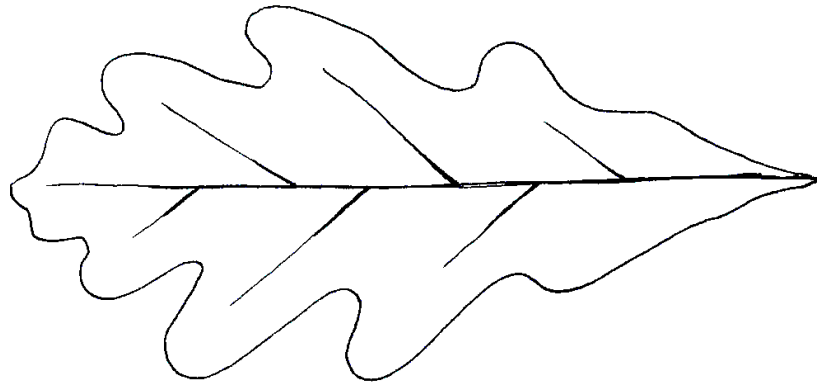


White Oak Initiative Landowner Survey 2020

Final Project Report

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Executive Summary

- A survey of Tree Farmers and randomly selected landowners was conducted to better understand their attitudes toward upland oak forest and potential barriers to oak management.
- Respondents see a variety of benefits from upland oak forests. Most respondents have oak trees on their wooded land, and around half want more.
- Barriers to practices to encourage oak regeneration and growth include not having enough information and not seeing a need for the practices on their land. Other barriers, such as concern that herbicides can damage wooded land or wetland areas, are specific to certain management practices. Using prescribed fire is more common in Southern states, where more owners have direct experience with it, especially among Tree Farmers.
- Respondents are more likely to be interested in participating in a hypothetical program when there is cost-sharing and they have the potential to earn more money per acre. The focus of the program (e.g. messaging) and the intensity of forest management, including herbicide use, do not significantly impact respondents' willingness to participate. Across all the scenarios, about 2 in 5 respondents were interested in the hypothetical program.
- Landowners are most likely to be interested in cooperating with state agencies and university/extension programs to manage their wooded land. Most of them are not members of any conservation or woodland owners' organizations.
- Landowners and Tree Farmers own their wooded land most commonly for beauty, privacy, and to protect wildlife habitat. Landowners do some management activities on their land, including harvesting trees and treating invasive plants. Tree Farmers generally do more management activities on their wooded land than other landowners.

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Introduction

This report summarizes the findings from the Woodland Owner Survey, a survey conducted as part of the White Oak Initiative in June-July 2020. We collected information on family forest owners' opinions on oak trees and upland oak forests, their feelings toward certain management practices, as well as characteristics of themselves and their wooded land. We present a summary of the methods and results, with an appendix summarizing the responses for all data collected.

Upland oak is a dominant forest type across much of the central and eastern United States (Braun 1950). Oaks are important for ecological, economic, and cultural reasons, but they face a number of challenges including pests and pathogens, climate change, drought, and other compounding stressors (Conrad et al. 2020). Oak trees have particular requirements for regeneration and survival, which can require active management for success on much of the landscape (Dey 2014). As a large part of their range is held by individuals and families (Butler et al. In Review), the decisions family forest owners make about their land will impact the future of oak across the landscape. Previous studies have identified private landowners' unwillingness to participate in active oak management and restoration as a main challenge facing oak forests (Knoot et al. 2010). There is also a complex web of social and ecological factors that contribute to the challenge of restoring oak on the landscape, influencing landowners' decisions as well as the forests themselves (Knoot et al. 2010). A better understanding of the specific attitudes that landowners hold toward upland oak forest and of the barriers they see towards its management will be critical in helping to shape programs and resources that support management and restoration of oak.

Goals and Objectives

The Woodland Owner Survey was conducted to better understand landowner feelings towards oak and oak management as well as the barriers to management across the Central Hardwood region. The survey results are intended to inform future work by the White Oak Initiative to better reach and support landowners for the long-term sustainability of white oak-dominated forests. Specifically, the survey was designed to:

- Understand landowner perceptions on the benefits of upland oak forests, and
- Understand the barriers to sustainably managing upland oak with a focus on white oak.

Methods

The Woodland Owner Survey was conducted among two groups: randomly selected landowners (Landowners) and Tree Farmers (Tree Farmers). Different methods were used to select and contact each group. For full methodology, please see Appendix 1.

20,000 forest landowners were randomly selected to receive the survey invitation from within the Central Hardwoods region (Braun 1950). Tree Farmers were selected based on the email addresses provided by American Forest Foundation for states in the Central Hardwoods region. A total of 8,164 Tree Farmer emails were included in the final email list. Landowners were contacted with a three-wave paper mailing, since mailing addresses were the only available contact information. Tree Farmers were contacted with a two-wave email.

The online survey was developed using the platform Qualtrics. Qualtrics allows a variety of question types and enables tracking by both unique access code and unique survey link.

Questions for the survey were developed by the FFRC team in consultation with subject matter experts and AFF staff.

Landowners with fewer than 10 acres of wooded land were removed from the results. Summary figures for each question were created to compare the responses from Landowners to those from Tree Farmers for each survey question. All figures are shown in terms of percent or number of respondents; error bars represent sampling error (Dillman et al. 2014).

Non-response bias was quantified by comparing results from the 2018 Woodland Owner Survey to those from the NWOS for comparable questions. Additionally, phone calls will be made to 250 individuals who did not respond to the survey to conduct a shortened version of the survey. Results from that analyses will be included in this report as an addendum.

Cooperation rate

Of the 20,000 Landowners who received the mailed invitation to participate in the survey, 1,589 responded. Sixteen were not reached or were no longer part of the sample, including having sold their land or passed away. The cooperation rate for landowners was 8.0%. For the 8,164 Tree Farmers who were emailed a link to the survey, 1,609 responded and 952 were not reached (e.g. email was undeliverable) or were no longer part of the sample. The cooperation rate for Tree Farmers was 22.3%. The number of responses varied by state for Landowners and Tree Farmers (Fig. 1).

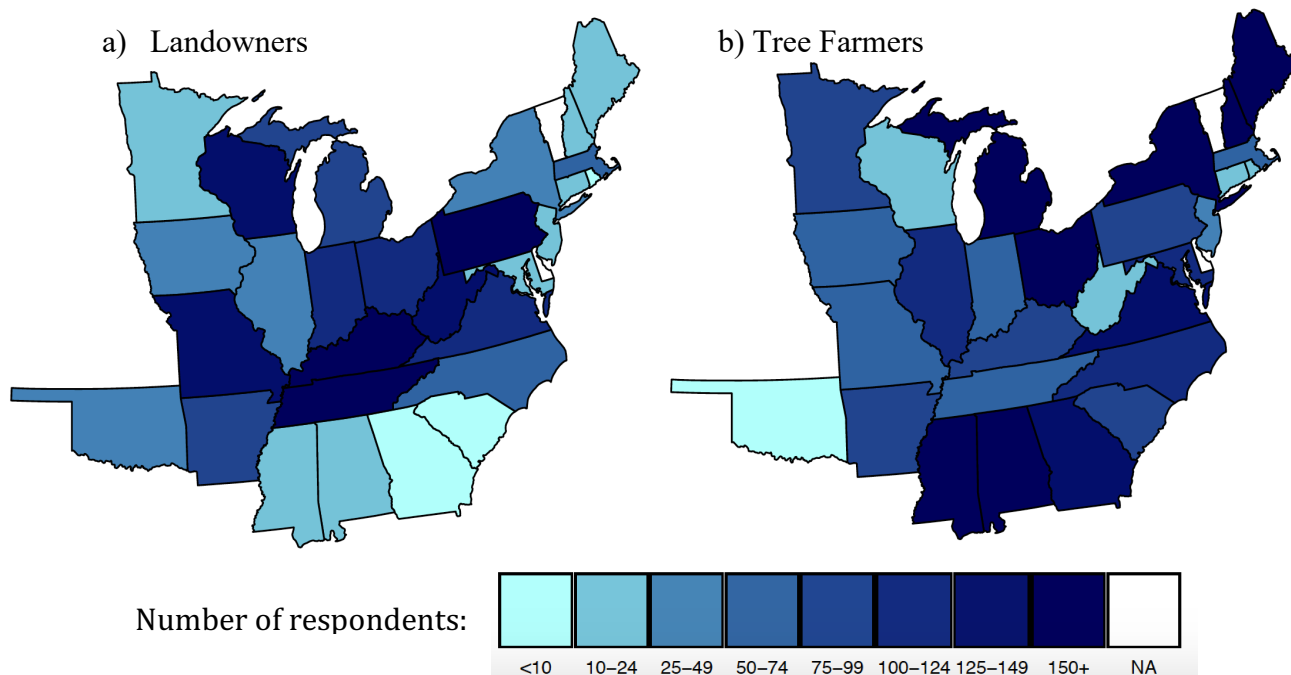


Figure 1. The number of responses from (a) Landowners and (b) Tree Farmers to the White Oak Initiative Landowner Survey, 2020.

Results

Perceptions of Oak and Oak Forest

A majority of Landowners and Tree Farmers think oak trees are either extremely common or very common on their wooded land (Landowners = $55\% \pm 1.6\%$ ¹, Tree Farmers = $51\% \pm 1.3\%$). Slightly more than half of Tree Farmers ($55\% \pm 1.3\%$) and slightly less than half of Landowners ($46\% \pm 1.6\%$) want more oak on their land. An interest in having more oak trees appears higher in the center of the Central Hardwoods range (Fig. 2).

¹ \pm indicates sampling error throughout (Dillman et al. 2014).

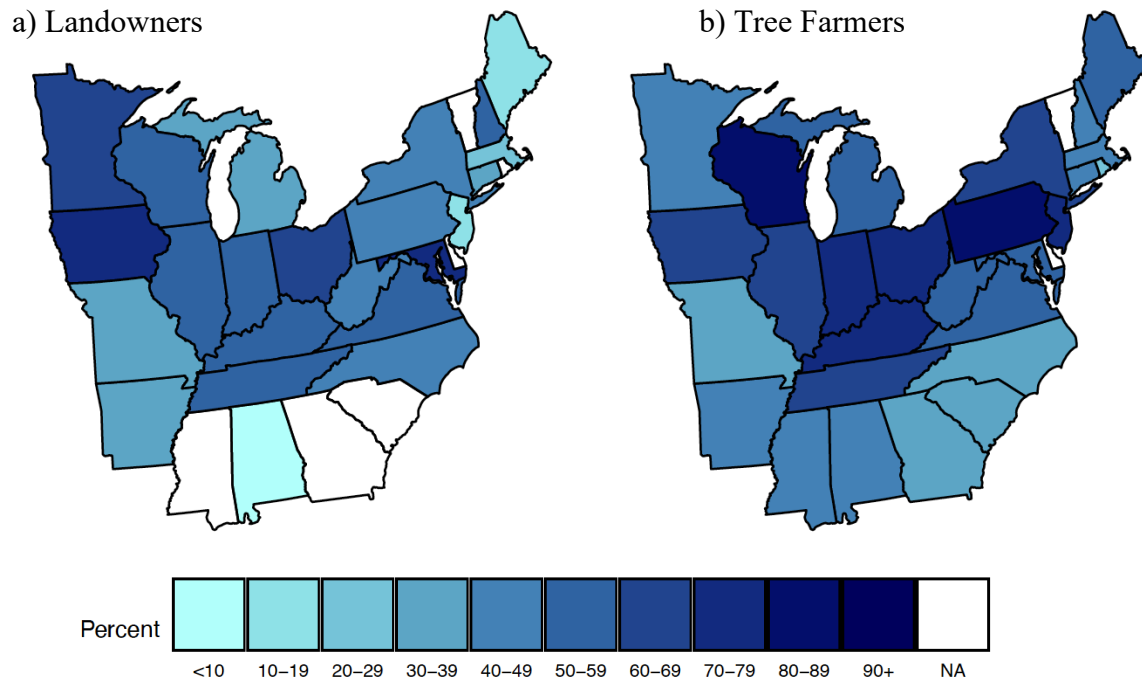


Figure 2. Percent of (a) Landowner and (b) Tree Farmer respondents in each state who want more oak trees on their wooded land.

Landowners and Tree Farmers generally agree with positive statements about upland oak forest.

Levels of agreement were highest for descriptions of upland oak forest as providing good scenery and providing good game and non-game habitat (Fig. 3). There was lower agreement for statements about the risks or challenges of upland oak forest. About 31% ($\pm 1.5\%$) of

Landowners and 35% ($\pm 1.3\%$) of Tree Farmers think that upland oak forest is at risk of declining (Fig. 3).

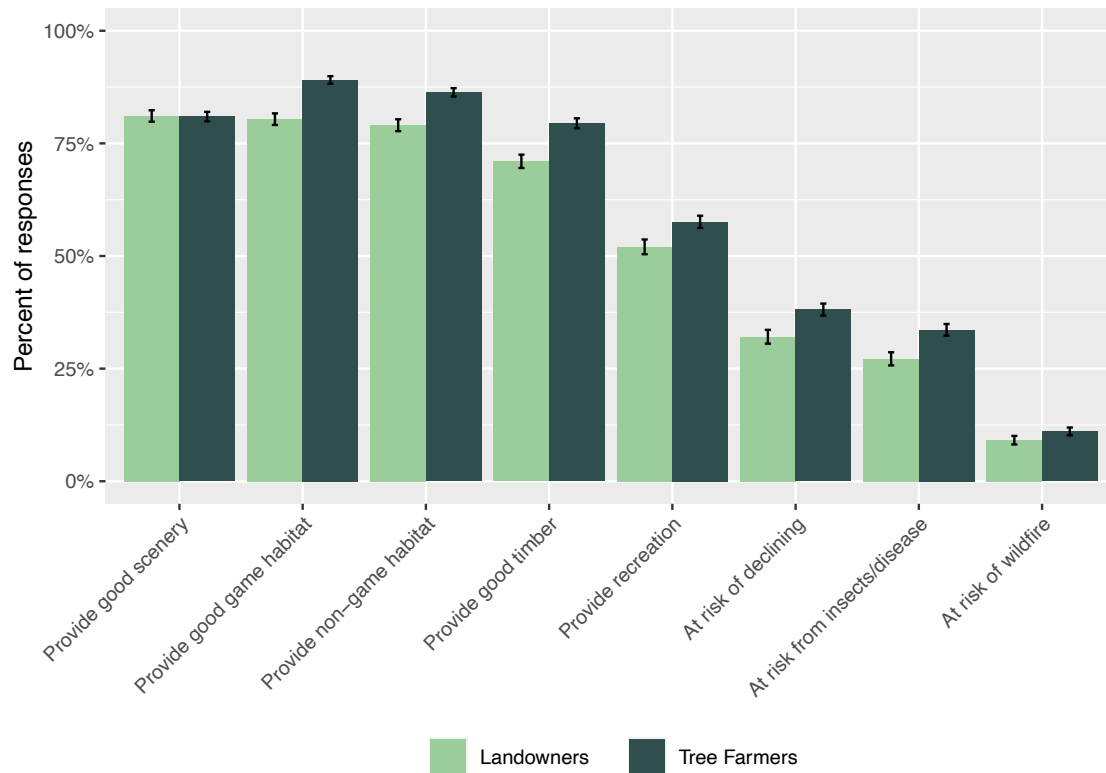


Figure 3. Percent of respondents who agree or strongly agree with the statement about upland oak forest.

Benefits and Barriers to Management

Four primary management practices were identified for white oak management: cutting trees for sale (i.e. harvesting), planting trees, using herbicides, and using prescribed fire. For each of these practices, respondents identified what they think about doing the activity: are they planning to do it, not planning to do it, not decided on whether they will do it or not, or have they never considered it. Next, they are asked to identify specific benefits and challenges they see to doing the activity. This allows identification of barriers to each practice as well as which benefits and barriers might move someone from not planning to planning to take an action. The results for respondents are described below; see Supplemental Table 1 for further information.

Cutting Trees for Sale (Harvesting)

29% ($\pm 1.4\%$) of Landowners are planning to cut trees for sale in the future (Fig. 4). The most commonly reported benefits are to earn money and to improve future timber quality; the most common challenges to cutting is that it looks ugly and it is difficult for Landowners to find a logger they trust (Fig. 5). People who are planning to cut are more likely to see improving wildlife habitat, improving future timber quality, earning money, and furthering their goals as benefits and are less likely to see cutting trees damaging their wooded land, cutting trees looking ugly, not having enough information, and cutting trees not furthering their goals as barriers. 68% ($\pm 1.2\%$) of Tree Farmers are planning to cut trees for sale (Fig. 4), and those who are planning to cut are more likely to see improving future timber quality, earning money, and furthering their goals as benefits and are less likely to see damaging the land, not having enough information, and cutting trees not furthering their goals as a barrier. Tree Farmers who see finding a logger they trust as a barrier are also more likely to plan to cut trees for sale.

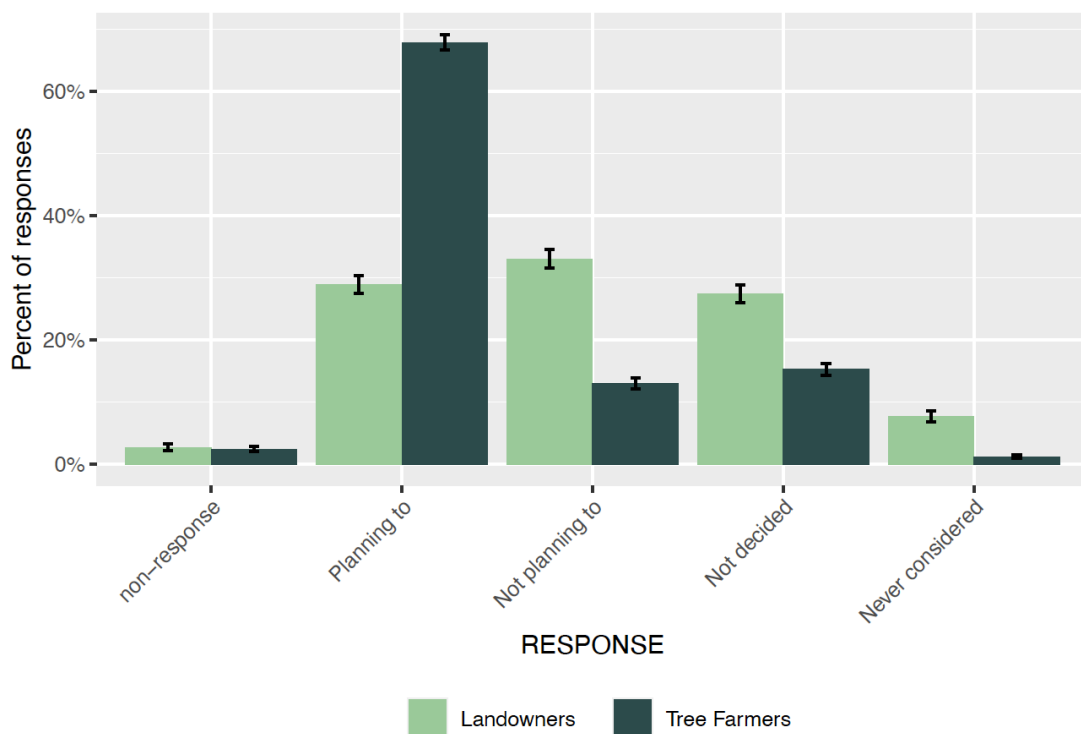


Figure 4. Percent of respondents who are at each stage of planning to cut trees for sale on their wooded land.

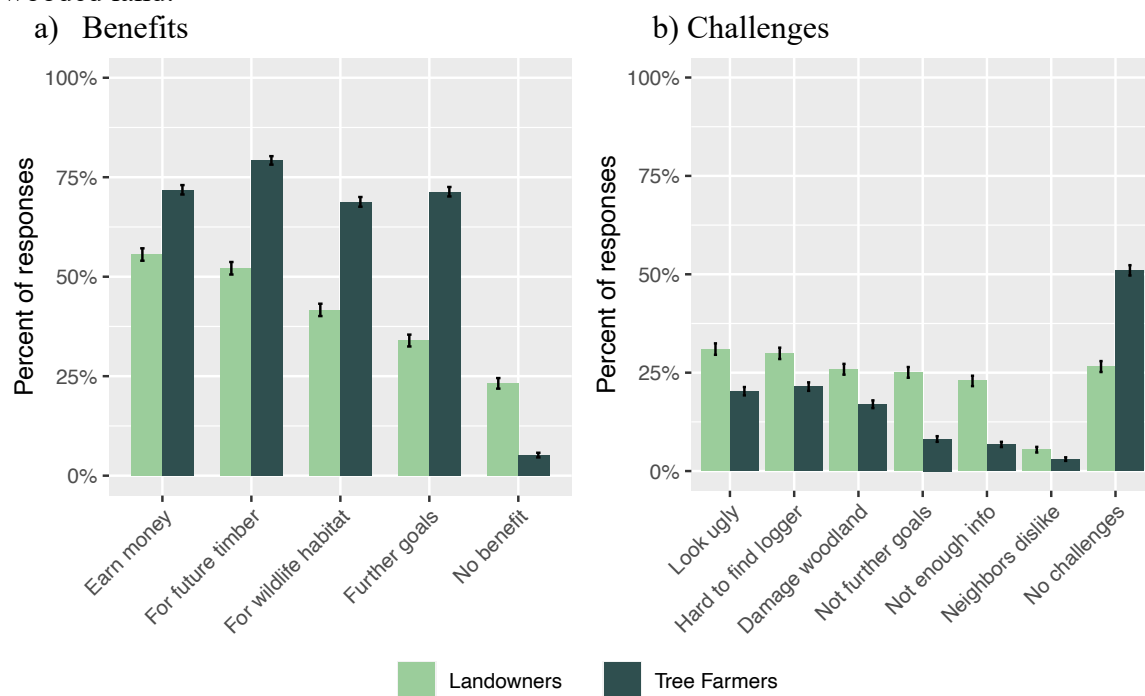


Figure 5. Percent of respondents who identified each option as a (a) benefit or (b) challenge to cutting trees for sale from their wooded land.

Planting Trees

30% ($\pm 1.4\%$) of Landowners are planning to plant trees (of any species) on their wooded land in the future (Fig. 6). The most commonly reported benefit of planting trees is for wildlife habitat, and the most common barriers to planting trees are deer browse and planting trees not furthering their goals for their land (Fig. 7). Landowners who are planning to plant trees are more likely to see improving future timber quality and furthering their goals as benefits and less likely to see deer browse, getting seedlings, and not having enough information as a barrier. Landowners who are planning to plant are more likely to see the cost as a barrier. For Tree Farmers, 52% ($\pm 1.3\%$) are planning to plant trees (Fig. 6). They most commonly report furthering their goals, wildlife habitat, and improving future timber quality as benefits and deer browse as a challenge (Fig. 7). Tree Farmers who are planning to plant trees are more likely to see improving wildlife habitat and improving future timber as benefits and are less likely to see deer browse and not having enough information as challenges to planting. Tree Farmers who are planning to plant are more likely to see the cost as a barrier.

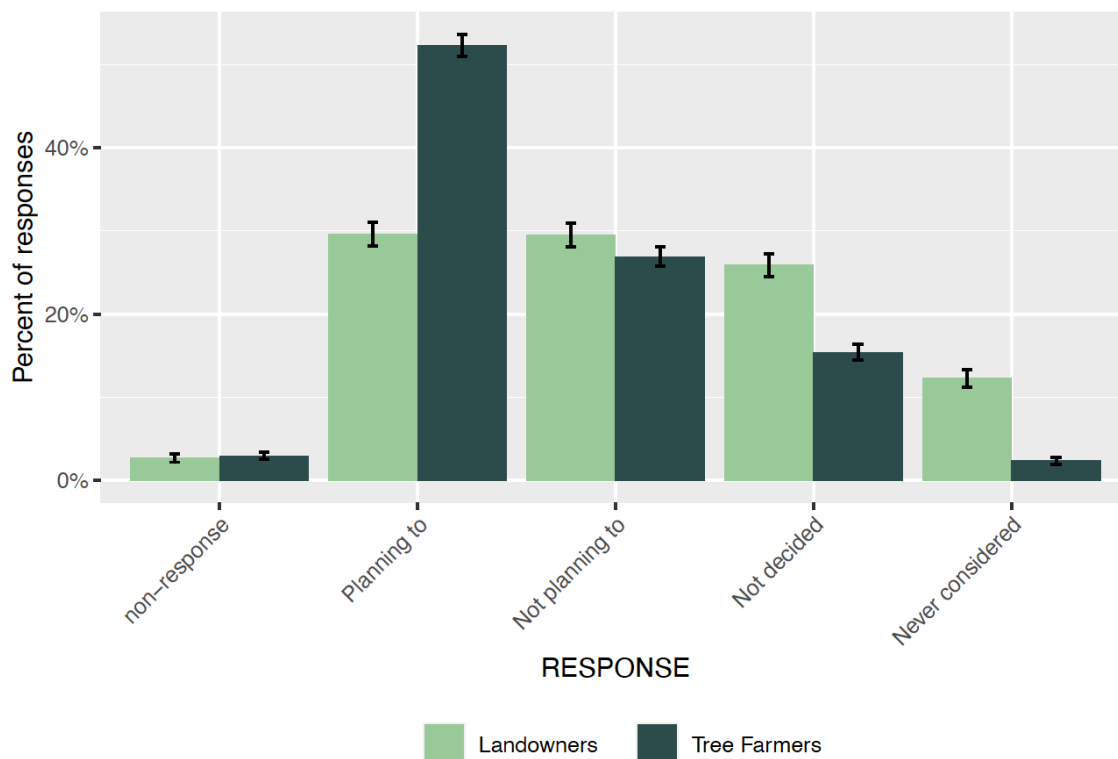


Figure 6. Percent of respondents who are at each stage of planning to plant trees on their wooded land.

