keywords: individual landowners, private landowners, land use, landowner motivation, recreational activities, recreational access

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Table 1. Principal components factor analysis and reduction of many outdoor activities into broadly defined classifications of outdoor recreation activities.

Dimension	Factor loading	Landowners allowing activity (%)	Cronbach's alpha
Nonmotorized			0.95
Hiking	0.86	92	
Snowshoeing	0.81	95	
Wildlife viewing	0.85	93	
Bird watching	0.87	89	
Cross country skiing	0.80	92	
Traditional wildlife			0.89
Hunting	0.84	89	
Fishing	0.84	88	
Trapping	0.83	72	
Motorized and other trail riding			0.76
Snowmobiling	0.72	80	
ATV/OHV riding	0.47	42	
Mountain biking	0.59	57	
Horseback riding	0.58	53	
Boat and camping			0.77
Motor boating	0.63	41	
Canoe/kayak	0.72	66	
Camping	0.54	47	

Total number of respondents in the survey was 87 and 74 landowners indicated they permitted public access. ATV, all-terrain vehicle.

Table 2. Principal components factor analysis and reduction of many outcomes associated with allowing public access into broadly defined outcome dimensions.

Dimension	Factor loading	Landowners allowing activity (%)	Cronbach's alpha
Nonmotorized			0.95
Hiking	0.86	92	
Snowshoeing	0.81	95	
Wildlife viewing	0.85	93	
Bird watching	0.87	89	
Cross country skiing	0.80	92	
Traditional wildlife			0.89
Hunting	0.84	89	
Fishing	0.84	88	
Trapping	0.83	72	
Motorized and other trail riding			0.76
Snowmobiling	0.72	80	
ATV/OHV riding	0.47	42	
Mountain biking	0.59	57	
Horseback riding	0.58	53	
Boat and camping			0.77
Motor boating	0.63	41	
Canoe/kayak	0.72	66	
Camping	0.54	47	

ucts, agriculture, residence, recreation, nature protection, privacy, real estate investment, tax shelter, and others. Some landowners (10) gave equal priority to different land uses (e.g., timber/forest products and real estate investment both listed as a top priority to land-management priorities were excluded from the analyses. Figure 2 illustrates the 57 survey participants who listed distinct first priority. One-way analyses

Survey Results and Analysis

Of 114 large landowner surveys, 87 were returned, yielding a 76% return rate of those whom we were able to contact and they agreed to participate in the study. Private landowners who returned their questionnaires were compared with those who did not return their mail questionnaires on acres owned and location of property in the Northern Forest region. The number of acres owned was not significantly different between respondents and nonrespondents. About one-half of the respondents (48%) and the nonrespondents (50%) owned between 1,000 and 5,000 ac, and the mean number of acres owned did not differ between the two groups (ANOVA, $P = 0.129$). There were also no significant differences between respondents and nonrespondents within each state ($F = 1.470$; 3 df; $P = 0.689$).

Most respondents from our study described their property as a large contiguous forest (76%); additional descriptions of their properties included agricultural area (11%) and other (13%). The total number of acres reportedly owned by the sample was 8,633,066. Parcel sizes among the sample ranged from 1,020 to 1,263,604 ac. Nearly one-half of them (49%) owned between 1,001 and 5,000 ac, although the mean property size was 99,230 ac. The 43 large landowners in the sample from Maine accounted for 8,216,650 ac, or 95%, of the total acreage in our survey. Additional acreage by state is as follows: 6 New Hampshire landowners accounted for 35,064 ac, New York's 18 landowners totaled 206,496 ac, and 20 large landowners in Vermont accounted for 174,856 ac. This is not necessarily reflective of the amount of land each state contributes to the Northern Forest. Rather, this reflects the heavier reliance on industrial forestry in Maine compared with the other three Northern Forest states.

The majority of large landowners (87%) allow public access and most of those who denied public access (13% and accounting for 159,517 ac) allow recreation only for exclusive use by clubs, e.g., charging a fee for hunting. All the large landowners in Maine and Vermont reported that they permit public access and 5 of 6 large landowners in New Hampshire do as well. New York was the anomaly of the Northern Forest states with 11 of 18 landowners denying public access. Most large landowners in the Northern Forest (76%) did not charge

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