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

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The No hen Foe an Ne Yok and hee Ne England a e and con ain o e 26 million ac, making i he la ge con ig o foe e a of he Mi i i, i. Mo of he foe land i i a el o ned and blic acce o i a e land i a ime-hono ed adi ion in he egion. Re iden fea hi adi ion of o en acce ma be hea ened b ecen accele a ion in land en e change ac o he egion. We we ed ho e ho o n 1,000 ac o mo e in he for a e egion and for nd ha ne e o ne e e no mo e likel o o hei land. The ea, ho o e, a co ela ion be een he o ne' land-managemen io i ie and ece a ional aci i ie e mi ed on he acel. Re I indica ed ha imbe/foe od c companie and Real E a e la e mo mo T allo ed mo e blic acce for adi ional ildlife aci i ie cha h n ing and hing, a ell a ail-iding aci i ie cha no mobiling and all-e ain we ehicle iding, han lando ne managing for ecea ion o for na e con eva ion. Re I al o indica ed ha ne lando ne in he No hen Foe c en I main ain he adi ion of fee blic acce o hei land.

Ke ords: ind ial ia e for e , ia e for e landone, land en e, landone moi a ion, o doo ec ea ion, ec ea ional acce

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

Dimension	Factor loading	Landowners allowing activity (%)	CronbachÕ 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 dePned outcome dimensions.

Survey Results and Analysis

Of 114 large landowner surveys, 87 were returned, yielding a 76% return rate of is 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 signibcantly 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 (ANOVAP, 0.129). There were also no signibcant differences between respondents and nonrespondents within each state²(1.470; 3 df: 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 YorkÕs 18 landowners totaled 206,496 ac, and 20 large landowners in Vermont accounted for 174,856 ac. This is not necessarily reßective of the amount of land each state contributes to the Northern Forest. Rather, this reßects the heavier reliance on industrial forestry in Maine compared with the other three Northern Forest states.

ucts, agriculture, residence, recreation, næriance (ANOVA) with TukeyÕs honestly. The majority of large landowners ture protection, privacy, real estate investignibcant differences test for multiple con(87%) allow public access and most of those ment, tax shelter, and others. Somearisons was used to examine relationships of denied public access (13% and aclandownersn(10) gave equal priority to between the three attitudes toward publicounting for 159,517 ac) allow recreation different land uses (e.g., timber/forest prodecess dimensions among landowner tenbus only for exclusive use by clubs, e.g., ucts and real estate investment both listedgas ups and land-management priorities. Etharging a fee for hunting. All the large land-Ò1Ó). Because our goal was to compare lænd-size (²) was calculated to better underowners in Maine and Vermont reported that owners with different land-use priorities tand the association between variables permit public access and 5 of 6 large those 10 landowners who indicated equative et al. 2004). Chi-square analysis was downers in New Hampshire do as well. priority to land-management priorities were sed to examine relationships of outdoor allow York was the anomaly of the Northern excluded from the analyses. Figure 2 illustivities permitted among landowner tenur forest states with 11 of 18 landowners detrates the 57 survey participants who listedgaoups as well as landowner managementing public access. Most large landowners distinct Prst priority. One-way analyses of priority groups.

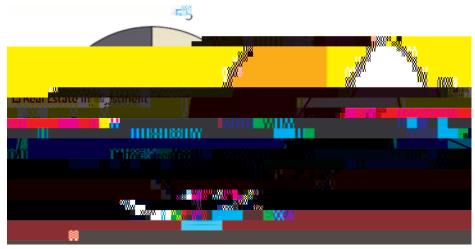


Figure 2. Number of sur e respondents and distinct rst priorit land management.

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Tenure and $\ln_{\tilde{\chi}}$ uence on Public Access

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