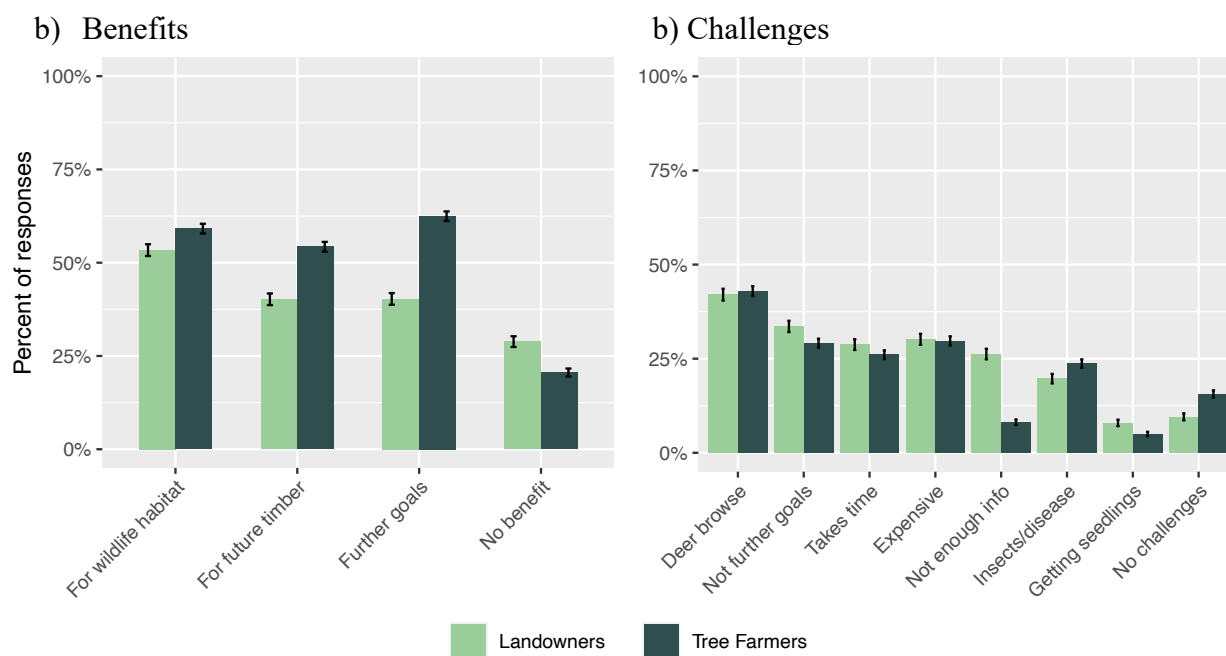


Figure 7. Percent of respondents who identified each option as a (a) benefit or (b) challenge to planting trees on their wooded land.

Herbicides

Less than a quarter of Landowners ($22\% \pm 1.3\%$) are planning to use herbicides on their wooded land (Fig. 8). Landowners report reducing invasive plants as a benefit and the expense, not having enough information, and not needing to use herbicides as challenges (Fig. 9). Landowners who are planning to use herbicides differ from those who are not in several ways: they are more likely to see improving wildlife habitat, reducing invasive plants, encouraging plants they want, and furthering their goals as benefits and are less likely to see damaging their wooded land, damaging wetlands, damaging plants they want, not having enough information, and not needing to use herbicides as barriers. Around half of Tree Farmers ($54\% \pm 1.3\%$) plan to use herbicides on their wooded land in the future (Fig. 8). Tree Farmers see reducing invasive plants as a benefit and the expense as a challenge to using herbicides (Fig. 9). Tree Farmers that plan to use herbicides are more likely to see improving wildlife habitat, reducing invasive plants, and furthering their goals as benefits and are less likely to see damaging wetlands, their neighbors disapproving, not having enough information, and not needing to use herbicides as barriers.

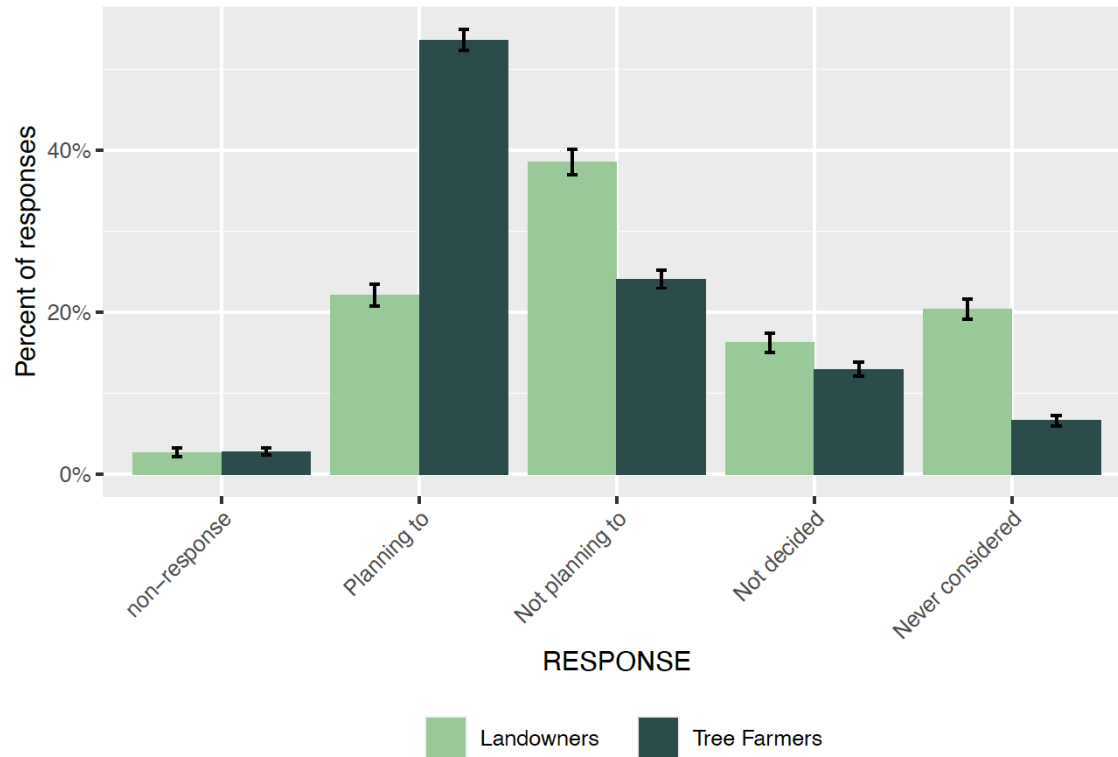


Figure 8. Percent of respondents who are at each stage of planning to use herbicides on their wooded land.

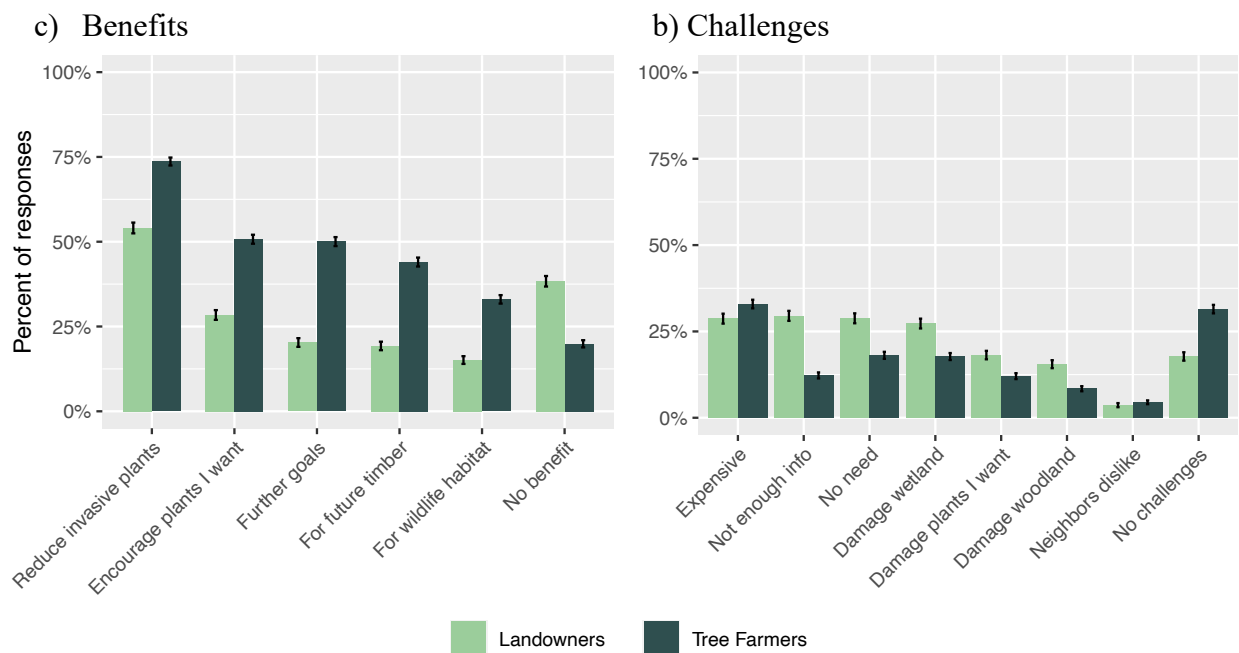


Figure 9. Percent of respondents who identified each option as a (a) benefit or (b) challenge to using herbicides on their wooded land.

Prescribed Fire

Only 7% ($\pm 0.8\%$) of Landowners are planning to use prescribed fire on their land, compared to 27% ($\pm 1.2\%$) of Tree Farmers (Fig. 10). Tree Farmers in the South are especially likely to plan to use prescribed fire on their wooded land (Fig. 11). Just over half of Landowners do not see a benefit from using prescribed fire, and the most common challenge is the risk or danger (Fig. 12). For Tree Farmers, reducing unwanted plants and improving wildlife habitat are the most common benefits; the risk or danger is the most common challenge (Fig. 12). Landowners who are planning to use prescribed fire are more likely to see improving wildlife habitat, reducing unwanted plants, and furthering their goals as benefits and are less likely to see not having enough information and not needing to use prescribed fire as a barrier. Tree Farmers who are planning to use prescribed fire are more likely to see improving wildlife habitat and furthering their goals as benefits and are less likely to see fire as risky or dangerous, that their neighbors would dislike it, that they don't have enough information, and that they do not need to use prescribed fire as barriers.

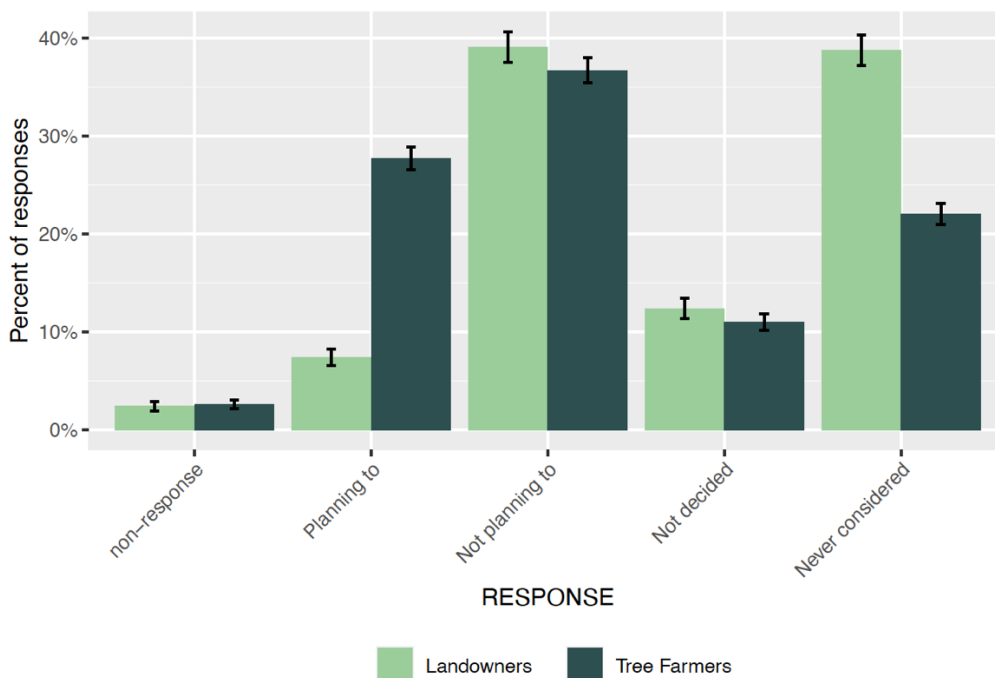


Figure 10. Percent of respondents who are at each stage of planning to use prescribed fire on their wooded land.

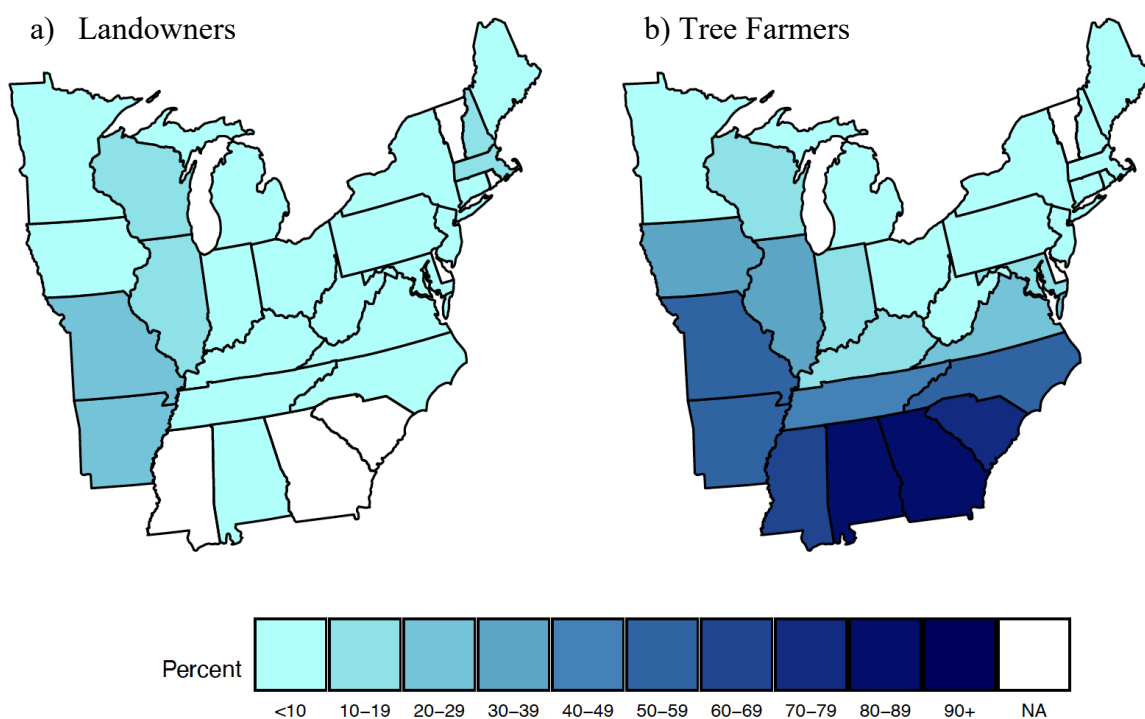


Figure 11. The percent of respondents in each state who are planning to use prescribed fire on their wooded land in the future for (a) Landowners and (b) Tree Farmers. States with fewer than 5 responses are excluded.

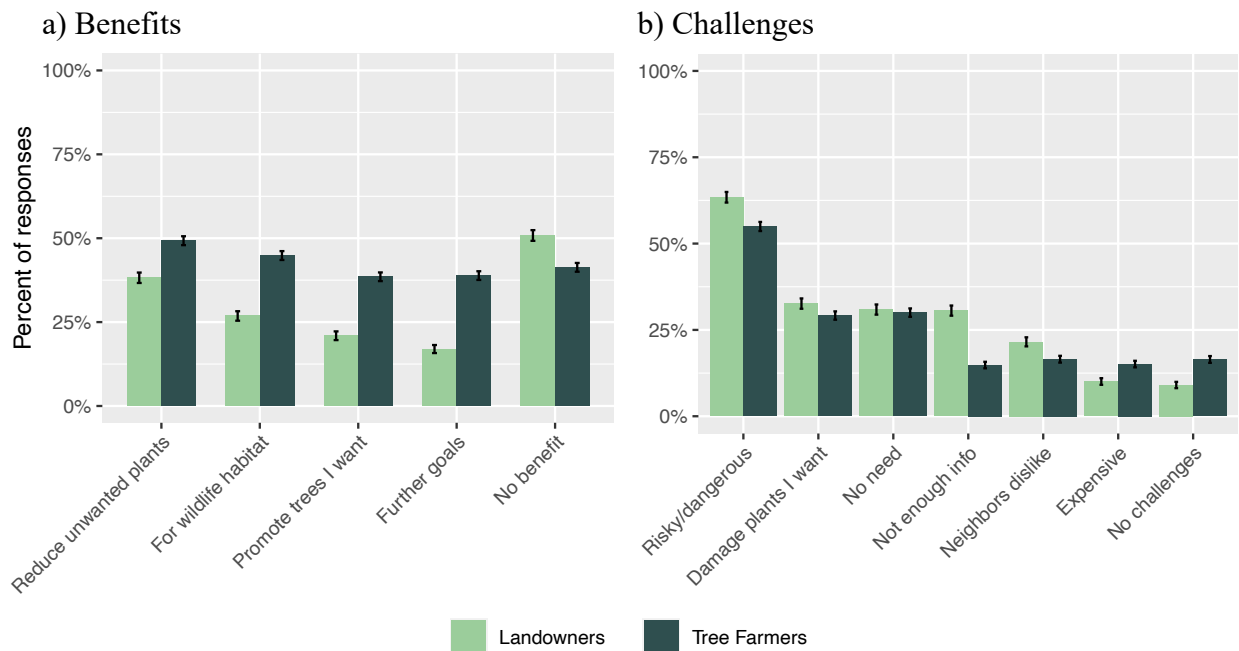


Figure 12. Percent of respondents who identified each option as a (a) benefit or (b) challenge to using prescribed fire on their wooded land.

Potential Oak Management Programs

In a series of hypothetical scenarios of a program to manage for oak, Landowners responded positively to cost-share (compared to not cost-share) programs and a to higher price incentive per acre. The topic of the program (for deer and turkey, for wildlife, for wood products including bourbon barrels, or for good stewardship) did not matter to respondents' interest in participating. The intensity of cutting (cutting trees for sale and using herbicides; cutting trees for sale; or cutting brush) also did not impact respondents' interest in participating. See Supplemental Table 2 for more information. Across all scenarios, 37% ($\pm 1.6\%$) of Landowners and 46% ($\pm 1.3\%$) of Tree Farmers were interested in the hypothetical program.

Advice and Management

The vast majority ($87\% \pm 0.9\%$) of Tree Farmers have received advice about their wooded land in the past five years, compared to $38\% (\pm 1.5\%)$ of Landowners. Advice is most commonly received by talking to someone or by having someone visit the land. For both groups, a large percentage want to receive advice in the next five years (Landowners = $58\% \pm 1.5\%$; Tree Farmers = $81\% \pm 1.0\%$). Most Tree Farmers ($90\% \pm 0.8\%$) have a management plan for their wooded land, while only $24\% (\pm 1.3\%)$ of Landowners do. While Tree Farmers are required to have a management plan to participate in the program, it is possible that some individuals are not aware that they have one.

Over 70% of Tree Farmers ($74\% \pm 1.1\%$) and over 40% of Landowners ($42\% \pm 1.5\%$) have cut trees for sale on their wooded land (Fig. 13). More than half of Tree Farmers, and lower percentages of Landowners, have cut brush, treated invasive plants, planted trees, used herbicides, or cut trees for reasons other than for sale (Fig. 13). Around a quarter of Tree Farmers ($25\% \pm 1.1\%$) have used prescribed fire on their wooded land, as have $8\% (\pm 0.8\%)$ of Landowners. Fire is most common in Southern states (Fig. 14).

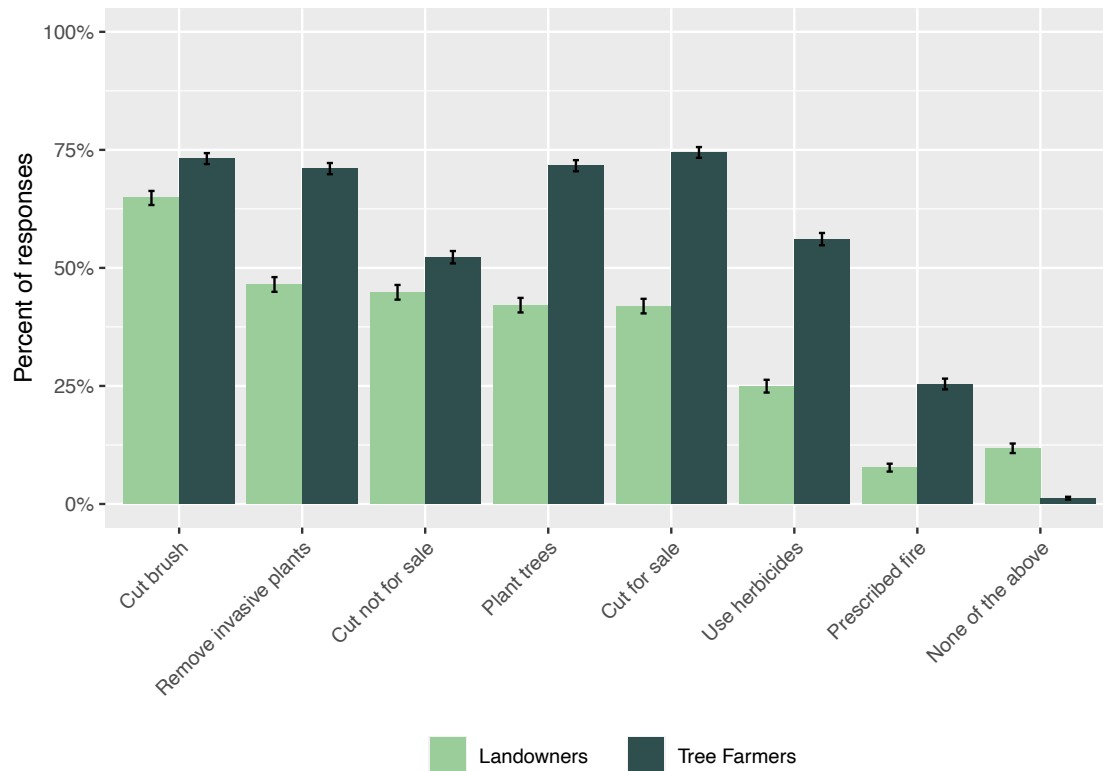


Figure 13. Percent of respondents who have done each management practice on their wooded land since they have owned it.

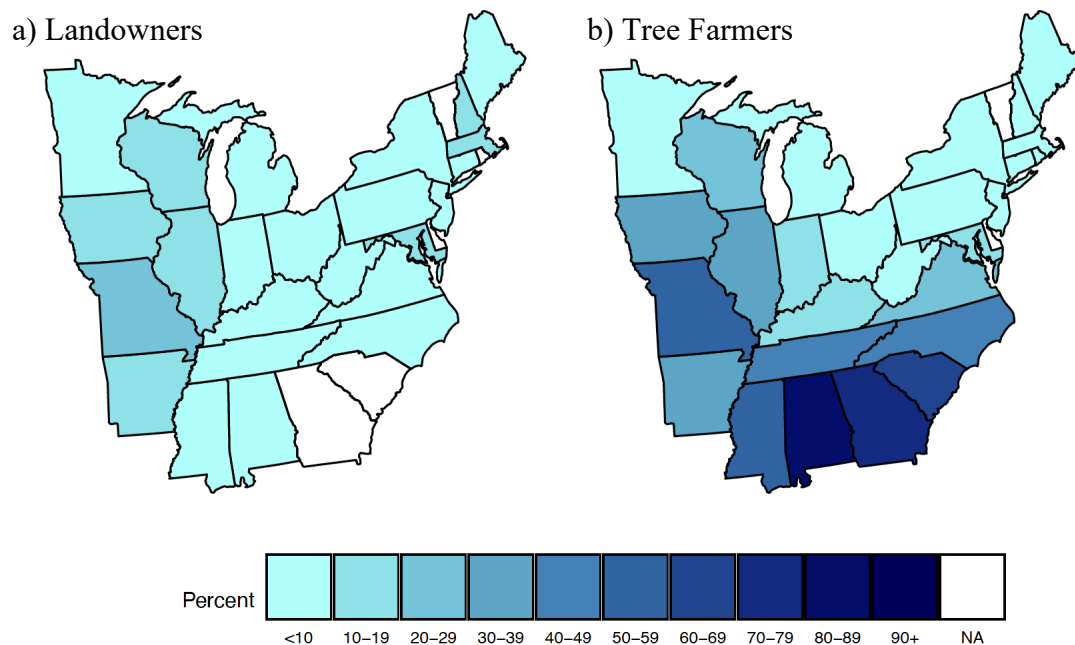


Figure 14. Percent of a) Landowner and b) Tree Farmer respondents who have used prescribed fire on their wooded land. States with fewer than 5 responses are excluded.

Wooded land characteristics

Landowners own a median of 79 wooded acres (mean = 280); for Tree Farmers, median wooded land owned is 110 acres (mean = 479). Landowners first acquired their wooded land in the median year 2000 (mean = 1998), and Tree Farmers acquired their wooded land in the median year 1994 (mean = 1992).

For both Landowners and Tree Farmers, the most commonly important reasons why they currently own their wooded land are for beauty, privacy, and to protect wildlife habitat (Fig. 15). For most Tree Farmers (63% \pm 1.3%), timber is an important or very important reason for why they own their wooded land, whereas timber is only important or very important to 30% (\pm 1.4%) of Landowners (Fig. 15).

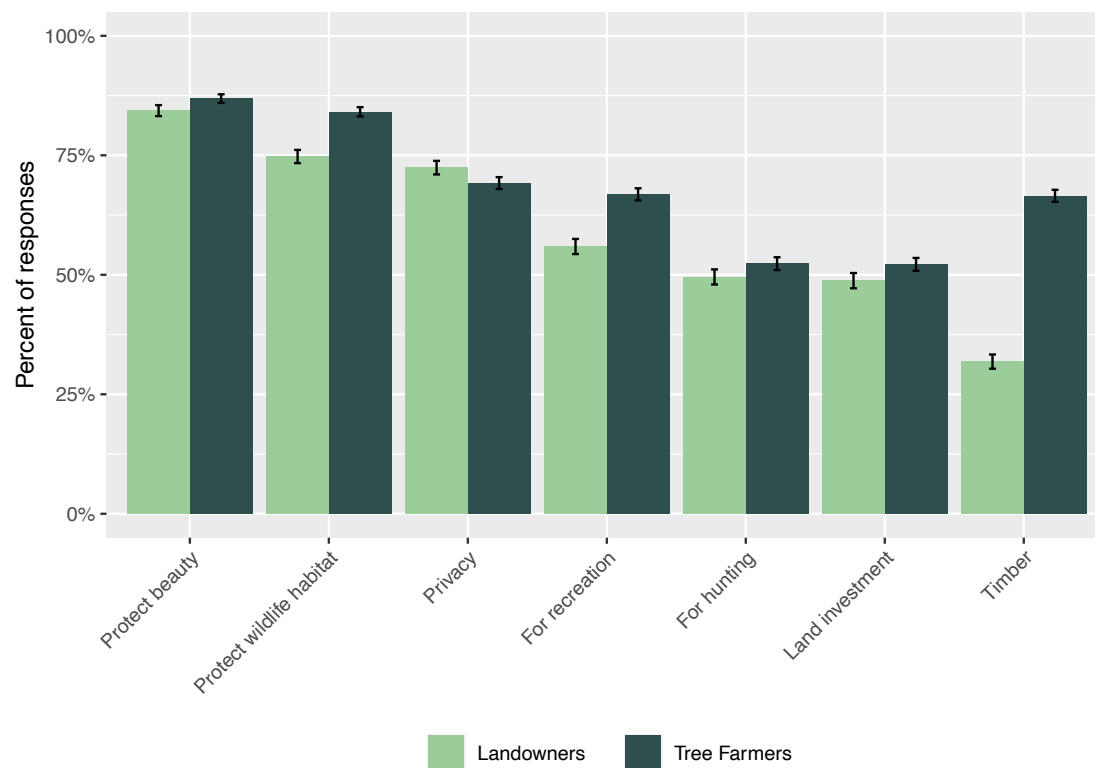


Figure 15. Percent of respondents for whom the reason for owning their wooded land is "Important" or "Very Important."

Respondent Characteristics

A majority of Landowners (52% \pm 1.6%) and Tree Farmers (76% \pm 1.1%) identify either extremely or very strongly as conservationists, and a slightly lower percentage identify as environmentalists (Landowner 39% \pm 1.6%; Tree Farmer 57% \pm 1.3%). Most Landowners (65% \pm 1.5%) and Tree Farmers (70% \pm 1.2%) also identify as wildlife viewers, and slightly more than a third of each group identify as hunters (Landowner 38% \pm 1.6%, Tree Farmer 42% \pm 1.3%). The groups diverge in their identity as timber growers, with 65% (\pm 1.3%) of Tree Farmers but only 24% (\pm 1.4%) of Landowners identifying as timber growers (Fig. 16).

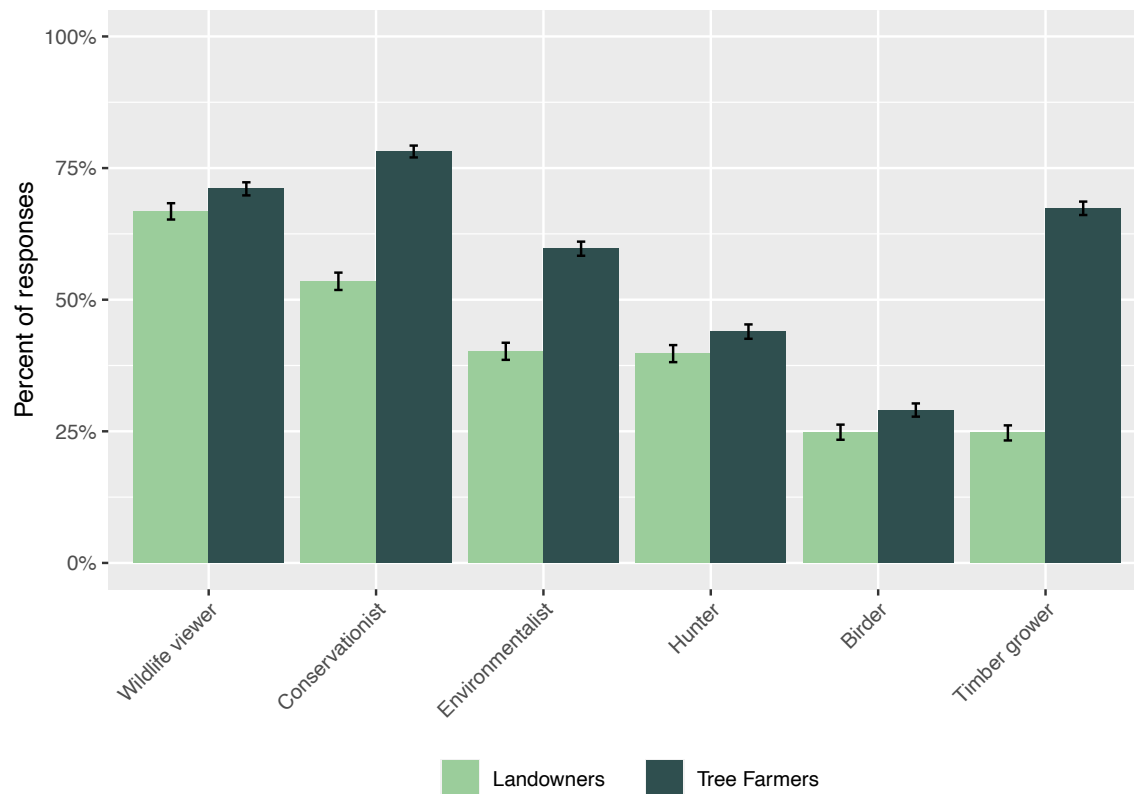


Figure 16. Percent of respondents who identify with the label either "Extremely" or "Very" strongly.

The majority of respondents are male (Landowner = 72% \pm 1.5%, Tree Farmer = 84% \pm 1.0%), and the average age is 62 (range = 18-95) for Landowners and 67 (range = 26-100) for Tree Farmers. Most Landowners do not belong to any conservation or landowner organization, whereas Tree Farmers often belong to multiple groups (Fig. 17). Both Landowners and Tree Farmers are most likely to want to cooperate with state agencies or university/extension departments to manage their land, although in all categories more Tree Farmers report willingness to cooperate with organizations (Fig. 18).

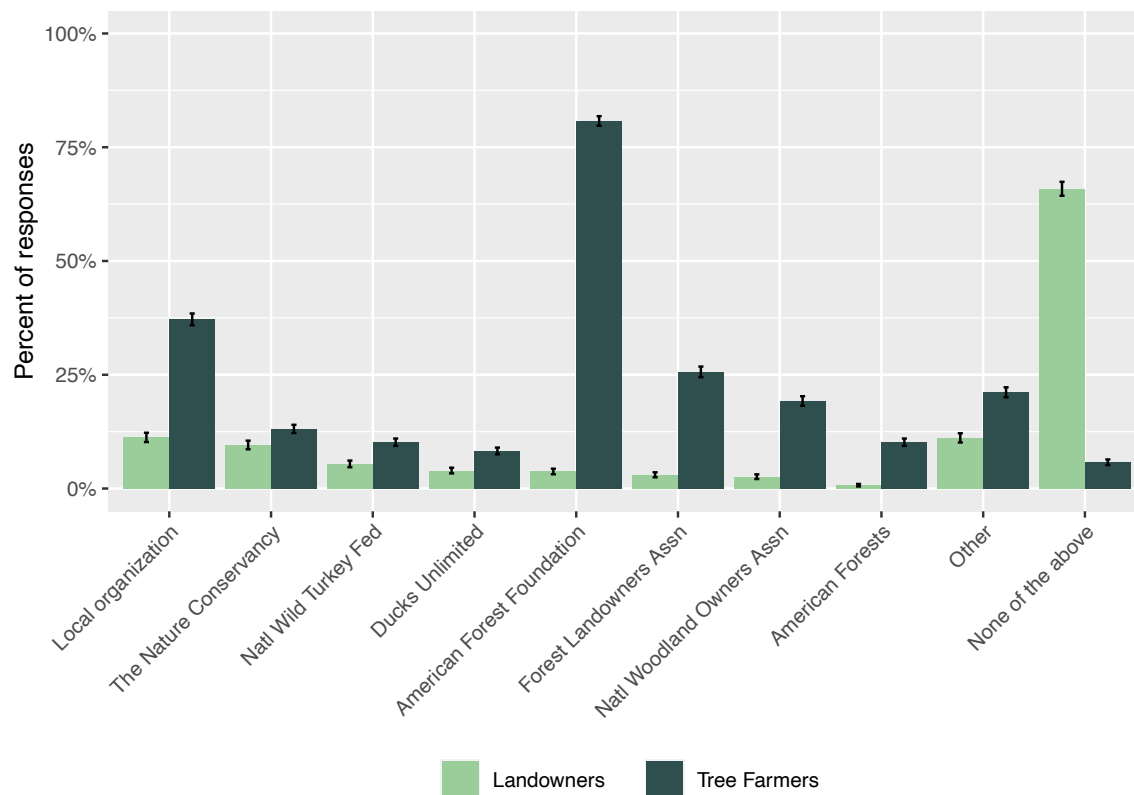


Figure 17. Percent of respondents who belong to each conservation or forestry organization.

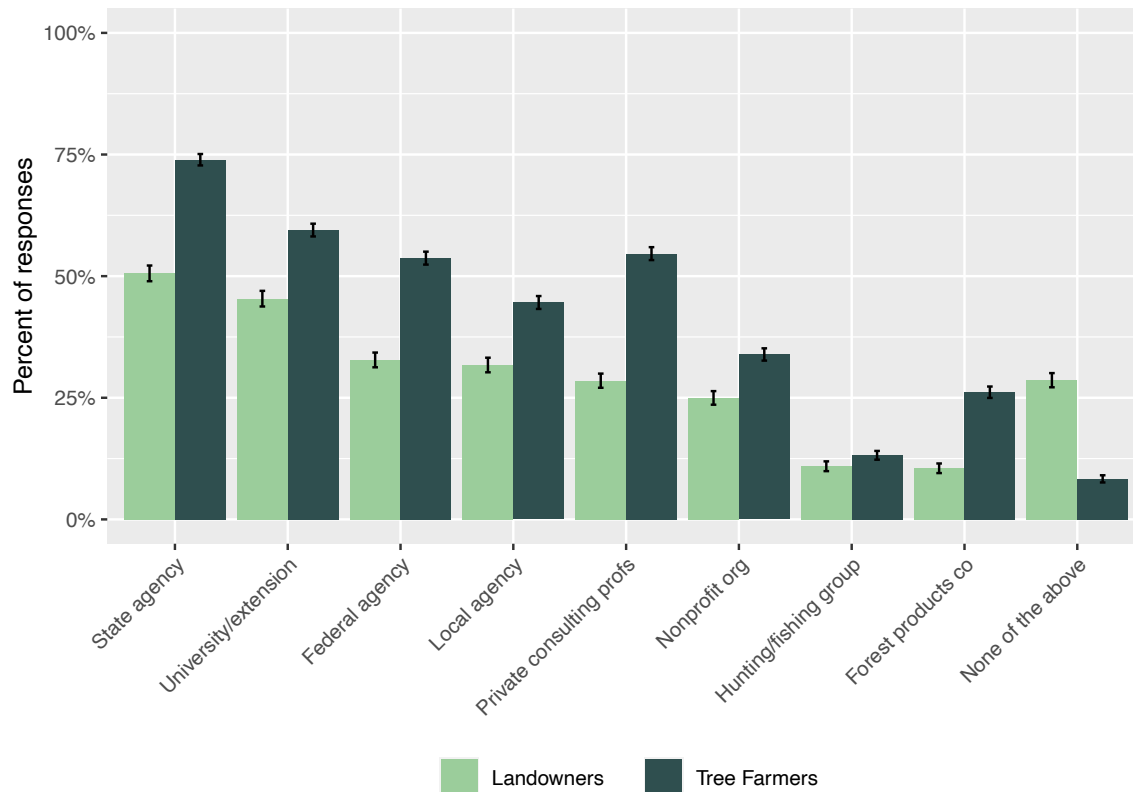


Figure 18. Percent of respondents who would be interested in cooperating with an organization to manage their wooded land.

Non-response Assessment

Landowners who responded to the White Oak Initiative Woodland Owner Survey (WOI) are generally similar to respondents to the National Woodland Owner Survey (NWOS) from the same states. For each question compared, differences between WOI landowners and NWOS landowners were either not significant, or had negligible or small effect sizes (Cohen 1992). WOI landowners own slightly smaller wooded acreages, are less likely to own multiple parcels, purchased their land more recently, are less likely to own a farm near their wooded land, and have slight differences in their reasons for owning land compared to NWOS landowners.

Conclusions

Both Landowners and Tree Farmers see many positive benefits of upland oak forest on their land, and many have abundant oak trees and want more oak trees on their land. However, for most oak management practices, the main barriers for those who are not planning to do the practice are lack of information and not seeing the practice as furthering their goals for their wooded land. Outreach efforts that build on the positive attitudes towards upland oak forests and connect relevant management practices to growing or increasing oak trees may increase landowners' interest in and willingness to conduct those practices on their land. Programs to support landowners that include cost-share to reduce the cost per acre or increase the money earned per acre for the landowner may increase program participation. Cooperation with state and university/extension departments may also increase respondents' participation in land management activities.

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Additional Materials

Appendix 1. Methodology for sample selection and survey implementation.

Appendix 2. Summary of Landowner and Tree Farmers responses to each question.

Appendix 3. Spatial distribution of responses for Landowners and Tree Farmers.

Appendix 4. Non-response comparison to the National Woodland Owner Survey.

Appendix 5. Survey instrument from Qualtrics.

Supplemental Table 1. Relationship between benefits and challenges with different management practices.

- a. Landowners cutting for sale
- b. Landowners planting trees
- c. Landowners using herbicides
- d. Landowners using prescribed fire
- e. Tree Farmers cutting for sale
- f. Tree Farmers planting trees
- g. Tree Farmers using herbicides
- h. Tree Farmers using prescribed fire

Supplemental Table 2. Relationship between hypothetical program characteristics and respondent interest.

- a. Landowners
- b. Tree Farmers

White Oak Initiative Landowner Survey Additional Analyses

Executive Summary

- Question 1: Moving Landowners to action
 - The main barriers to management actions reported by Landowner differ by their stage of planning. For those planning to do an action, the most common barrier to harvesting is finding a trustworthy logger; the most common barrier to planting is deer browse; the most common barrier to using herbicides is the cost; and the most common barrier to using prescribed fire is the risk. For those who have not decided whether or not to do an action, the most common barriers to harvesting are finding a trustworthy logger and not having enough information; the most common barrier to planting and to using herbicides is not having enough information; and the most common barrier to using prescribed fire is the risk.
- Question 2: Other conclusions about how money impacts Landowners decisions
 - While price per acre and cost-share availability influenced whether or not Landowners were interested in a hypothetical oak management program, cost was not associated with program topic or management intensity.
 - For the four specific activities we investigated, the similarity between how Landowners who are planning to do the activity and those who have not decided feel about money makes it seem that money is not the deciding factor for those activities and these responses may be more an indication that they simply do not want to lose (and are certainly willing to earn) money.
- Question 3: Relationship between parcel size and aesthetics
 - Size of holdings is positively related to Landowners' interest in moderate to high intensity harvest. For cutting a few trees per acre, interest is positively related to size until 500 acres, then it is negatively related. Cutting trees being ugly as a barrier to harvest is not related to size of holdings.
 - Cutting a few trees per acre is of interest to many Landowners across the region, with lower interest for cutting at higher intensities.
- Question 4: Dig into communicating with Landowners
 - The rate of having a management plan seems to increase with the number of sources of information, as does the rate of planning to do a specific activity. This may not be causal and may reflect other dynamics.
 - Program theme did not affect whether or not people accepted the hypothetical oak management program. It is possible that other themes or language that we did not test, or having different themes or language in a non-hypothetical scenario, would impact Landowners' participation.
- These are still preliminary results. We will continue to dig into these and other questions as we conduct further data analyses, including more robust statistical models, and we will share results as they are available.

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| QUESTION 1: HOW DO WE MOVE LANDOWNERS (BOTH ENGAGED AND UNENGAGED) FROM THE PREPARE TO ACT STAGE? | 3 |
| QUESTION 2: WHAT OTHER CONCLUSIONS CAN WE MAKE BASED ON THE RESULTS THAT SHOW MONEY MATTERS TO LANDOWNERS IMPLEMENTING MANAGEMENT ACTIONS. | 8 |
| QUESTION 3: CAN WE SEE ANY ADDITIONAL CONCLUSIONS AROUND PARCEL SIZE AND AESTHETICS?..... | 9 |
| QUESTION 4: DIG INTO COMMUNICATING WITH LANDOWNERS | 13 |

Question 1: How do we move Landowners (both engaged and unengaged) from the prepare to act stage?

- *How do we move those who are already acting to additional or specific (white oak) actions?*
- *The more we learn about factors, both real and perceived, that effect a Landowner's decision making the better we'd be at changing behaviors and getting to action on the ground.*

It is helpful to segment the landowners into four categories based on the stages of change: planning, undecided, not planning, and never considered. The appropriate segment to target will depend on program goals, and the information and resources needed will vary by stage. Maybe concentrating just on those owners who are planning to do an activity is sufficient, but if not, then other segments will need to be judiciously targeted.

For Landowners who identify as planning to do an activity, understanding and addressing the barriers they identify may help span the bridge between intention and action and encourage them to do that activity and potentially additional activities (Fig. 1).

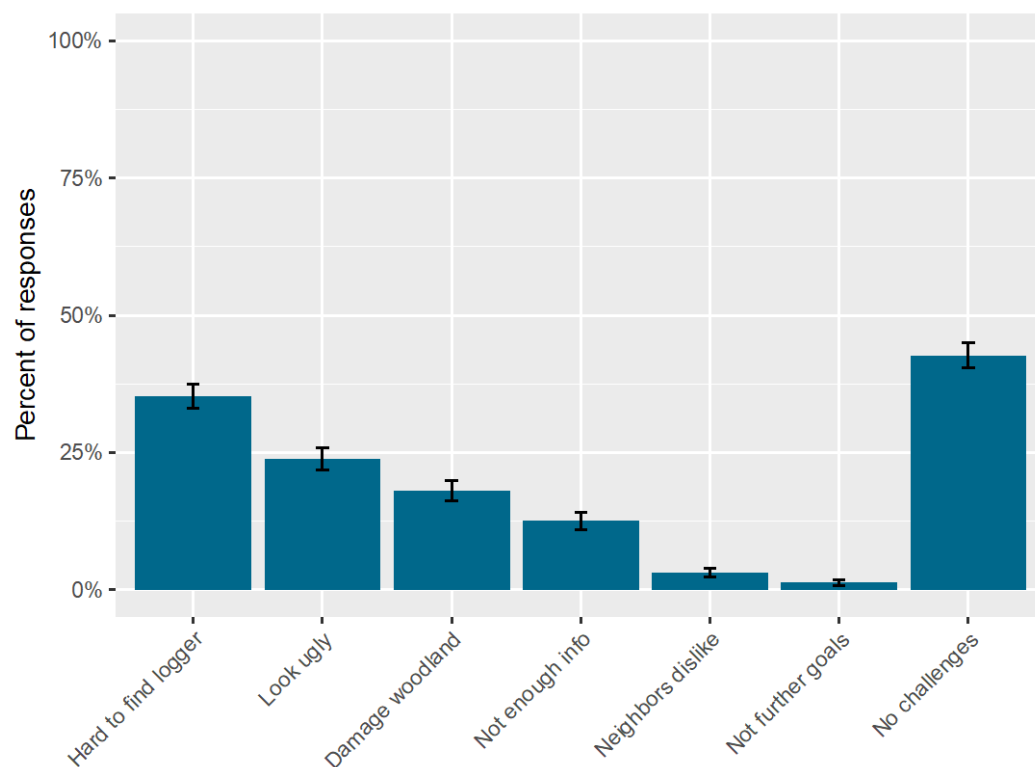
- 30% of Landowner¹ respondents are planning to cut trees for sale in the future; the most common barrier they identify is finding a logger that they trust (35%). 43% have no barriers to cutting.
- 30% of Landowner respondents are planning to plant trees in the future; the main barriers they identify are deer browse (61%), cost (38%), insects/disease (36%), and time (33%). 12% have no barriers to planting.
- 23% of Landowner respondents are planning to use herbicides in the future; the main barrier they identify is the cost (40%). 41% have no barriers to using herbicides.
- 7% of Landowner respondents are planning to use prescribed fire in the future; the main barriers they identify are that it is risky or dangerous (60%) and can damage plants they want (26%). 21% have no barriers to using prescribed fire.

Landowners who have not decided whether to do an activity are likely the next most engaged group, and understanding and identifying the barriers they perceive could help move them into action (Fig. 2).

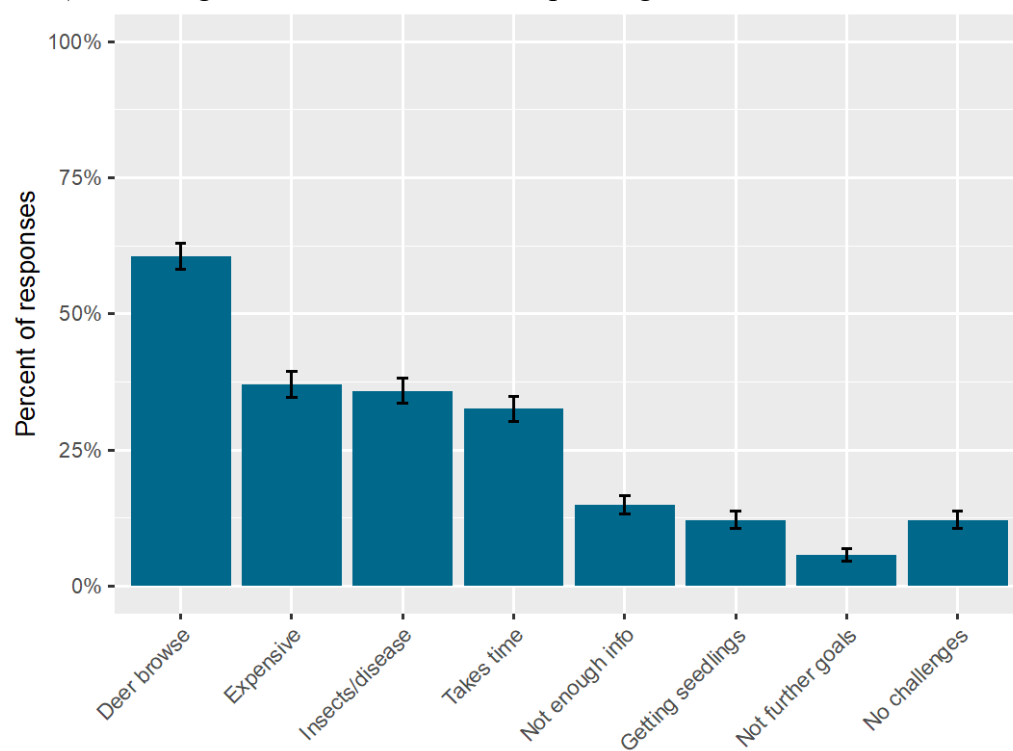
- 28% of Landowners are undecided about cutting trees for sale in the future; the main barriers they identify are that they do not have enough information (42%), that it is difficult to find a logger they trust (42%), that it looks ugly (38%), and that it can damage their wooded land (33%). 19% have no barriers to cutting.
- 27% of Landowners are undecided about planting trees in the future; the main barriers they identify are that they do not have enough information (43%), deer browse (39%), cost (37%), and time (33%). 8% have no barriers to planting.
- 17% of Landowners are undecided about using herbicides in the future; the main barriers they identify are not having enough information (56%) and the cost (41%). 12% have no barriers to using herbicides.
- 13% of Landowners are undecided about using prescribed fire in the future; the main barriers they identify are that it is risky or dangerous (72%), that they do not have enough information (47%), and that it can damage plants they want (36%). 6% have no barriers to using prescribed fire.

¹ All analyses and summaries reported in this addendum refer to Landowner respondents and do not include Tree Farmers.

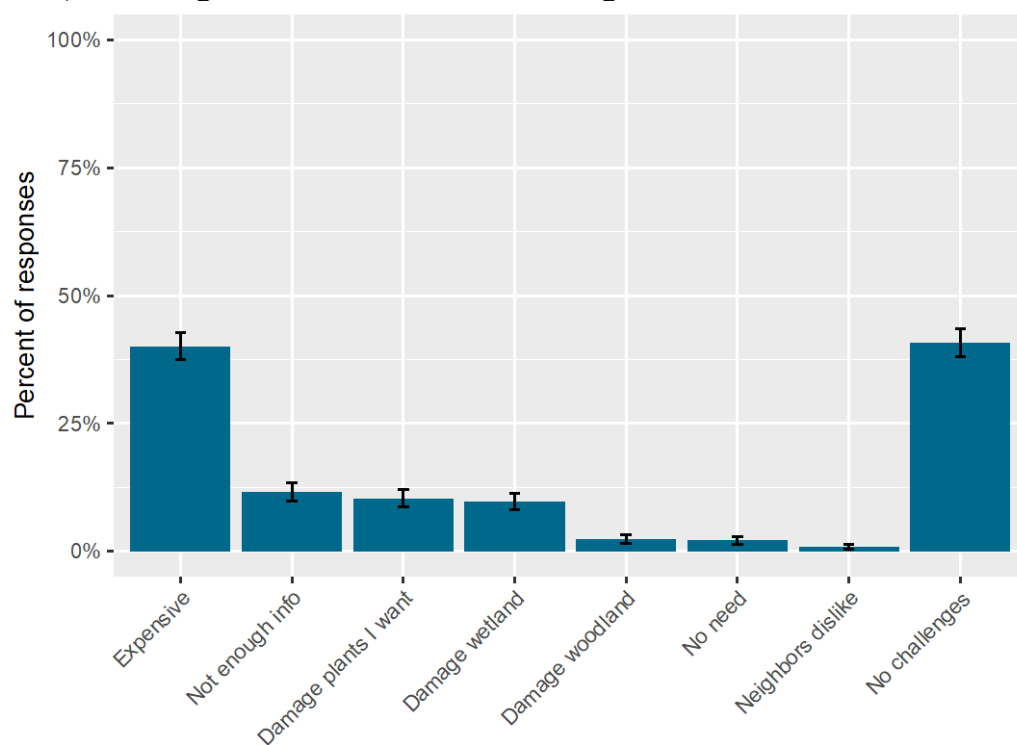
a) Planning Landowners – barriers to cutting



b) Planning Landowners – barriers to planting



c) Planning Landowners – barriers to using herbicides



d) Planning Landowners – barriers to using prescribed fire

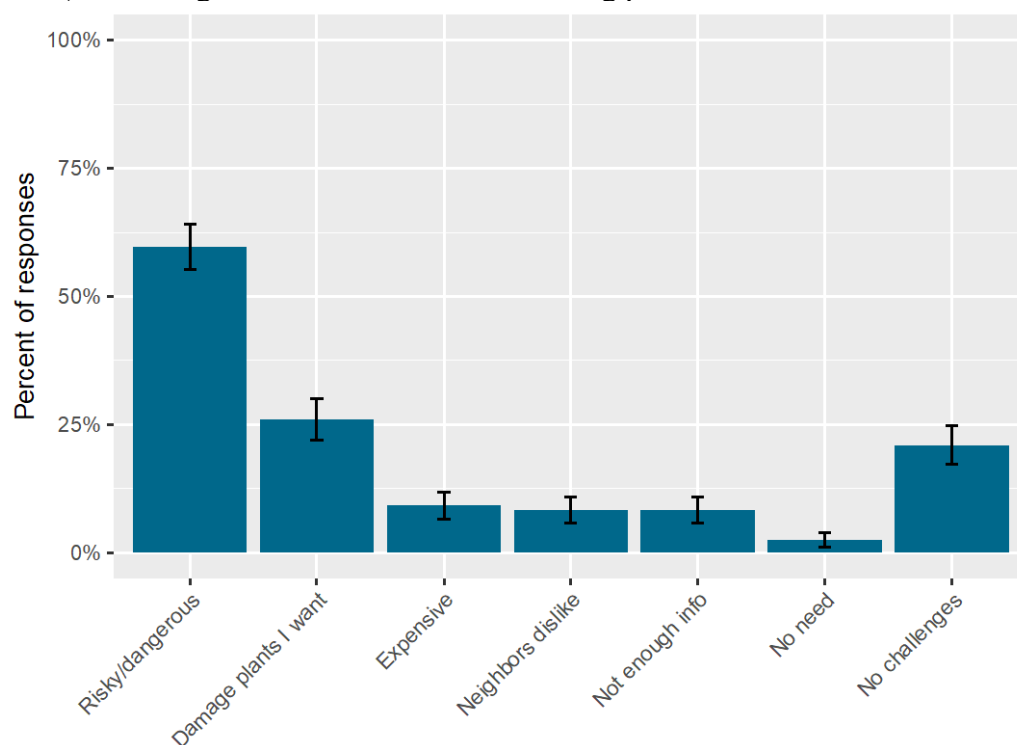
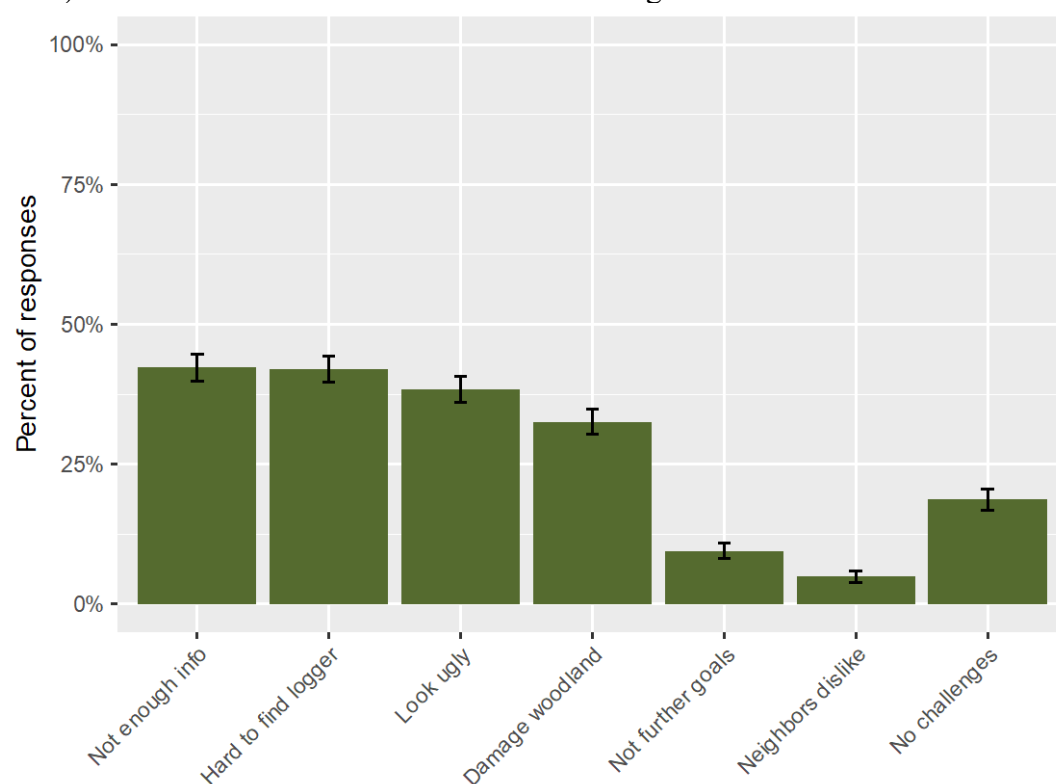
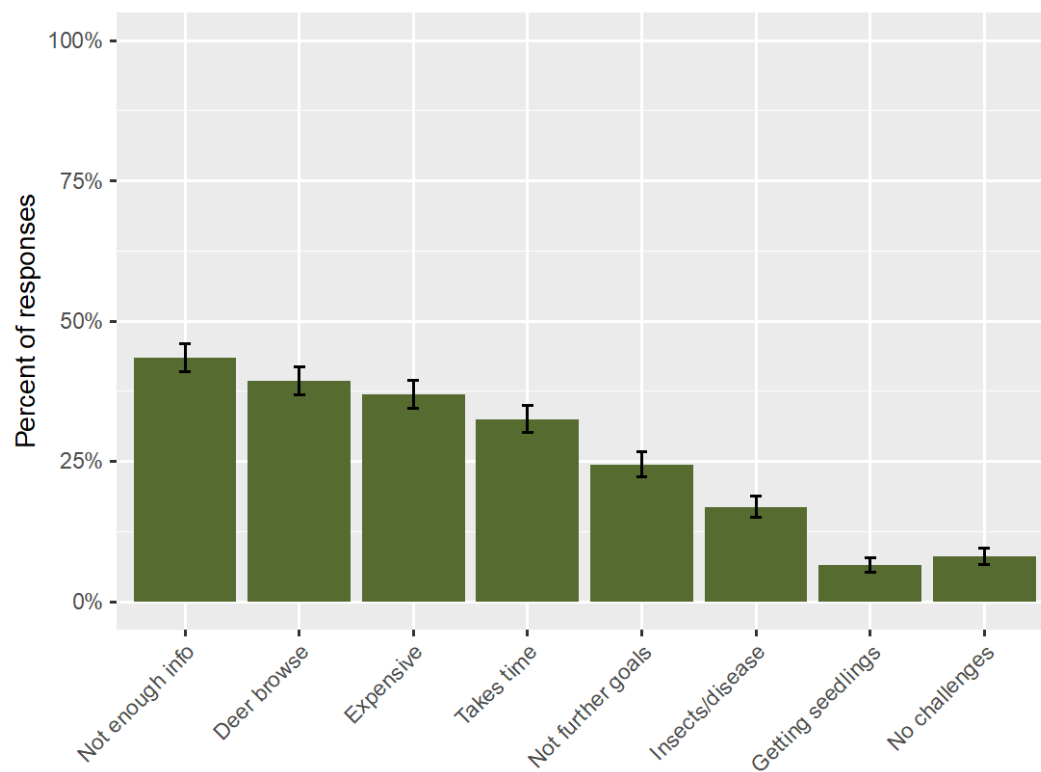


Figure 1. The barriers to management reported by Landowners who are planning to a) cut trees for sale, b) plant trees, c) use herbicides, or d) use prescribed fire.

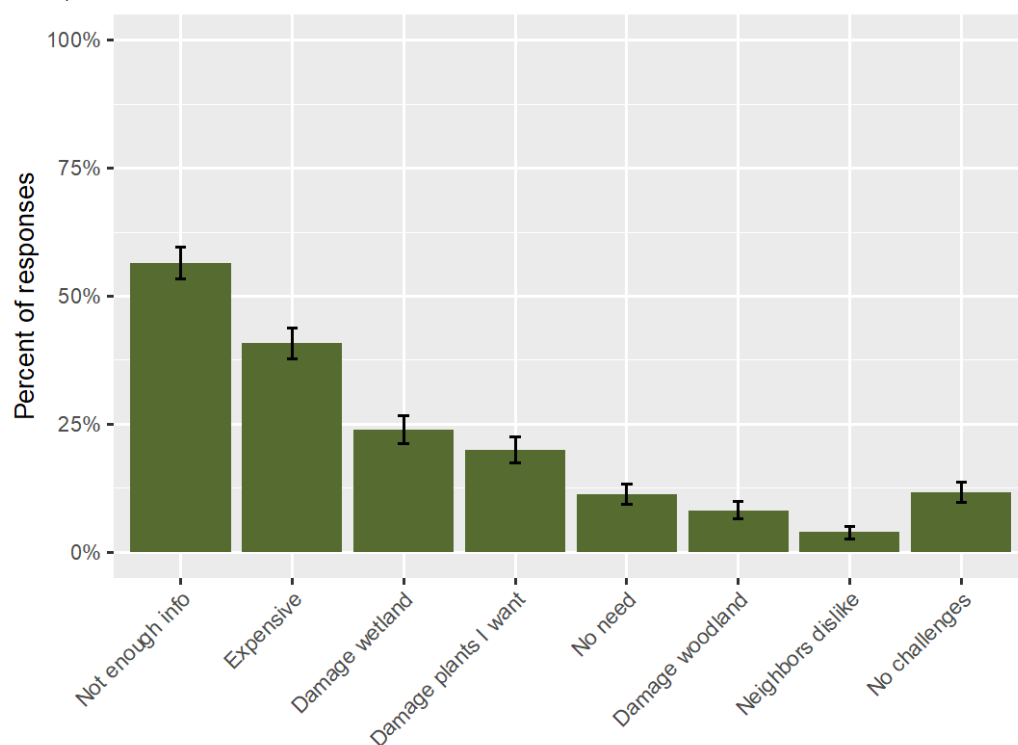
a) Undecided Landowners – barriers to cutting



b) Undecided Landowners – barriers to planting



c) Undecided Landowners – barriers to herbicide use



d) Undecided Landowners – barriers to using prescribed fire

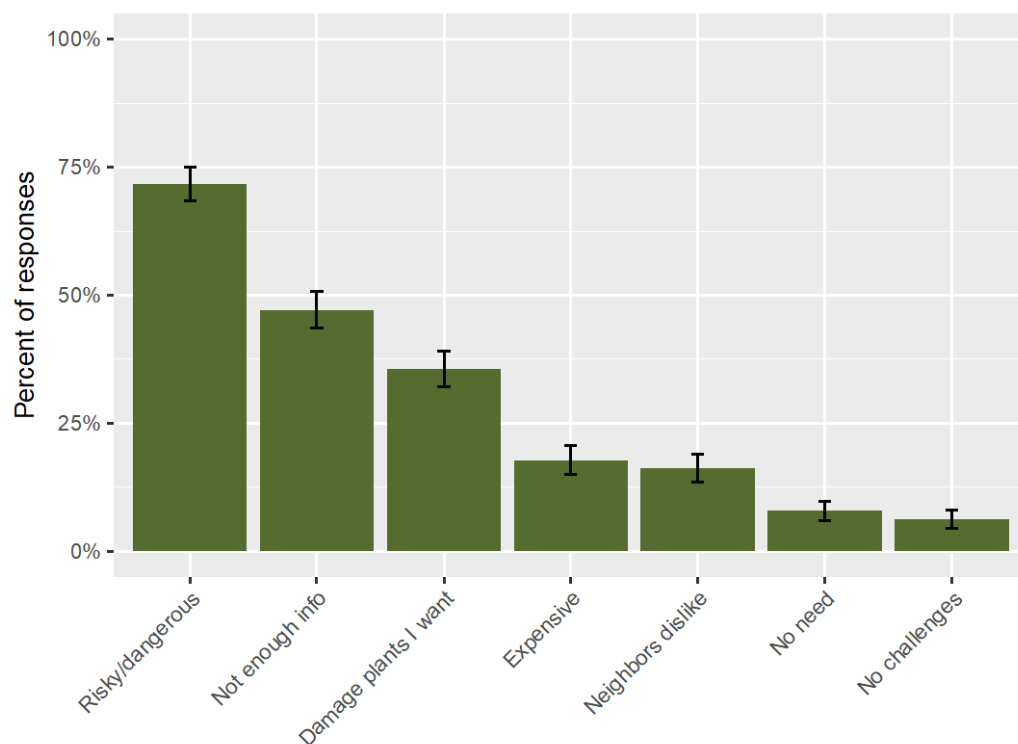


Figure 2. The barriers to management reported by Landowners who have not decided whether or not to a) cut trees for sale, b) plant trees, c) use herbicides, or d) use prescribed fire.

Question 2: What other conclusions can we make based on the results that show money matters to Landowners implementing management actions.

- *Are there particular steps within the management activities where money matters more?*

Our assessment of the impact of money on actions comes from the hypothetical scenario we offered to respondents and their willingness to participate based on certain factors in the scenario. Offering a lower amount paid or higher amount earned per acre increased willingness to participate, as did the presence of cost-sharing. Looking at the interactions between variables, there was no detectable relationship between price and any other variables. This includes the treatment intensity (cutting brush, cutting trees for sale, or cutting trees and using herbicides) and the topic or theme of the program (focusing on deer and turkey, wildlife, wood products, or stewardship). It should be noted that this was a hypothetical scenario, and people may respond differently to real-life choices. Also, we did not ask about cost associated with different steps of the oak management process – this could be an interesting avenue of future research.

The average price per acre offered to a Landowner who accepted the hypothetical program was \$424/acre (i.e. they would earn \$424 per acre for participating; n = 361). The average price offered to a Landowner who refused the program was \$-114/acre (i.e. it would cost them \$114/acre to participate; n = 595). However, it should be noted that it was not a fully balanced question – some activities had more positive options than negative options, and since the questions were randomly allocated a different number of people responded to each question. We will be able to get more refined numbers once we create the full willing to accept/pay models. The takehome here is that breaking even may be important for Landowners to consider participating in a management program.

For the four specific activities we investigated, a similar percent of Landowners who are planning to do the activity and those who have not decided whether or not to do the activity think money is a barrier; it seems that money is a consideration, but not the deciding factor for these activities.

Question 3: Can we see any additional conclusions around parcel size and aesthetics?

- *Is there a tipping point at which a Landowner with a specific parcel size is no longer willing to complete an action for aesthetics/ugliness reasons?*
- *Could we spatially represent results from this question? Would ecoregions or provinces, help to spatially represent this question if the sample size for one state is too small?*

We modeled (using segmented, logistic regression) the relationship between acres of wooded land owned and the Landowner respondents' interest in different harvest intensities. More Landowner respondents were interested in harvesting a few trees per acre than in harvesting at the higher intensities. Overall, 69% of Landowners reported that they were interested in cutting a few trees per acre, 20% were interested in cutting many trees per acre, 10% were interested in cutting many trees per acre clustered together, 5% were interested in cutting most trees per acre, and 5% were interested in cutting all trees per acre. Interest in harvesting a few trees per acre increases with holding size until 502 acres, at which point there is a negative relationship between holding size and interest (Fig. 3a). Interest in harvesting many trees per acre, harvesting many trees per acre clustered together, harvesting most trees per acre, and harvesting all trees per acre increased with size of holdings (Fig. 3b-e). For harvesting trees clustered together, the relationship is not significant for holdings 92 acres and larger.

We also compared people viewing harvesting looking ugly as a barrier based on the amount of wooded land they own. There is no relationship between the size of Landowner respondent holdings and their likeliness of reporting ugliness as a barrier to harvesting.

These are oversimplified models that allow more insight into this one dynamic, but they do not account for location, demographics, objectives, or other factors. We hope to explore these in future analyses.

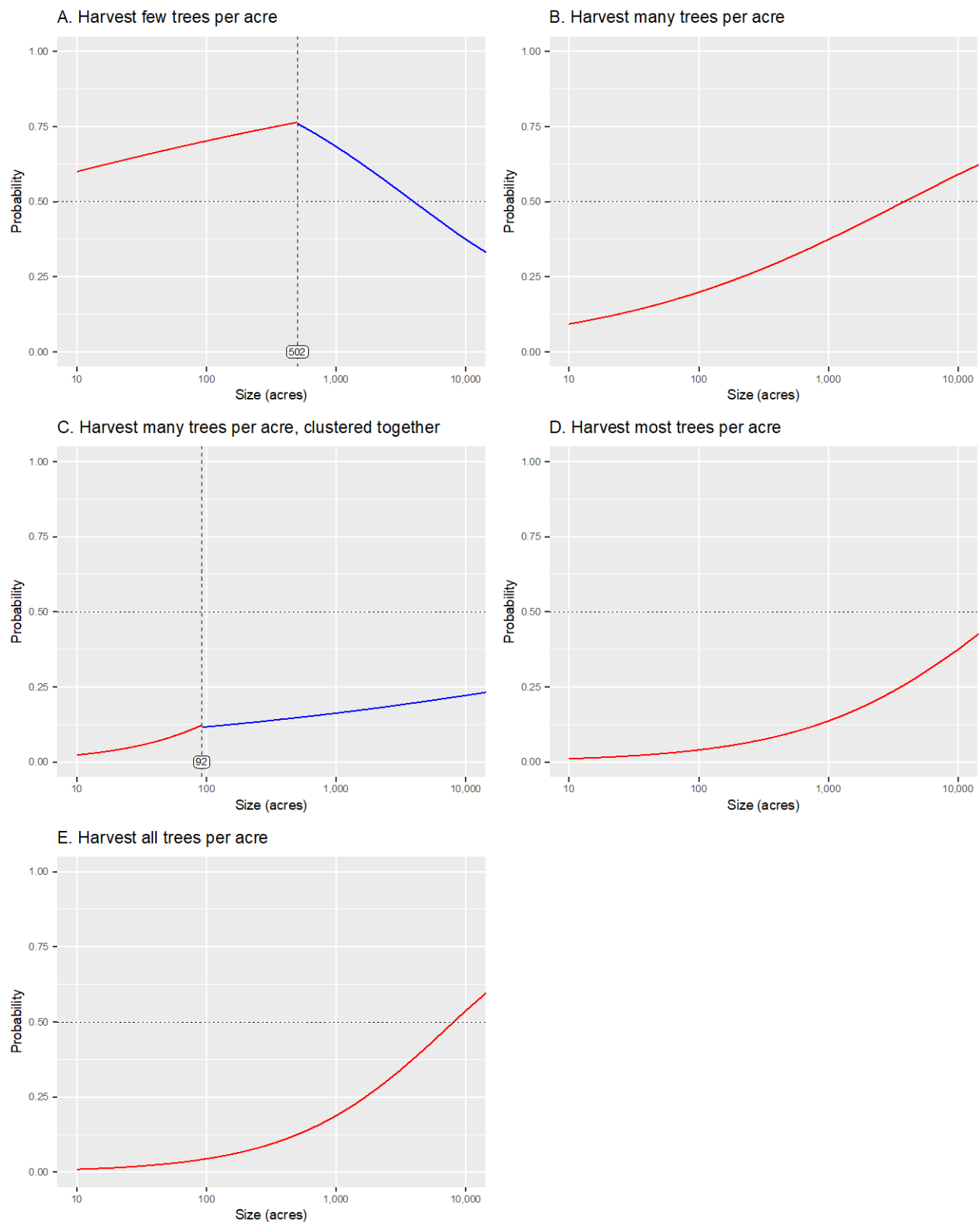


Figure 3. Relationship between size of Landowner holdings and their interest in a) harvesting a few trees per acre, b) harvesting many trees per acre, c) harvesting many trees per acre clustered together, d) harvesting most trees per acre, and e) harvesting all trees per acre.

We also looked at the percent of Landowner respondents in each state who are interested in different harvest intensities. A large percent of Landowners in each state were interested in cutting a few trees per acre (Fig. 4). There was much less interest in the higher-intensity cuttings, such as cutting many trees per acre (Fig. 5), but interest was highest in Iowa and Wisconsin. There was less interest in the other harvest intensities, including cutting many trees per acre clustered together, cutting most trees per acre, and cutting all trees per acre.

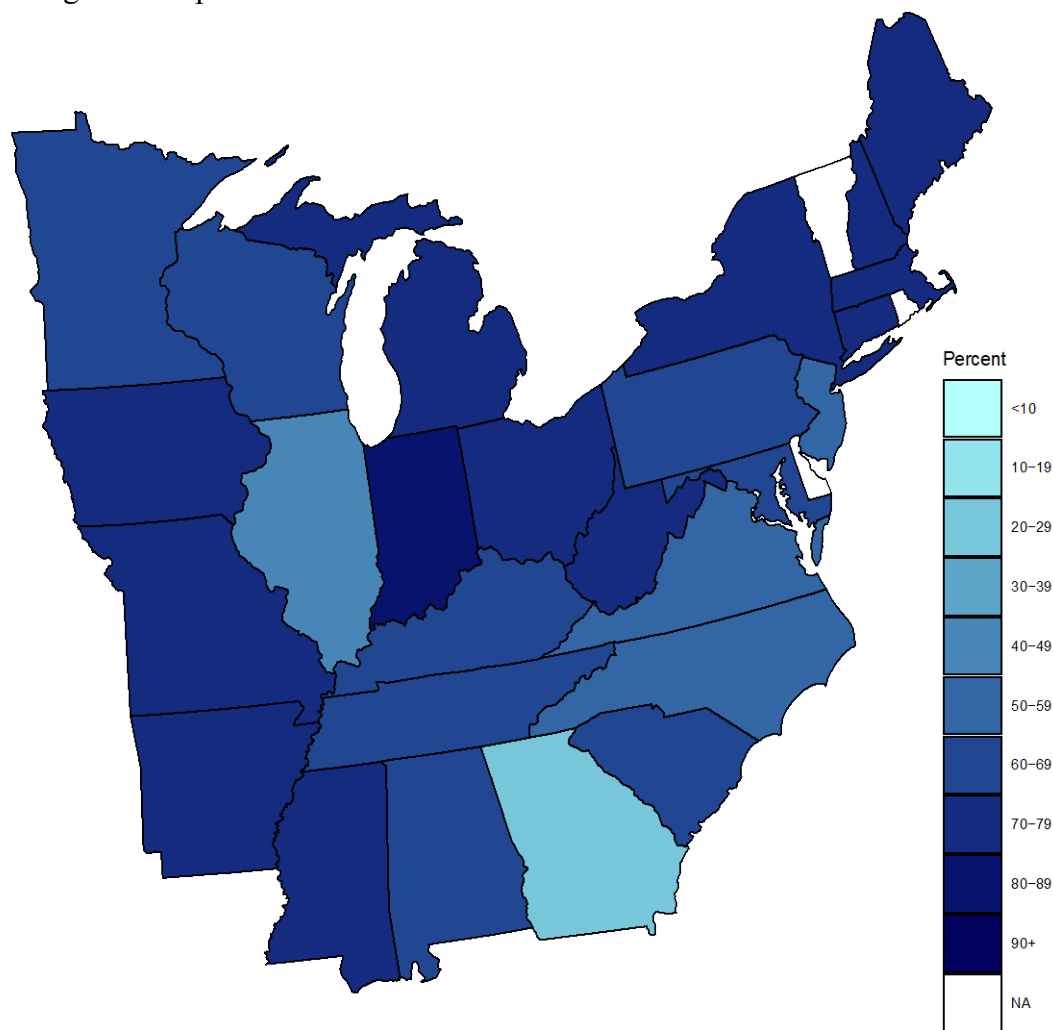


Figure 4. Percent of Landowner respondents in each state who were interested in cutting a few trees per acre on part of their wooded land.

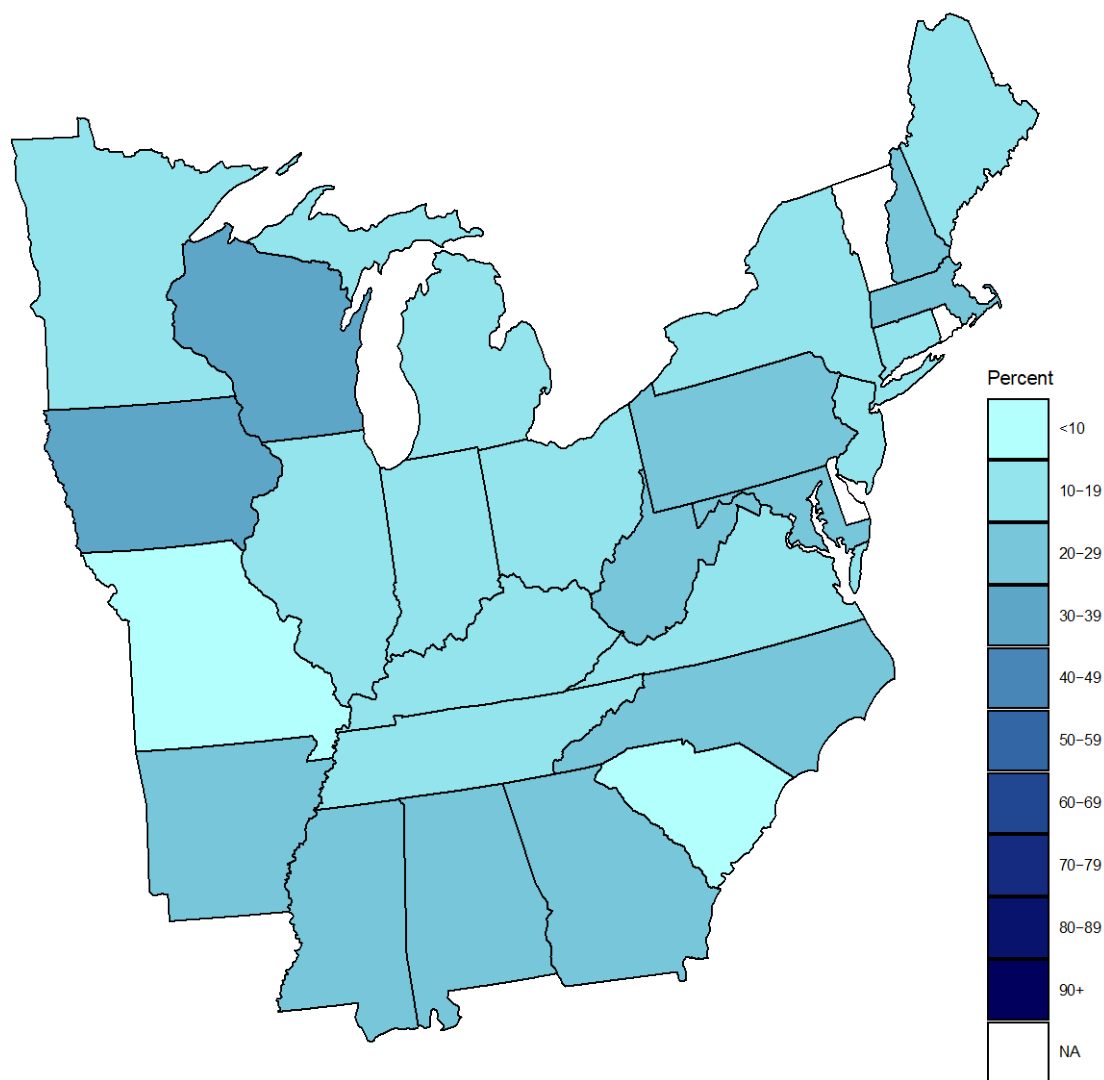


Figure 5. Percent of Landowner respondents in each state who were interested in cutting many trees per acre on part of their wooded land.

Question 4: Dig into communicating with Landowners

- *Does getting a variety of information from multiple sources lead to more action/a higher likelihood the Landowner will take action?*
- *Is there specific language that had positive (leads to oak management) correlation in the survey results?*

The reported rate of taking an action generally increases with the number of sources of information. For some actions, like having a management plan (Fig. 6) or cutting trees for sale (Fig. 7), the biggest jump appears to be between zero sources of information and one source. For others, like planting, using herbicides, or using fire, there seems to be a general increase in the activity with more sources of information (Fig. 7). This relationship is not necessarily causal – it is possible that those who are more interested in an activity seek out more sources of information, or Landowners who are generally more interested in their land receive more sources of information and are more interested in these management practices. That being said, there are still insights that can be gained.

Program theme – including language about deer and turkey habitat, wildlife habitat, wood products including bourbon barrels, and good stewardship – did not affect whether or not people accepted the hypothetical oak management program. However, it is possible that other themes, or themes presented in a different way or in a non-hypothetical scenario, could impact enrollment. We did not explicitly test messages in this survey, but that could be helpful future research.

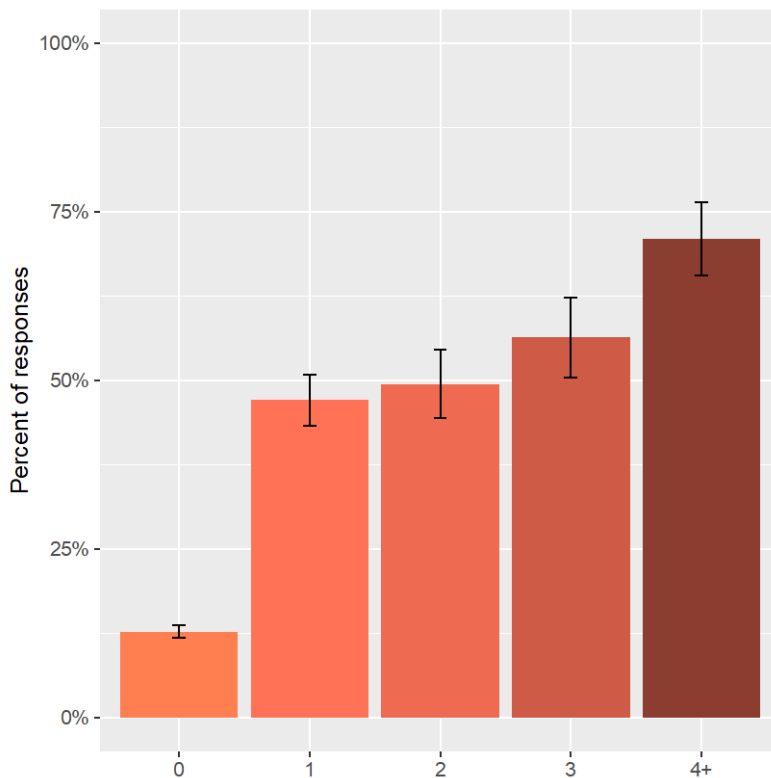


Figure 6. The percent of Landowner respondents who have a written management plan, based on the number of sources of information they have received about their wooded land.

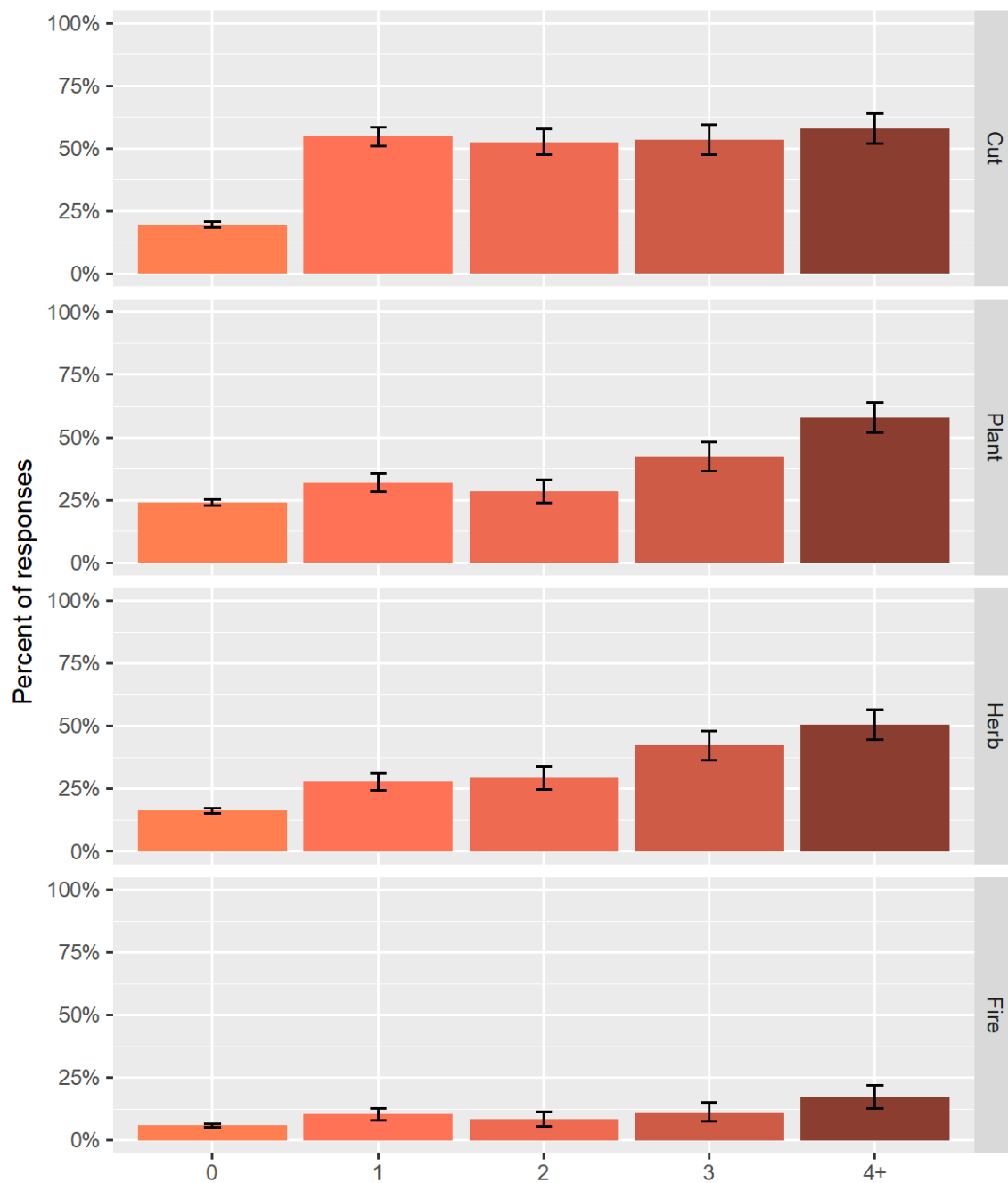


Figure 7. The percent of Landowner respondents who are planning to do each activity, based on the number of sources of information they have received about their wooded land.

Methodology

Sample selection

Landowners were selected based on their ownership of land located within the Central Hardwoods boundary (Braun 1950). Using ArcGIS, 150,000 points were randomly allocated throughout this region. Points were then filtered by a forest cover layer to determine which points were likely forested. Points were further filtered by the Protected Areas Database of the United States (PAD-US) to remove points that were known to be publicly owned (USGS 2018). Ownership and contact information for each point was extracted, and parcels smaller than 10 acres were removed from the sample. This list of owners was manually checked to remove those who were not families or individuals (e.g. corporate, public) and to remove duplicate owners. From this final mailing list, 20,000 landowners were randomly selected to receive the survey invitation.

Tree Farmers were selected based on the email addresses provided by American Forest Foundation for states in the central hardwood region, so that Tree Farmers could be compared to Landowners at the state level. For emails that appeared more than once in the list, duplicates were removed. A total of 8,164 Tree Farmer emails were included in the final email list.

Survey implementation

The online survey was developed using the platform Qualtrics. Qualtrics allows a variety of question types and enables tracking by both unique access code and unique survey link.

Questions for the survey were developed by the FFRC team in consultation with subject matter

White Oak Initiative Landowner Survey 2020 Final Project Report - **Appendix 1**

experts and AFF staff. The online survey was pre-tested with cognitive interviews with seven Tree Farmers to determine that questions were understandable, reasonable to answer, and correctly interpretable.

Landowners were contacted with a three-wave paper mailing, following the Tailored Design Method (Dillman et al. 2014). The first mailing was a postcard informing landowners that they had been selected for a study. The second mailing was a letter describing the project, with information on how to access the survey online and a unique access code to take the survey. The third mailing, sent only to those who had not yet completed the survey online, was a postcard reminder, which also provided information to access the survey online and the same unique access code.

Tree Farmers were contacted with a two-wave email. The first email described the project, invited recipients to participate in the survey, and provided a unique link to the survey. The second email, sent a week later to those who had not yet completed the survey, provided a reminder and the same unique link to the survey.

Landowners with fewer than 10 acres of wooded land were removed from the results. Summary figures for each question were created to compare the responses from Landowners to those from Tree Farmers for each survey question. All figures are shown in terms of percent or number of respondents; error bars represent sampling error (Dillman et al. 2014).

White Oak Initiative Landowner Survey 2020 Final Project Report - **Appendix 1**

Non-response bias was quantified by comparing results from the 2018 Woodland Owner Survey to those from the NWOS for comparable questions. Additionally, phone calls will be made to 250 individuals who did not respond to the survey to conduct a shortened version of the survey. Results from that analyses will be included in this report as an addendum.

Literature Cited

Dillman, D.A., Smyth, J.D., and Christian, L.M. 2014. Internet, phone, mail, and mixed-mode surveys: The tailored design method, 4th Edition. Wiley & Sons, Hoboken, NJ. 528 pp.

U.S. Geological Survey (USGS) Gap Analysis Project (GAP), 2018, Protected Areas Database of the United States (PADUS): U.S. Geological Survey data release, <https://doi.org/10.5066/P955KPLE>.

WOI_LO_summary

Emma Sass, Brett Butler, Amanda Robillard, Jesse Caputo

2020-07-23

For all figures:

Number of landowners contacted (mail): 20,000

Number of landowners not reached (bounced or deceased, etc.): 16

Number of responses: 1589

Cooperation rate: 8.0%

Number of Tree Farmers contacted (email): 8,164

Number of Tree Farmers not reached (email bounced or land sold, etc.): 952Number of responses: 1609

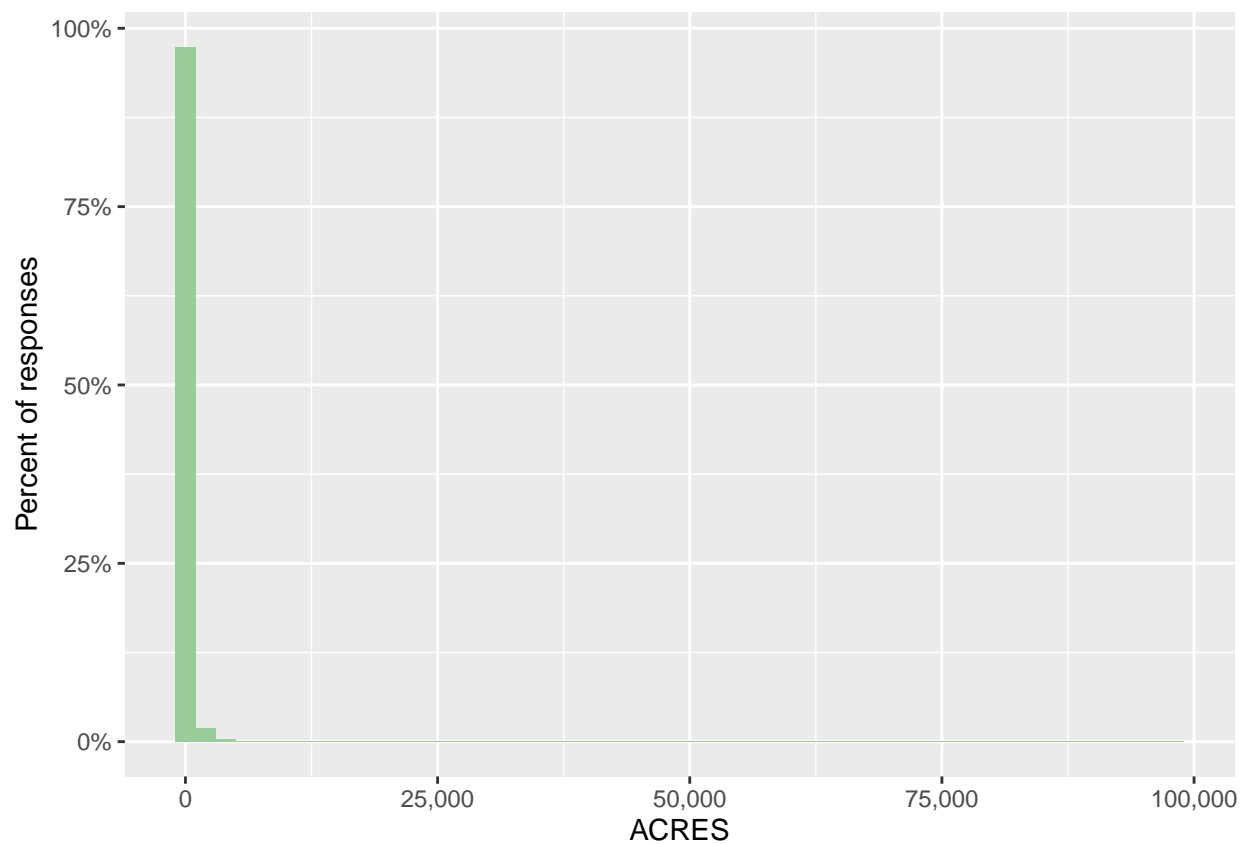
Cooperation rate: 22.3%

Survey respondents

- Landowners (Randomly selected)
- Tree Farmers

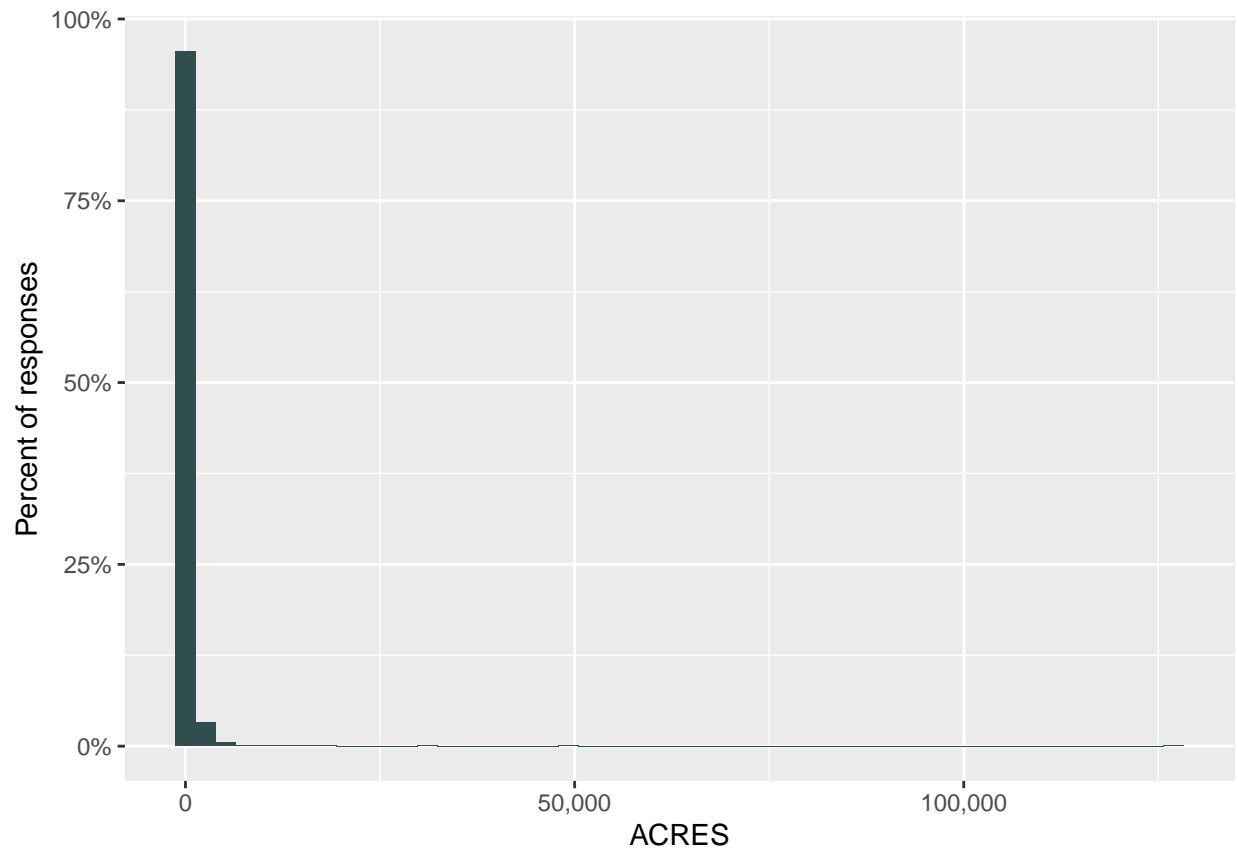
AC_WOOD

How many acres of wooded land do you currently own in STATE?



Landowner totals

| Min. | 1st Qu. | Median | Mean | 3rd Qu. | Max. |
|------|---------|--------|----------|---------|-------|
| 0 | 30 | 79 | 280.2636 | 170.5 | 98000 |

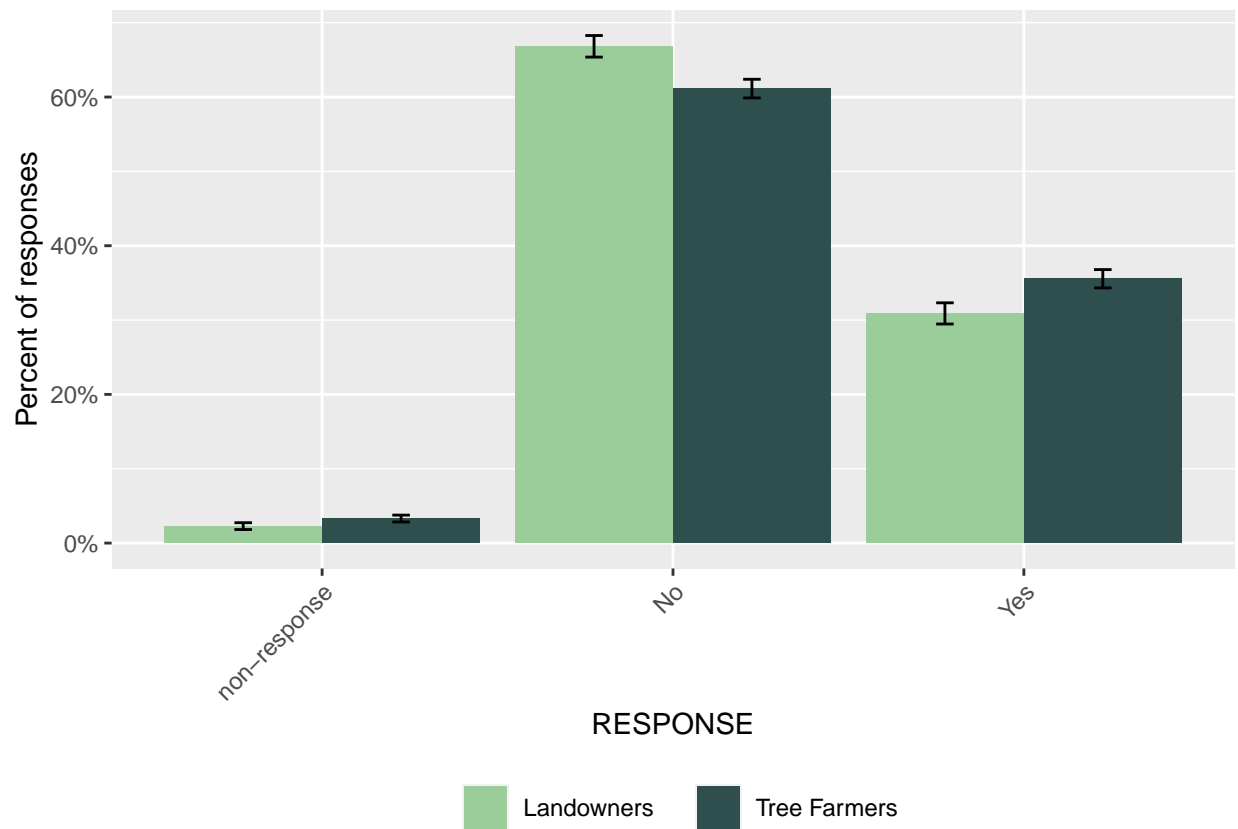


Tree Farmer totals

| Min. | 1st Qu. | Median | Mean | 3rd Qu. | Max. |
|------|---------|--------|----------|---------|--------|
| 0 | 50 | 110 | 479.4015 | 260 | 127000 |

PARCEL

Do you currently own more than one separate, unconnected property with wooded land in STATE?



Landowner totals

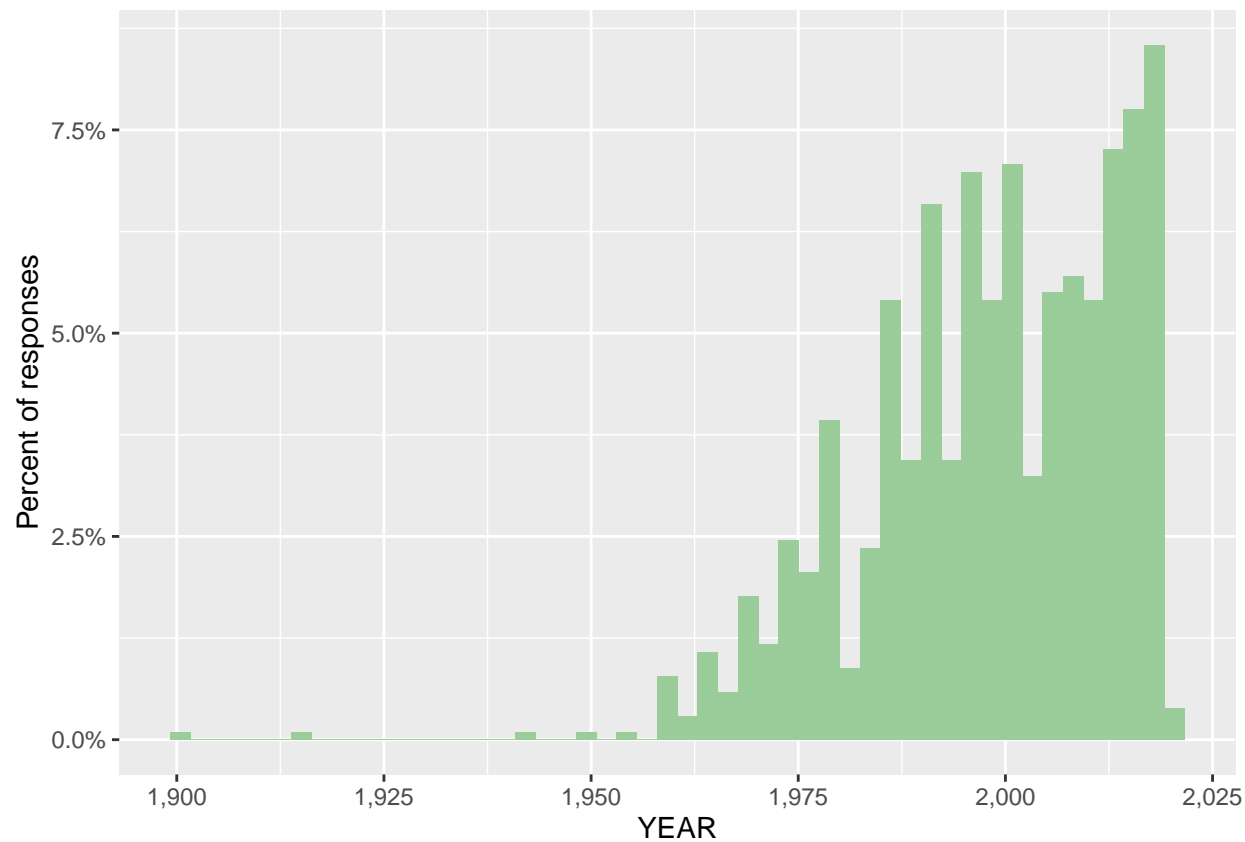
| | n |
|--------------|-----|
| non-response | 24 |
| No | 703 |
| Yes | 325 |

Tree Farmer totals

| | n |
|--------------|-----|
| non-response | 50 |
| No | 925 |
| Yes | 538 |

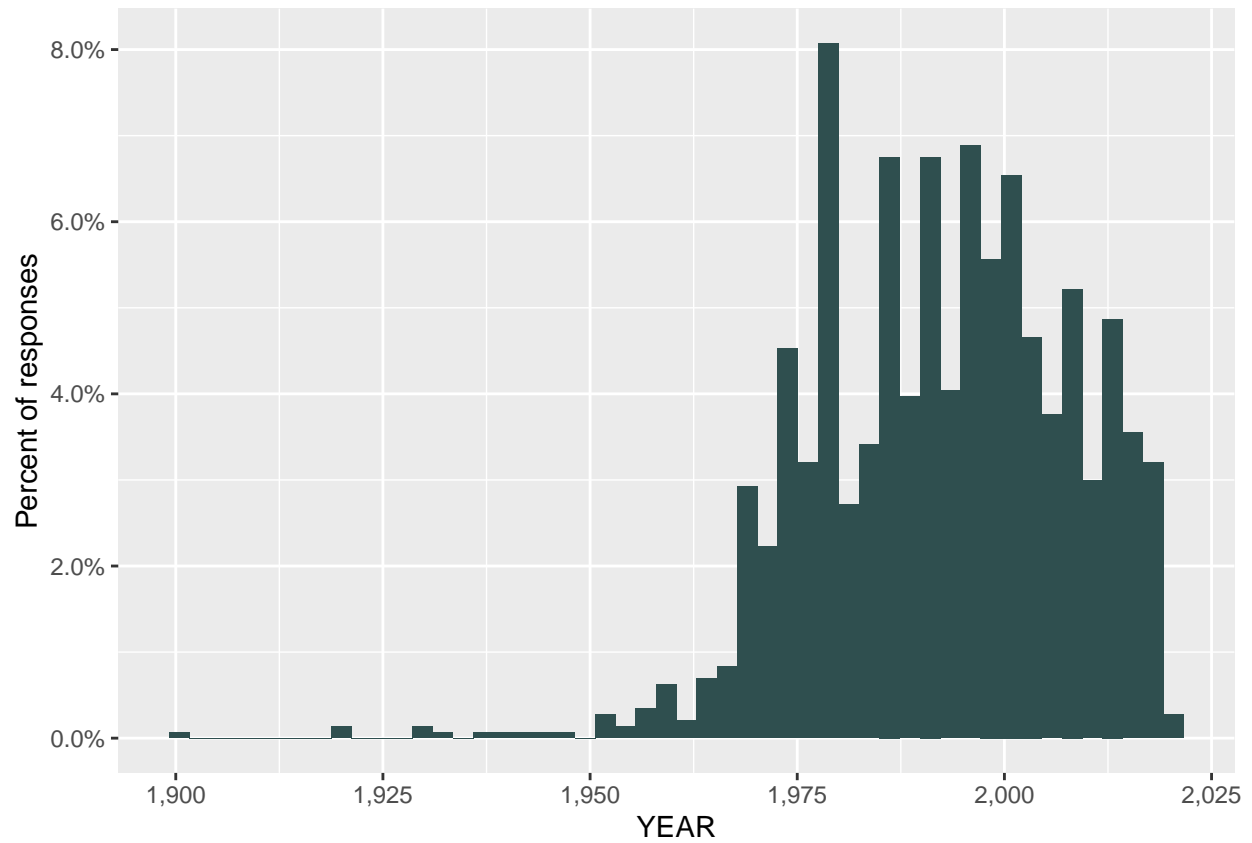
YEAR_ACQUIRE

In what year did you, personally, first take ownership of your wooded land?



Landowner totals

| Min. | 1st Qu. | Median | Mean | 3rd Qu. | Max. |
|------|---------|--------|----------|---------|------|
| 1900 | 1988 | 2000 | 1998.132 | 2011 | 2020 |

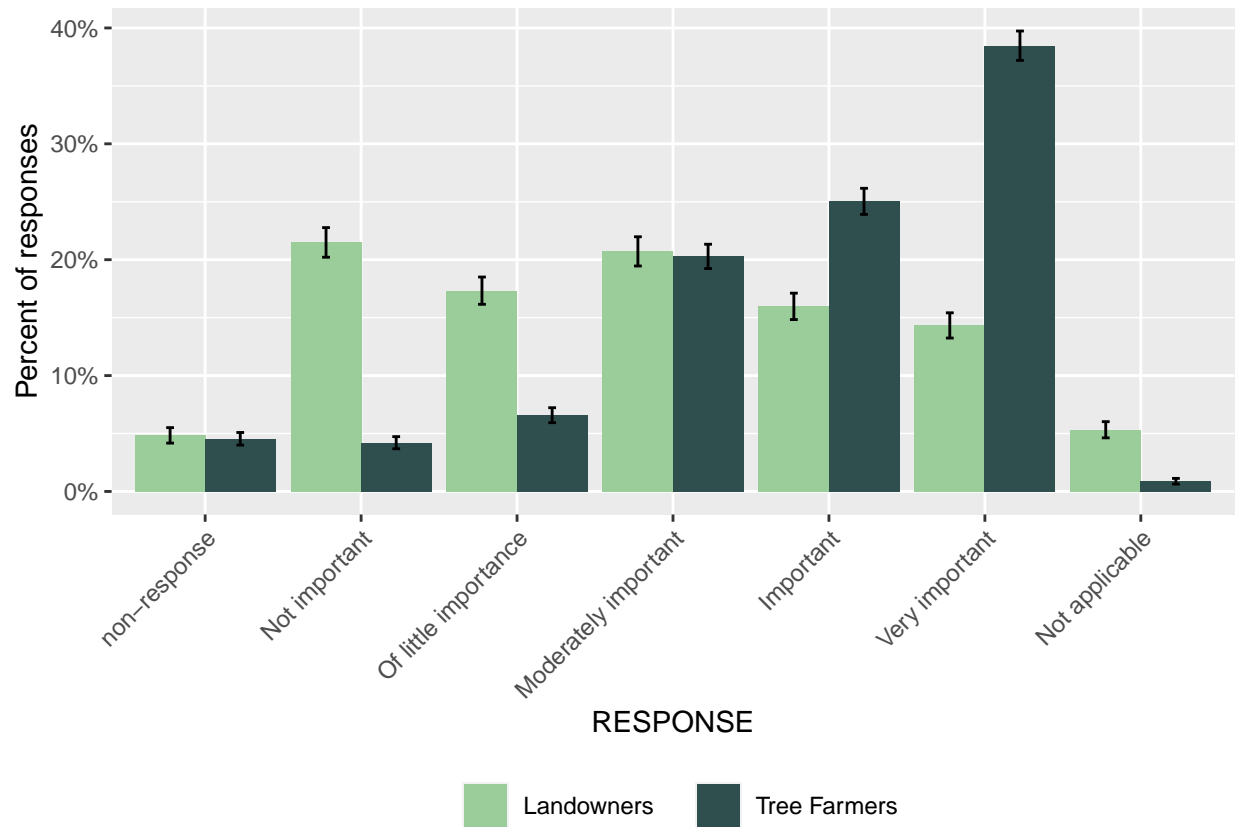


Tree Farmer totals

| Min. | 1st Qu. | Median | Mean | 3rd Qu. | Max. |
|------|---------|--------|----------|---------|------|
| 1900 | 1981 | 1994 | 1992.341 | 2004 | 2020 |

OBJ_TIMBER

How important are the following as reasons for why you currently own your wooded land? For timber products, such as logs or pulpwood



Landowner totals

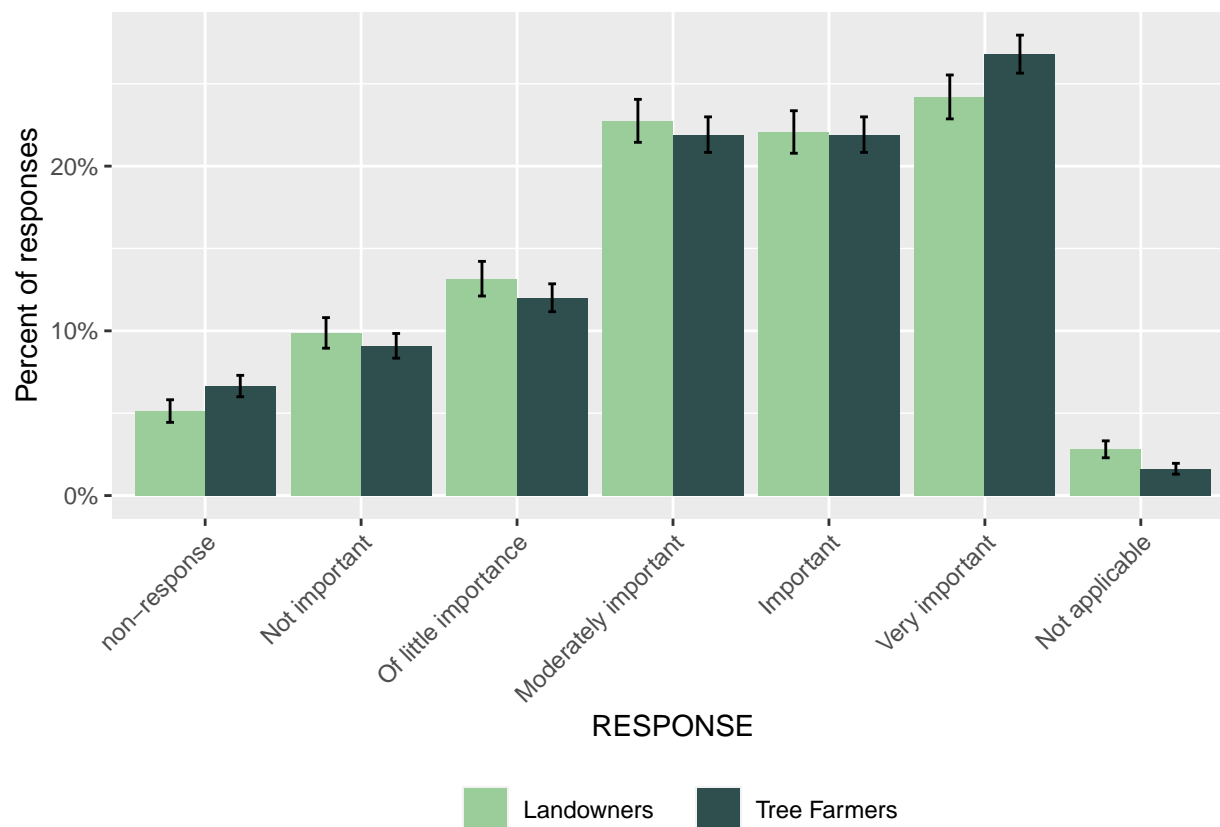
| | n |
|----------------------|-----|
| non-response | 50 |
| Not important | 222 |
| Of little importance | 179 |
| Moderately important | 214 |
| Important | 165 |
| Very important | 148 |
| Not applicable | 55 |

Tree Farmer totals

| | n |
|----------------------|-----|
| non-response | 67 |
| Not important | 62 |
| Of little importance | 97 |
| Moderately important | 299 |
| Important | 369 |
| Very important | 567 |
| Not applicable | 13 |

OBJ_LAND

How important are the following as reasons for why you currently own your wooded land? For land investment



Landowner totals

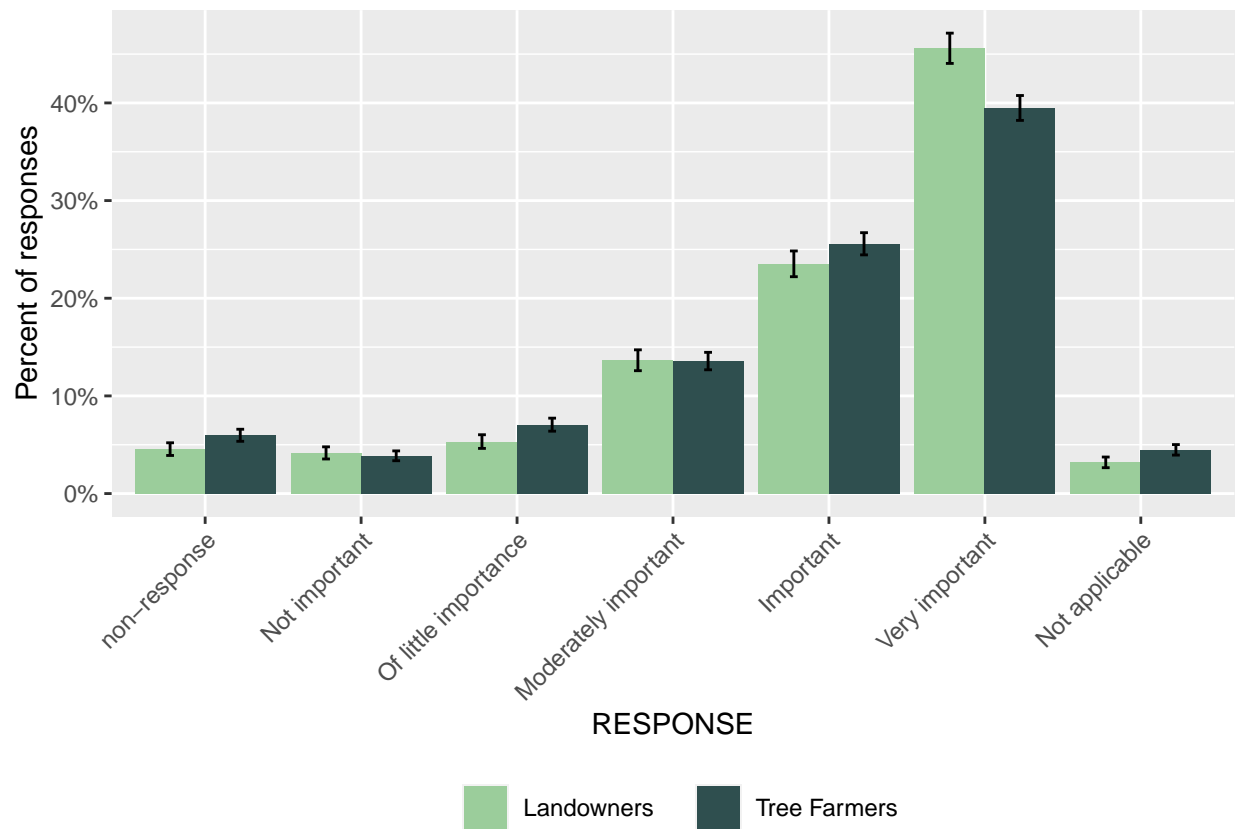
| | n |
|----------------------|-----|
| non-response | 53 |
| Not important | 102 |
| Of little importance | 136 |
| Moderately important | 235 |
| Important | 228 |
| Very important | 250 |
| Not applicable | 29 |

Tree Farmer totals

| | n |
|----------------------|-----|
| non-response | 98 |
| Not important | 134 |
| Of little importance | 177 |
| Moderately important | 323 |
| Important | 323 |
| Very important | 395 |
| Not applicable | 24 |

OBJ_PRIV

How important are the following as reasons for why you currently own your wooded land? For privacy



Landowner totals

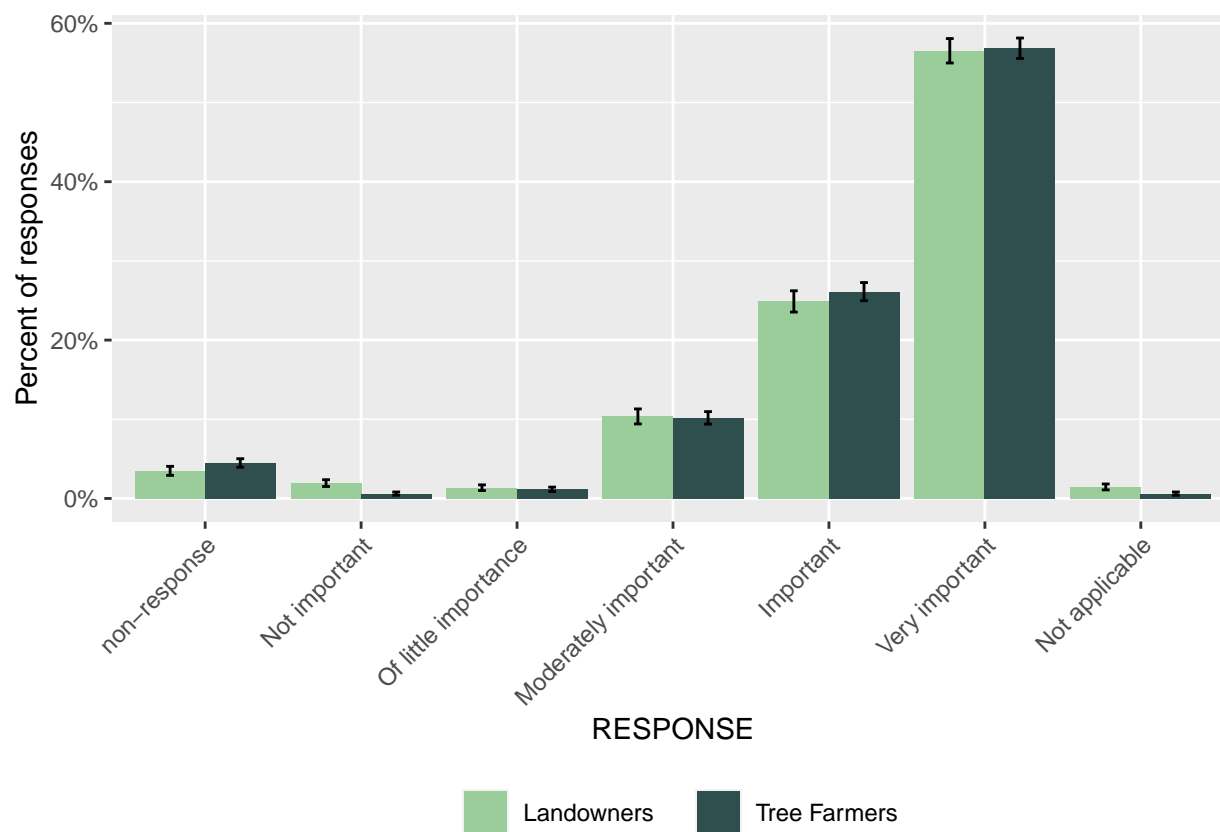
| | n |
|----------------------|-----|
| non-response | 47 |
| Not important | 43 |
| Of little importance | 55 |
| Moderately important | 141 |
| Important | 243 |
| Very important | 471 |
| Not applicable | 33 |

Tree Farmer totals

| | n |
|----------------------|-----|
| non-response | 88 |
| Not important | 57 |
| Of little importance | 104 |
| Moderately important | 200 |
| Important | 377 |
| Very important | 582 |
| Not applicable | 66 |

OBJ_BEA

How important are the following as reasons for why you currently own your wooded land? To enjoy beauty or scenery



Landowner totals

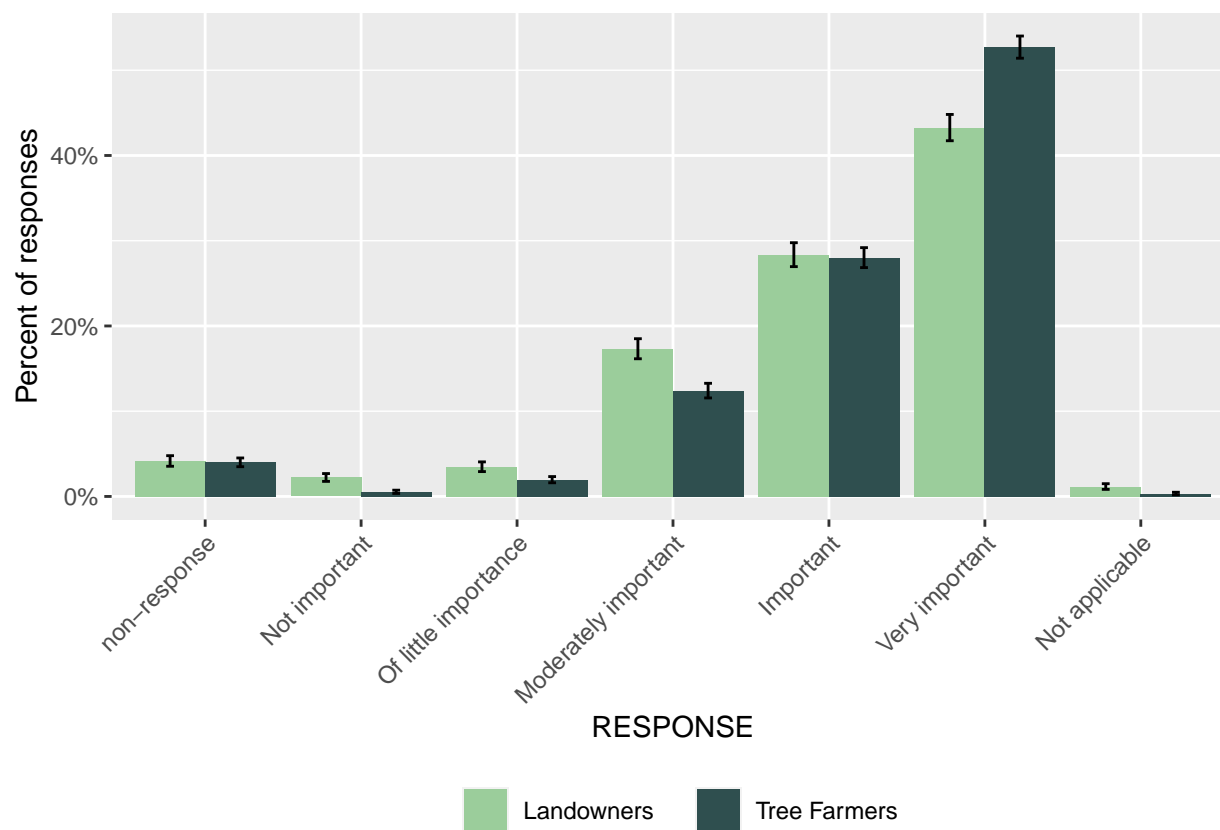
| | n |
|----------------------|-----|
| non-response | 36 |
| Not important | 20 |
| Of little importance | 14 |
| Moderately important | 107 |
| Important | 257 |
| Very important | 584 |
| Not applicable | 15 |

Tree Farmer totals

| | n |
|----------------------|-----|
| non-response | 66 |
| Not important | 9 |
| Of little importance | 17 |
| Moderately important | 150 |
| Important | 385 |
| Very important | 838 |
| Not applicable | 9 |

OBJ_WILD

How important are the following as reasons for why you currently own your wooded land? To protect or improve wildlife habitat



Landowner totals

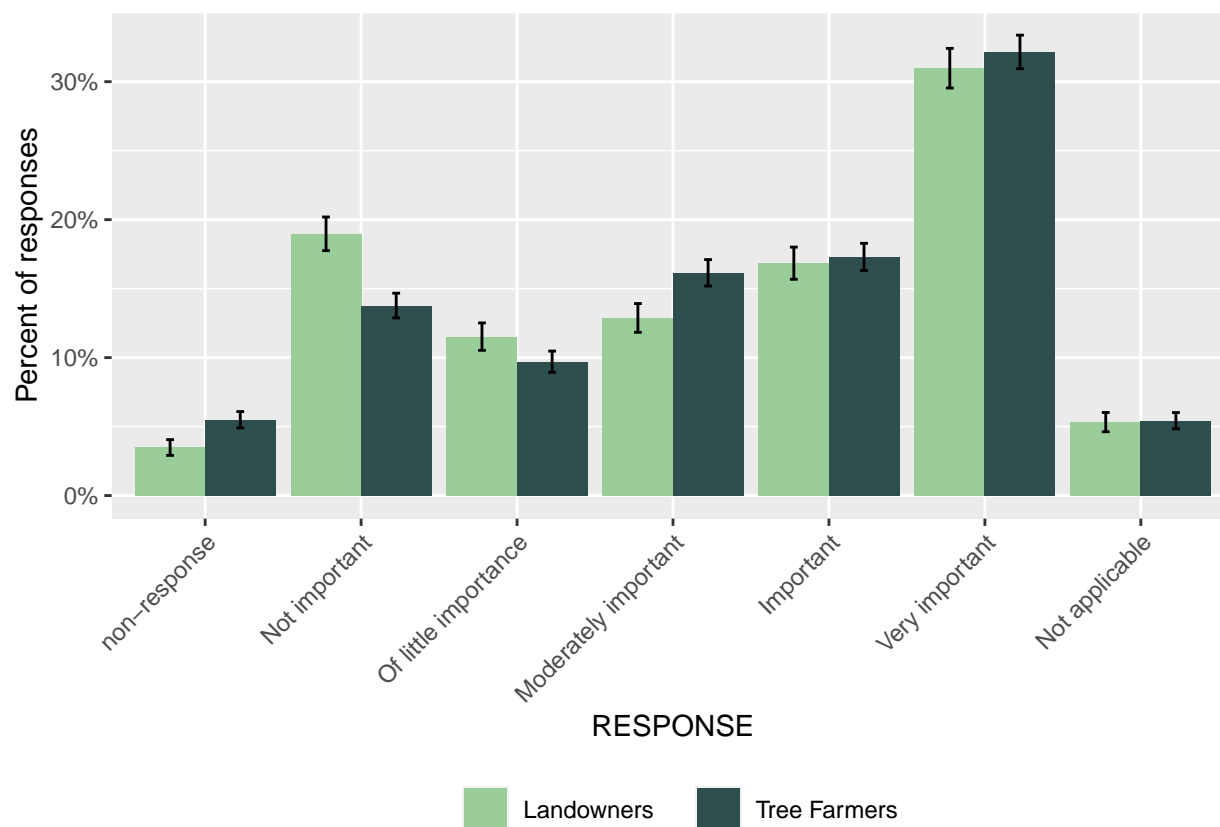
| | n |
|----------------------|-----|
| non-response | 43 |
| Not important | 23 |
| Of little importance | 36 |
| Moderately important | 179 |
| Important | 293 |
| Very important | 447 |
| Not applicable | 12 |

Tree Farmer totals

| | n |
|----------------------|-----|
| non-response | 59 |
| Not important | 8 |
| Of little importance | 29 |
| Moderately important | 183 |
| Important | 413 |
| Very important | 777 |
| Not applicable | 5 |

OBJ_HUNT

How important are the following as reasons for why you currently own your wooded land? For hunting



Landowner totals

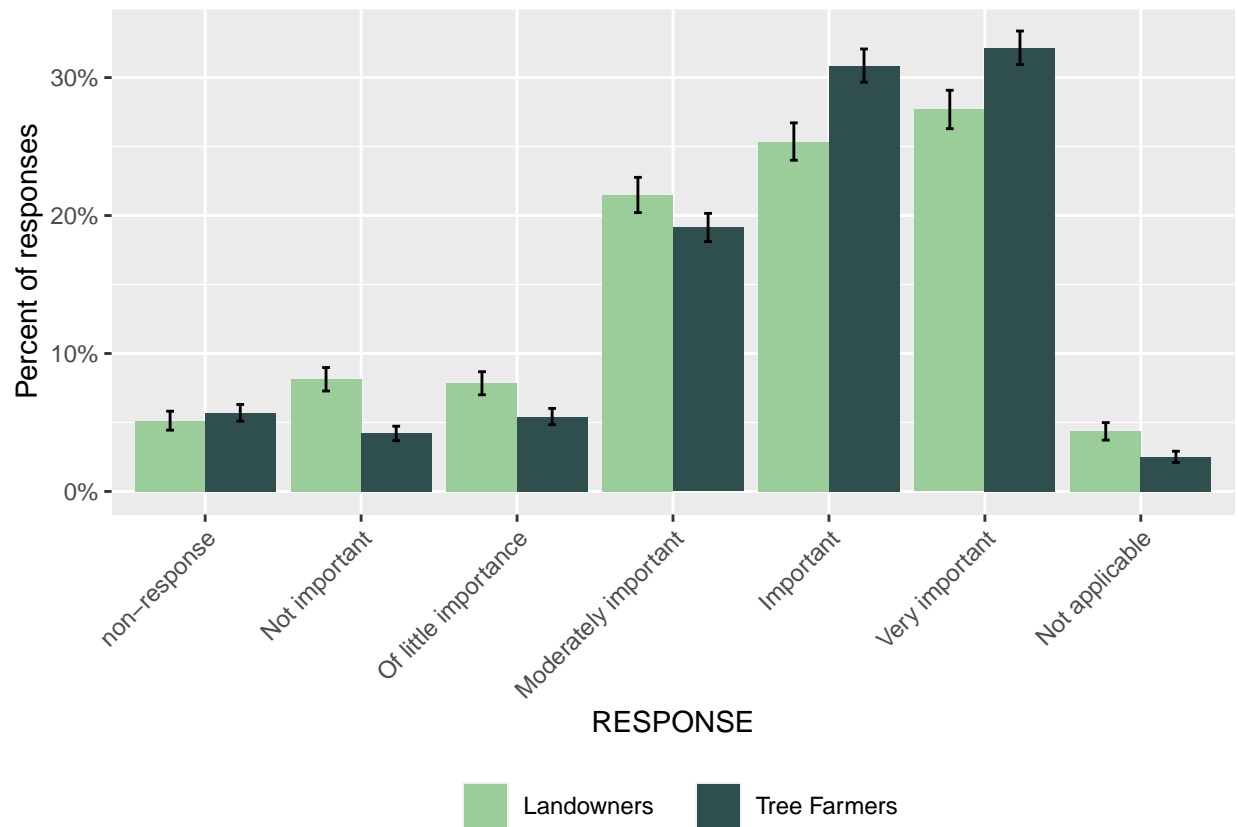
| | n |
|----------------------|-----|
| non-response | 36 |
| Not important | 196 |
| Of little importance | 119 |
| Moderately important | 133 |
| Important | 174 |
| Very important | 320 |
| Not applicable | 55 |

Tree Farmer totals

| | n |
|----------------------|-----|
| non-response | 81 |
| Not important | 203 |
| Of little importance | 143 |
| Moderately important | 238 |
| Important | 255 |
| Very important | 474 |
| Not applicable | 80 |

OBJ_REC

How important are the following as reasons for why you currently own your wooded land? For recreation other than hunting



Landowner totals

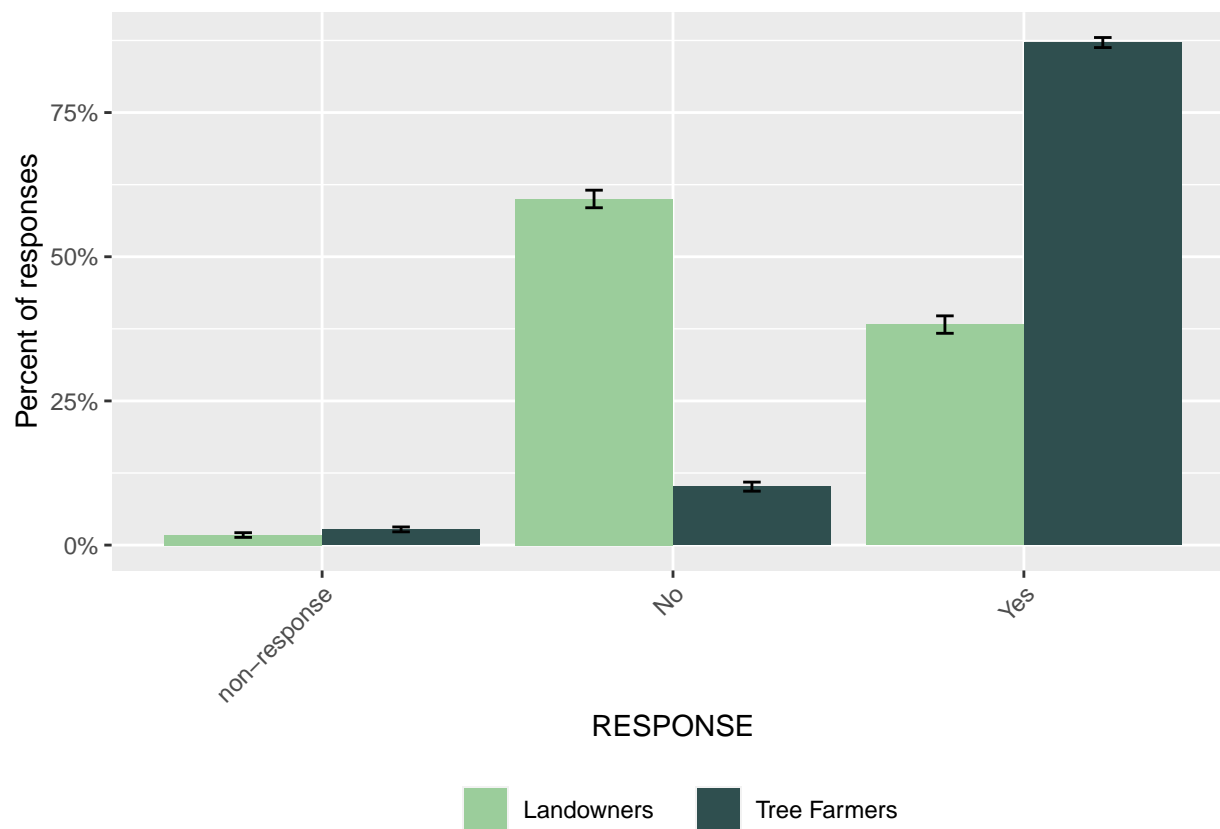
| | n |
|----------------------|-----|
| non-response | 53 |
| Not important | 84 |
| Of little importance | 81 |
| Moderately important | 222 |
| Important | 262 |
| Very important | 286 |
| Not applicable | 45 |

Tree Farmer totals

| | n |
|----------------------|-----|
| non-response | 84 |
| Not important | 62 |
| Of little importance | 80 |
| Moderately important | 282 |
| Important | 455 |
| Very important | 474 |
| Not applicable | 37 |

ADV_PAST

I have received advice about my wooded land in the past 5 years



Landowner totals

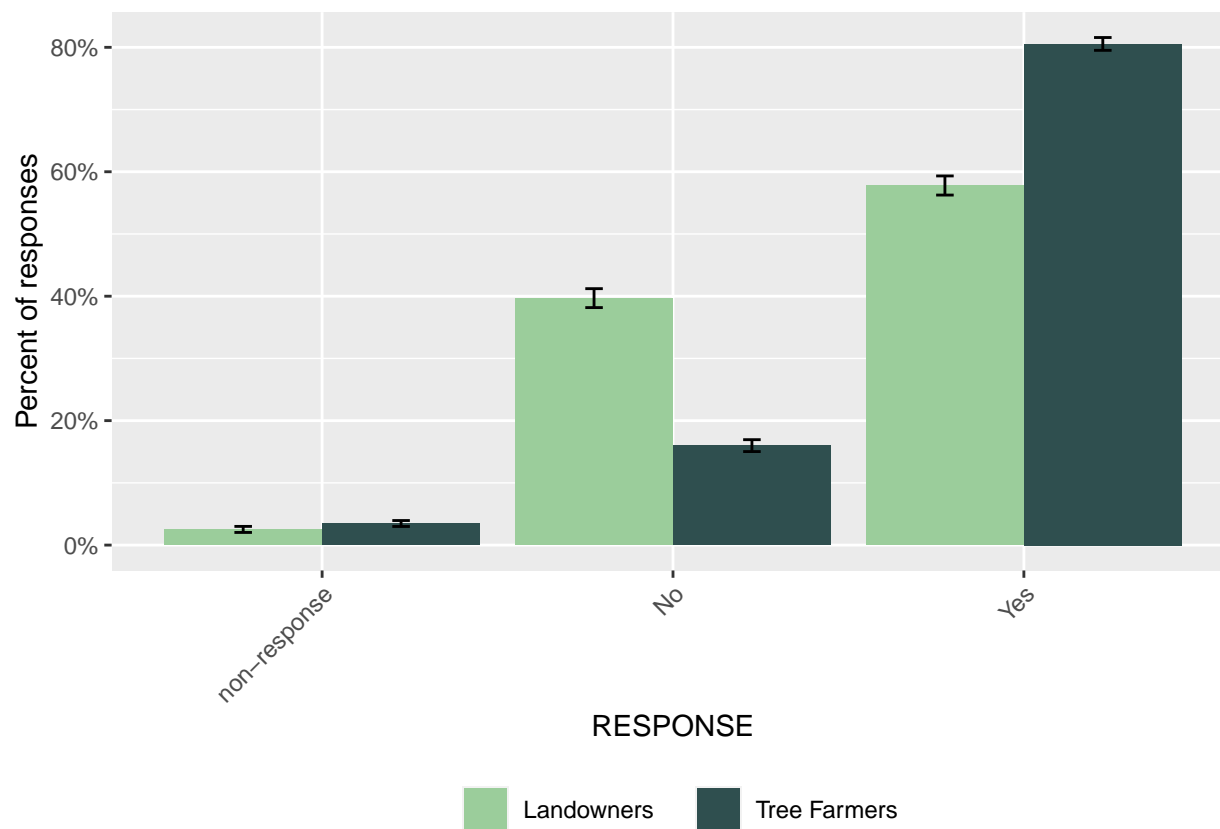
| | n |
|--------------|-----|
| non-response | 18 |
| No | 620 |
| Yes | 395 |

Tree Farmer totals

| | n |
|--------------|------|
| non-response | 40 |
| No | 149 |
| Yes | 1281 |

ADV_FUT

I want to receive advice about my wooded land in the next 5 years



Landowner totals

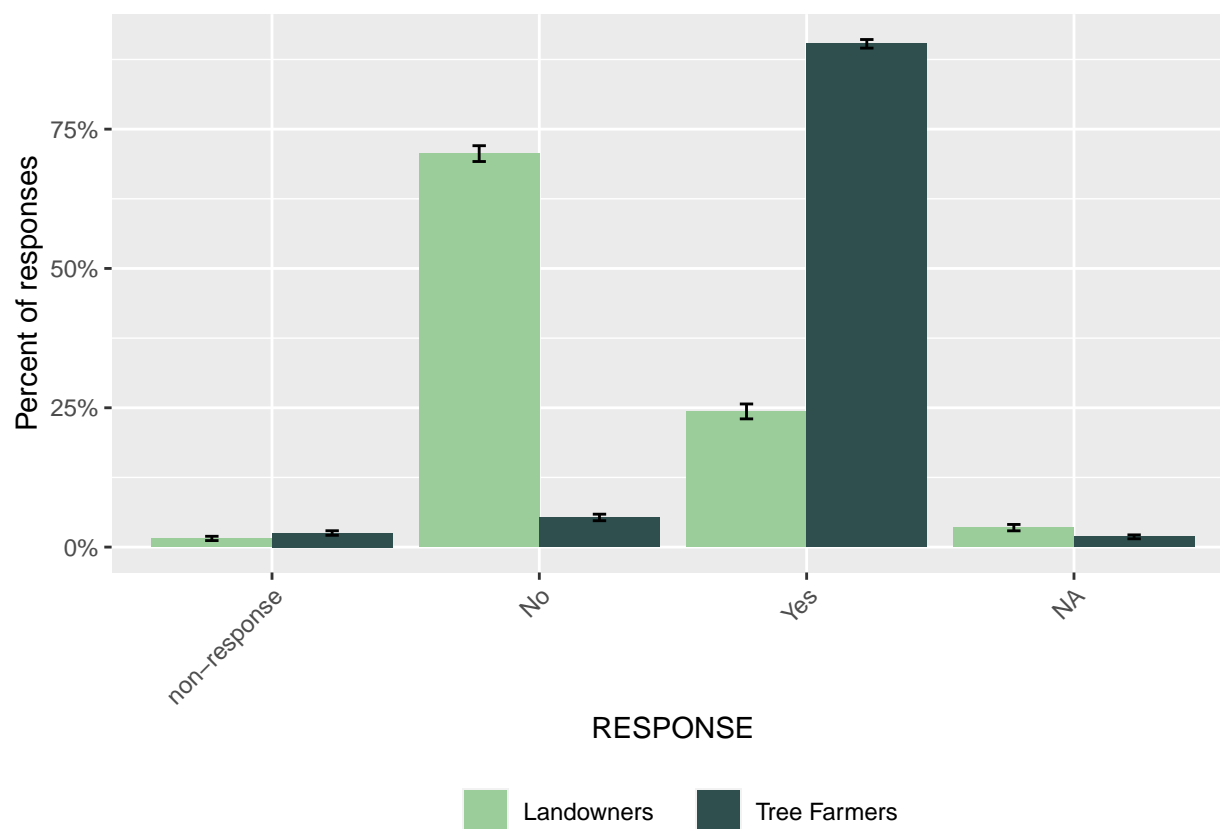
| | n |
|--------------|-----|
| non-response | 26 |
| No | 410 |
| Yes | 597 |

Tree Farmer totals

| | n |
|--------------|------|
| non-response | 51 |
| No | 235 |
| Yes | 1184 |

MGMT_PLAN

Do you have a written management plan for your wooded land?



Landowner totals

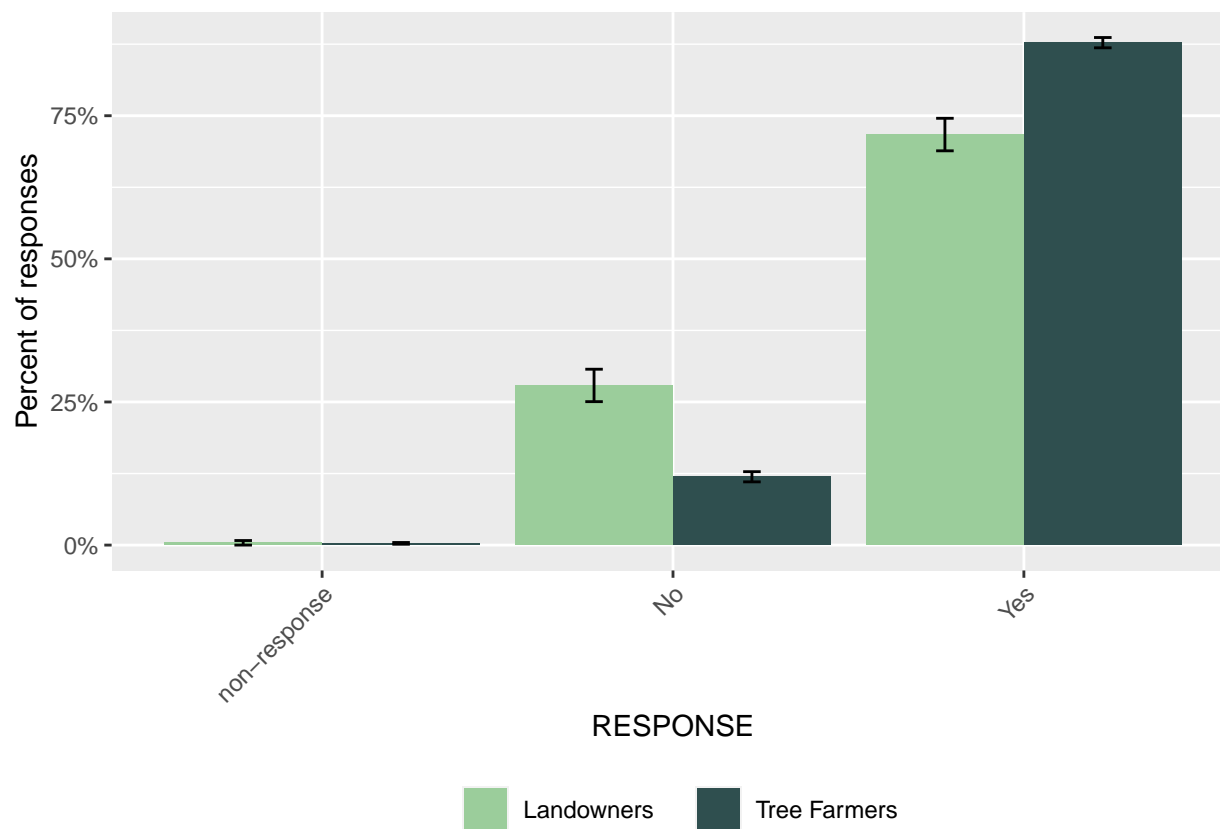
| | n |
|--------------|-----|
| non-response | 16 |
| No | 728 |
| Yes | 251 |
| NA's | 36 |

Tree Farmer totals

| | n |
|--------------|------|
| non-response | 37 |
| No | 78 |
| Yes | 1324 |
| NA's | 27 |

MGMT_PLAN_UPDATE

Do you plan to update your written management plan in the future?



Landowner totals

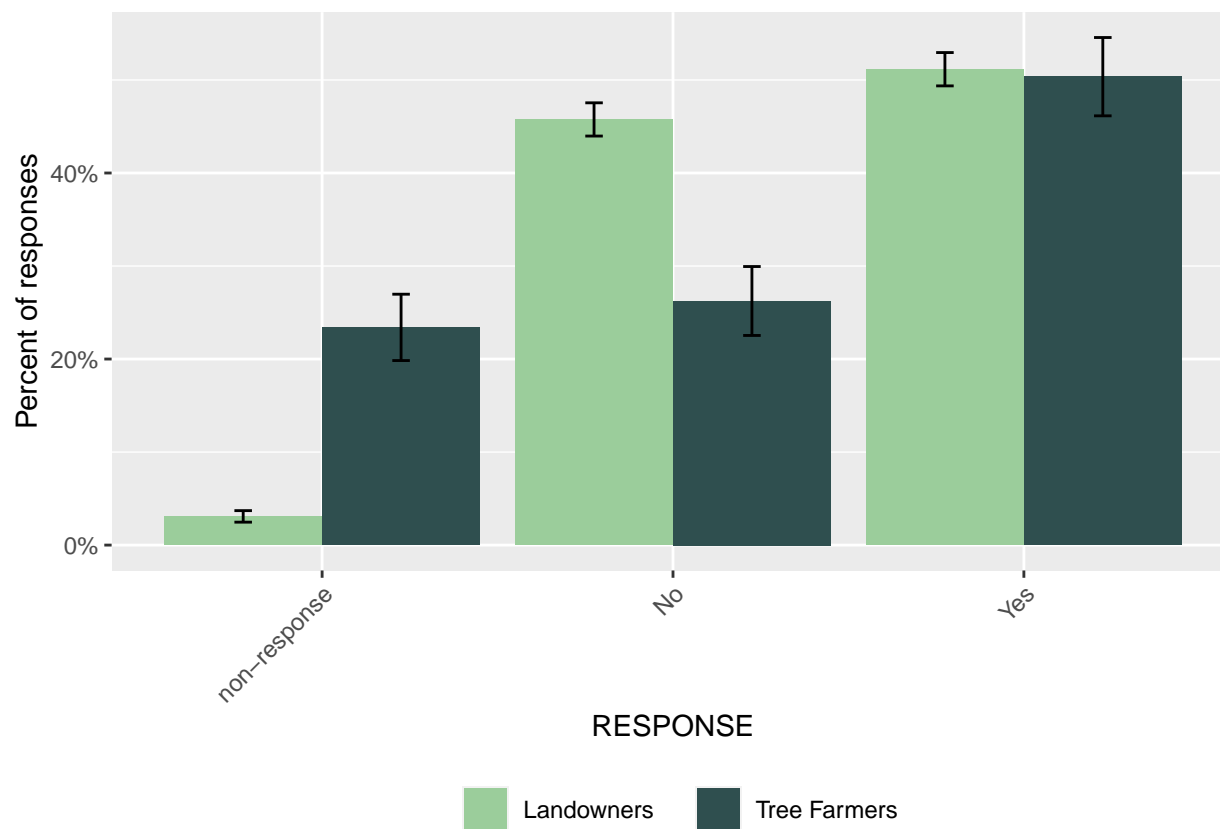
| | n |
|--------------|-----|
| non-response | 1 |
| No | 70 |
| Yes | 180 |

Tree Farmer totals

| | n |
|--------------|------|
| non-response | 4 |
| No | 158 |
| Yes | 1162 |

MGMT_PLAN_FUT

Would you consider having a written stewardship or management plan in the future?



Landowner totals

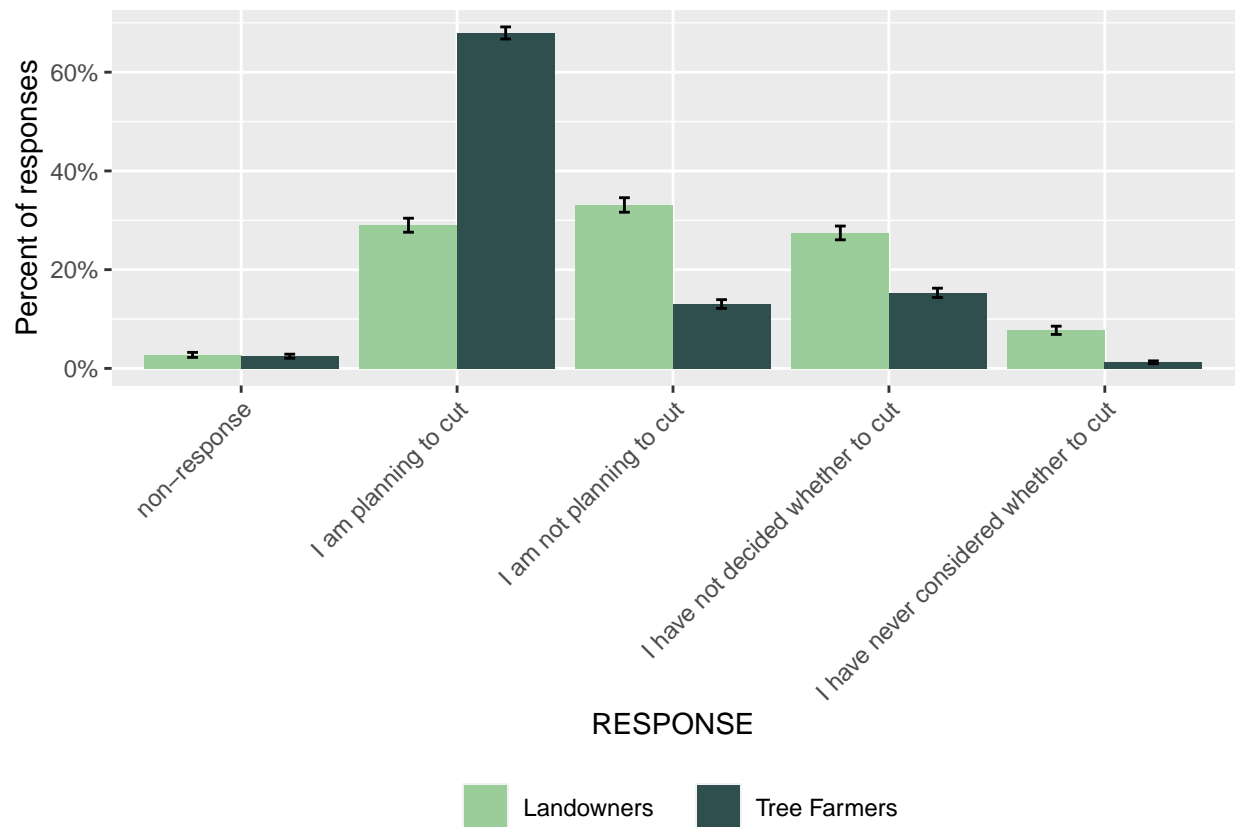
| | n |
|--------------|-----|
| non-response | 24 |
| No | 356 |
| Yes | 398 |

Tree Farmer totals

| | n |
|--------------|----|
| non-response | 33 |
| No | 37 |
| Yes | 71 |

CUT_TTM

Which of the following statements best describes your thoughts about cutting trees from your wooded land for sale in the future?



Landowner totals

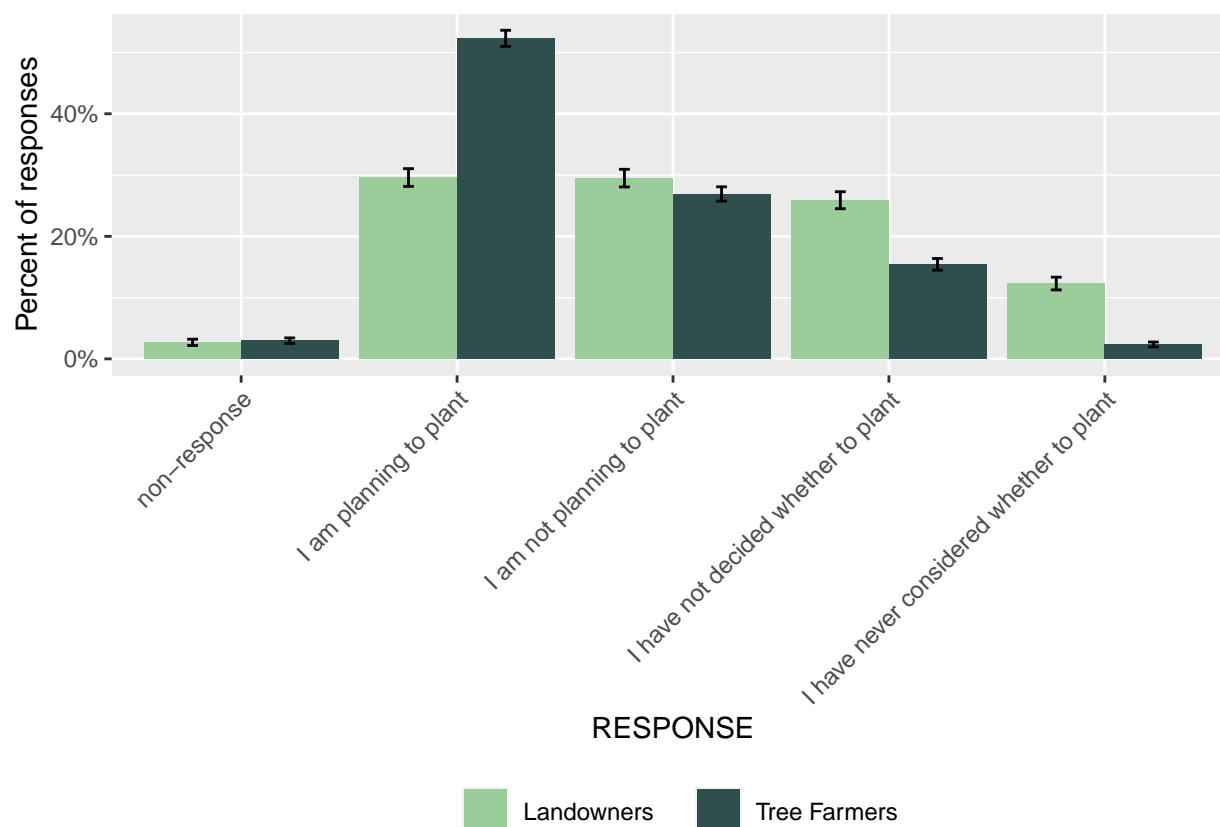
| | n |
|--|-----|
| non-response | 28 |
| I am planning to cut | 297 |
| I am not planning to cut | 339 |
| I have not decided whether to cut | 281 |
| I have never considered whether to cut | 79 |

Tree Farmer totals

| | n |
|--|-----|
| non-response | 36 |
| I am planning to cut | 990 |
| I am not planning to cut | 190 |
| I have not decided whether to cut | 223 |
| I have never considered whether to cut | 18 |

PLANT_TTM

Which of the following statements best describes your thoughts about planting trees on your wooded land in the future?



Landowner totals

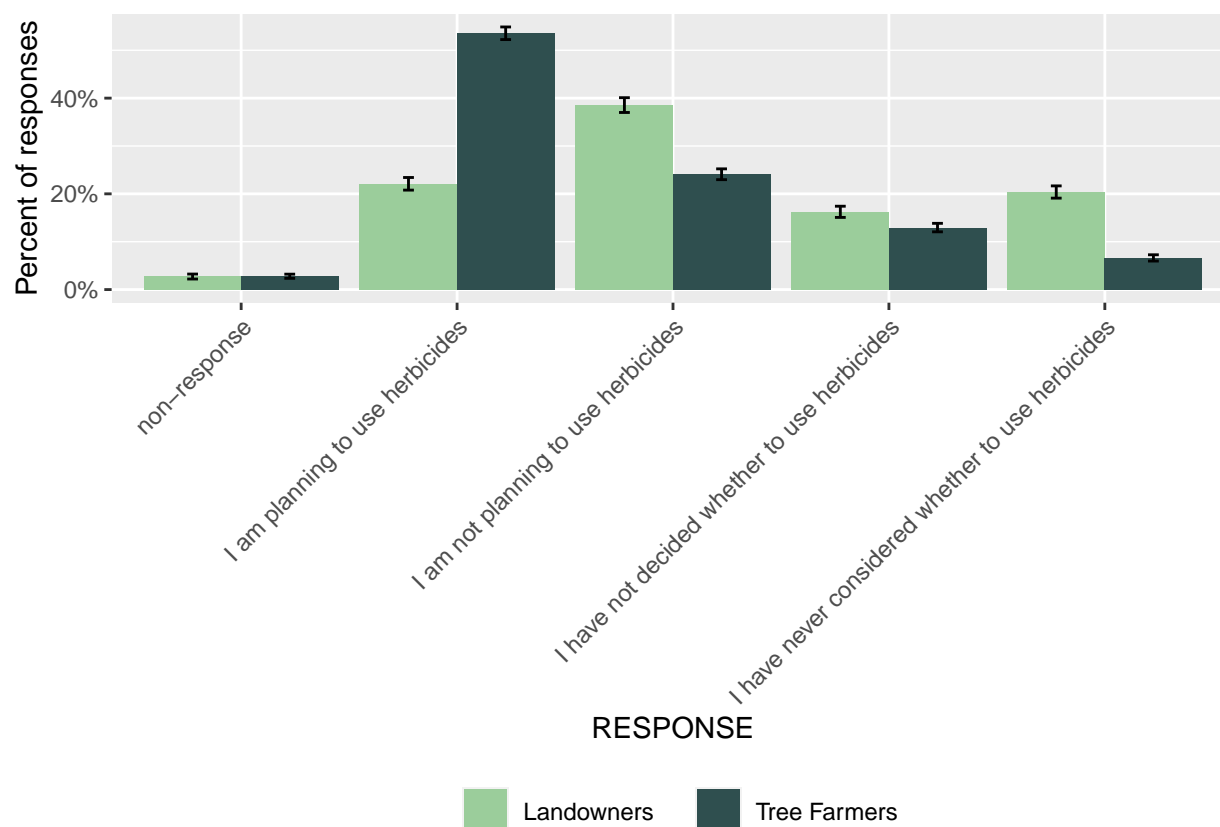
| | n |
|--|-----|
| non-response | 27 |
| I am planning to plant | 296 |
| I am not planning to plant | 295 |
| I have not decided whether to plant | 259 |
| I have never considered whether to plant | 123 |

Tree Farmer totals

| | n |
|--|-----|
| non-response | 43 |
| I am planning to plant | 756 |
| I am not planning to plant | 389 |
| I have not decided whether to plant | 223 |
| I have never considered whether to plant | 34 |

HERB_TTM

Which of the following statements best describes your thoughts about using herbicides on your wooded land in the future?



Landowner totals

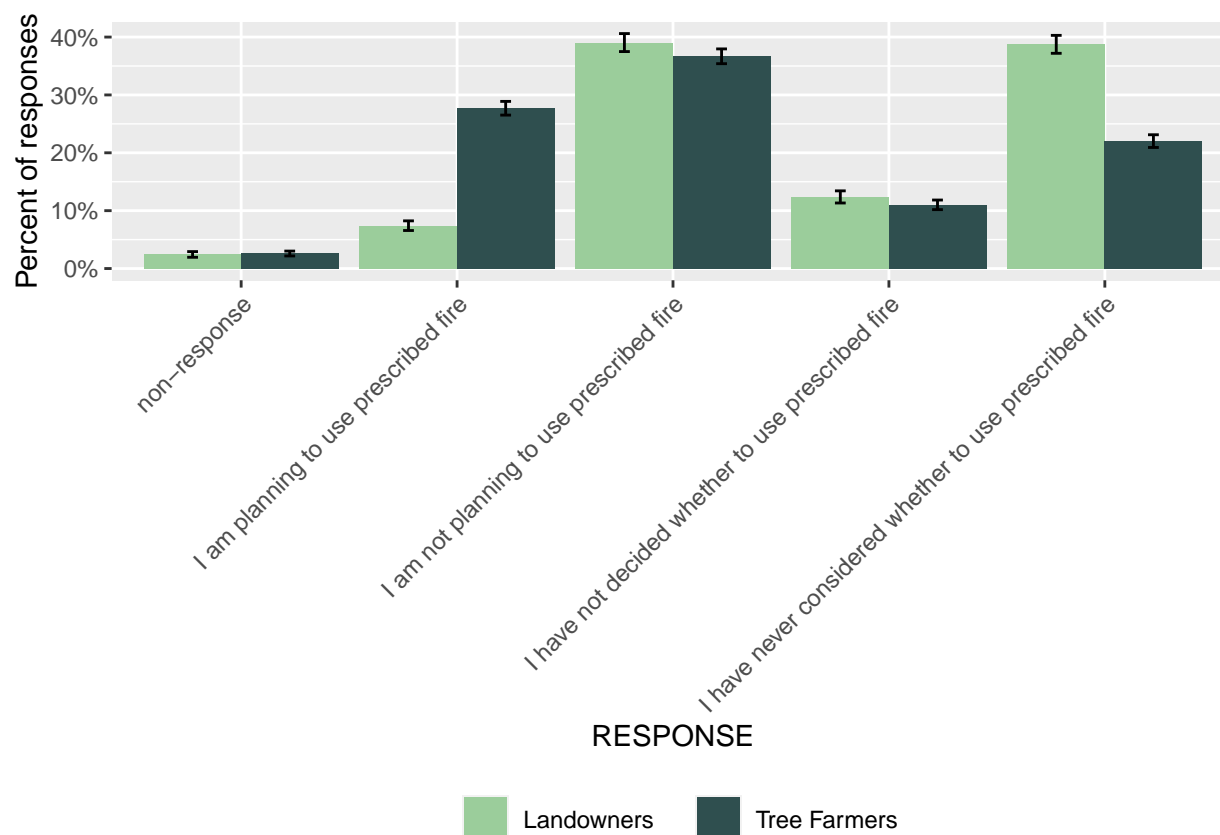
| | n |
|---|-----|
| non-response | 27 |
| I am planning to use herbicides | 219 |
| I am not planning to use herbicides | 382 |
| I have not decided whether to use herbicides | 161 |
| I have never considered whether to use herbicides | 202 |

Tree Farmer totals

| | n |
|---|-----|
| non-response | 40 |
| I am planning to use herbicides | 769 |
| I am not planning to use herbicides | 346 |
| I have not decided whether to use herbicides | 186 |
| I have never considered whether to use herbicides | 95 |

FIRE_TTM

Which of the following statements best describes your thoughts about using prescribed fire on your wooded land in the future?



Landowner totals

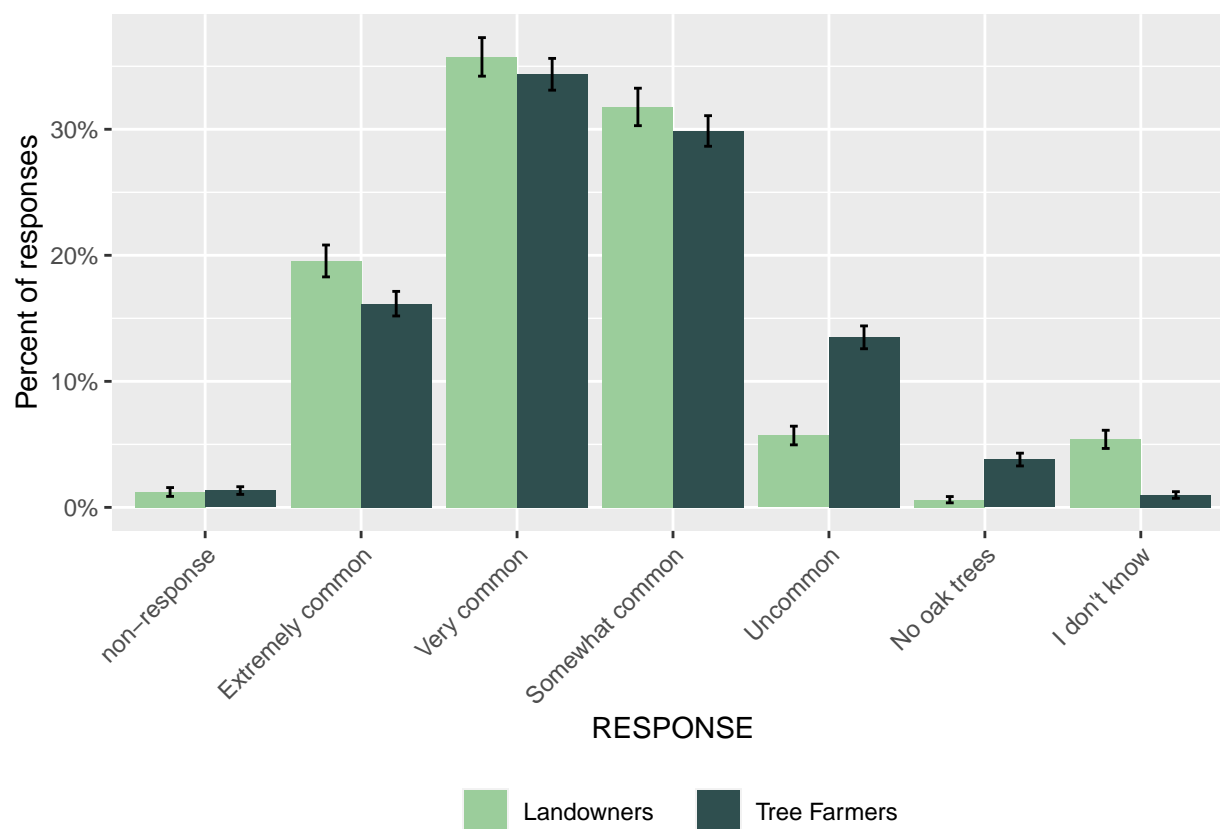
| | n |
|--|-----|
| non-response | 24 |
| I am planning to use prescribed fire | 73 |
| I am not planning to use prescribed fire | 385 |
| I have not decided whether to use prescribed fire | 122 |
| I have never considered whether to use prescribed fire | 382 |

Tree Farmer totals

| | n |
|--|-----|
| non-response | 37 |
| I am planning to use prescribed fire | 395 |
| I am not planning to use prescribed fire | 523 |
| I have not decided whether to use prescribed fire | 157 |
| I have never considered whether to use prescribed fire | 314 |

OAK_COMMON

How common are oak trees on your wooded land?



Landowner totals

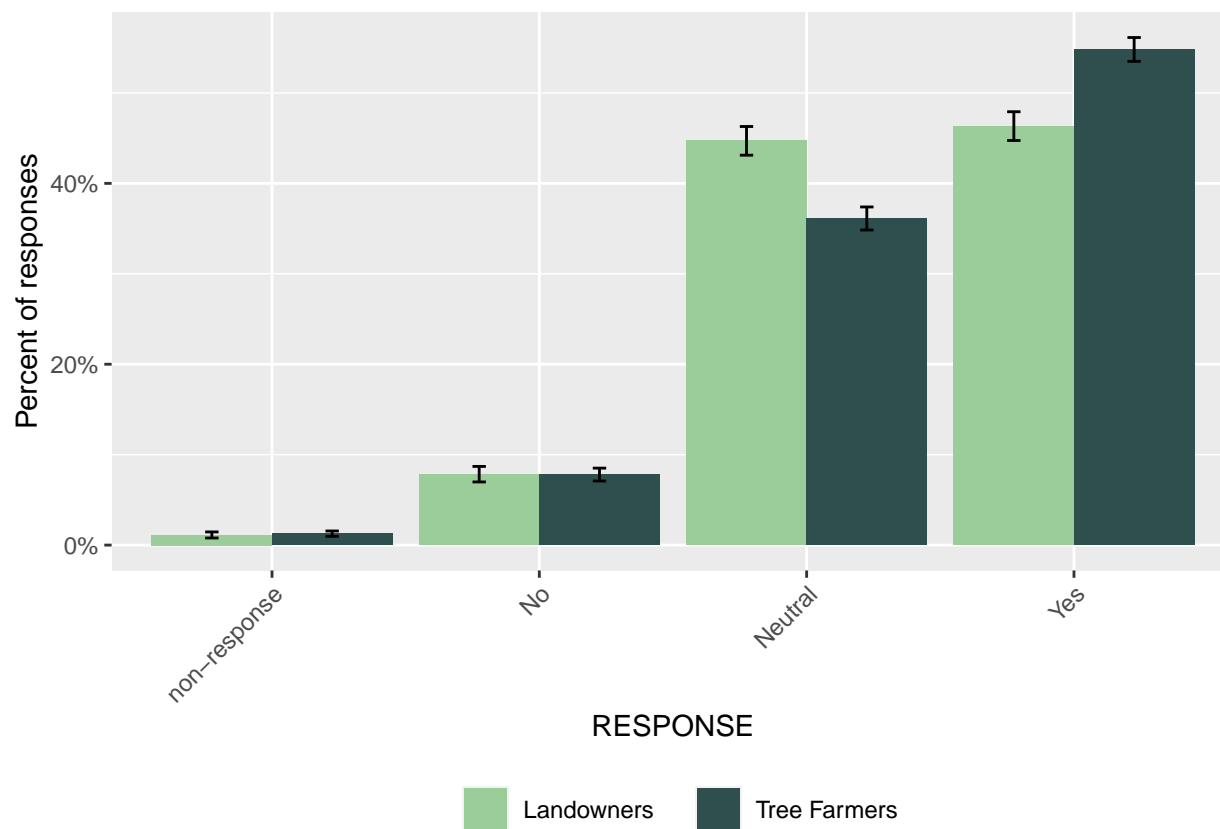
| | n |
|------------------|-----|
| non-response | 12 |
| Extremely common | 192 |
| Very common | 351 |
| Somewhat common | 312 |
| Uncommon | 56 |
| No oak trees | 6 |
| I don't know | 53 |

Tree Farmer totals

| | n |
|------------------|-----|
| non-response | 19 |
| Extremely common | 230 |
| Very common | 489 |
| Somewhat common | 425 |
| Uncommon | 192 |
| No oak trees | 54 |
| I don't know | 14 |

OAK_MORE

Would you like more oak trees on your land?



Landowner totals

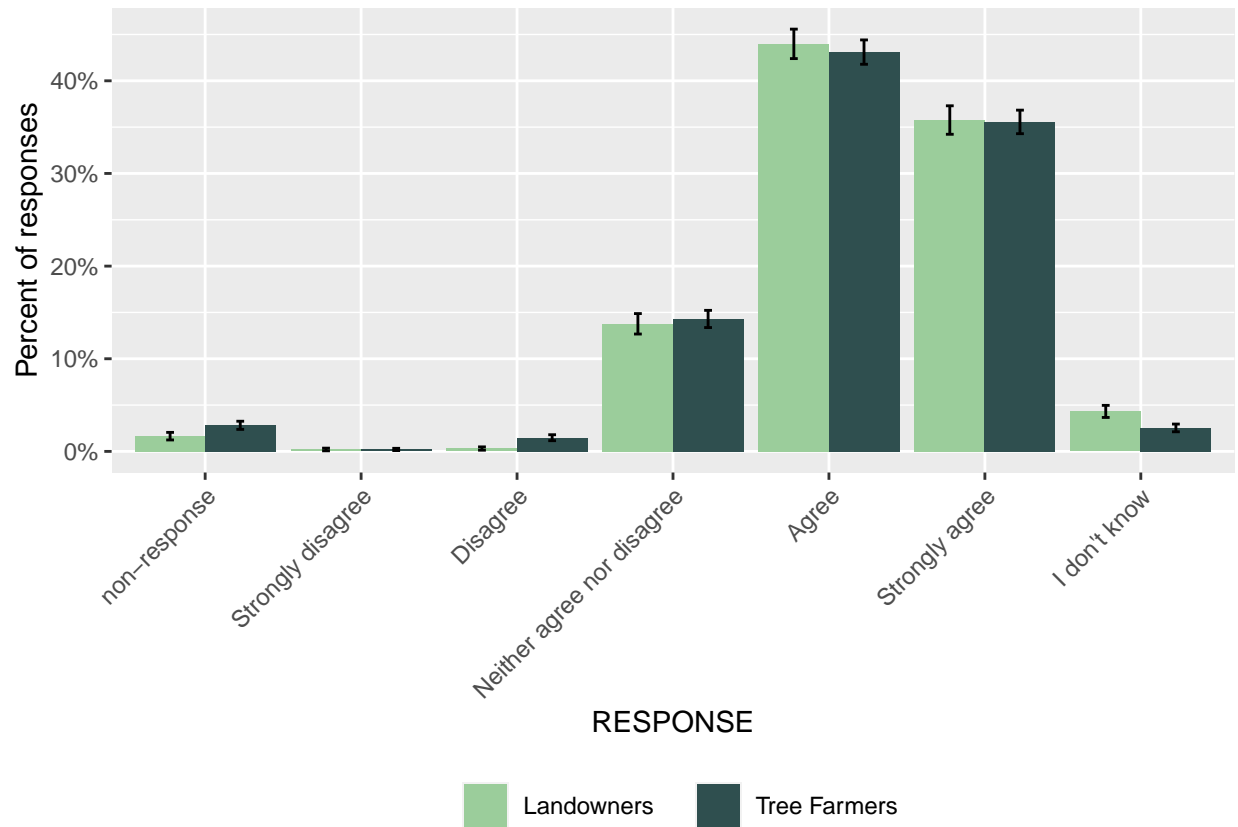
| | n |
|--------------|-----|
| non-response | 11 |
| No | 77 |
| Neutral | 439 |
| Yes | 455 |

Tree Farmer totals

| | n |
|--------------|-----|
| non-response | 18 |
| No | 111 |
| Neutral | 514 |
| Yes | 780 |

UPLAND_SCENE

What is your level of agreement or disagreement with the following statements? I think upland woods dominated by oak trees... Provide good scenery



Landowner totals

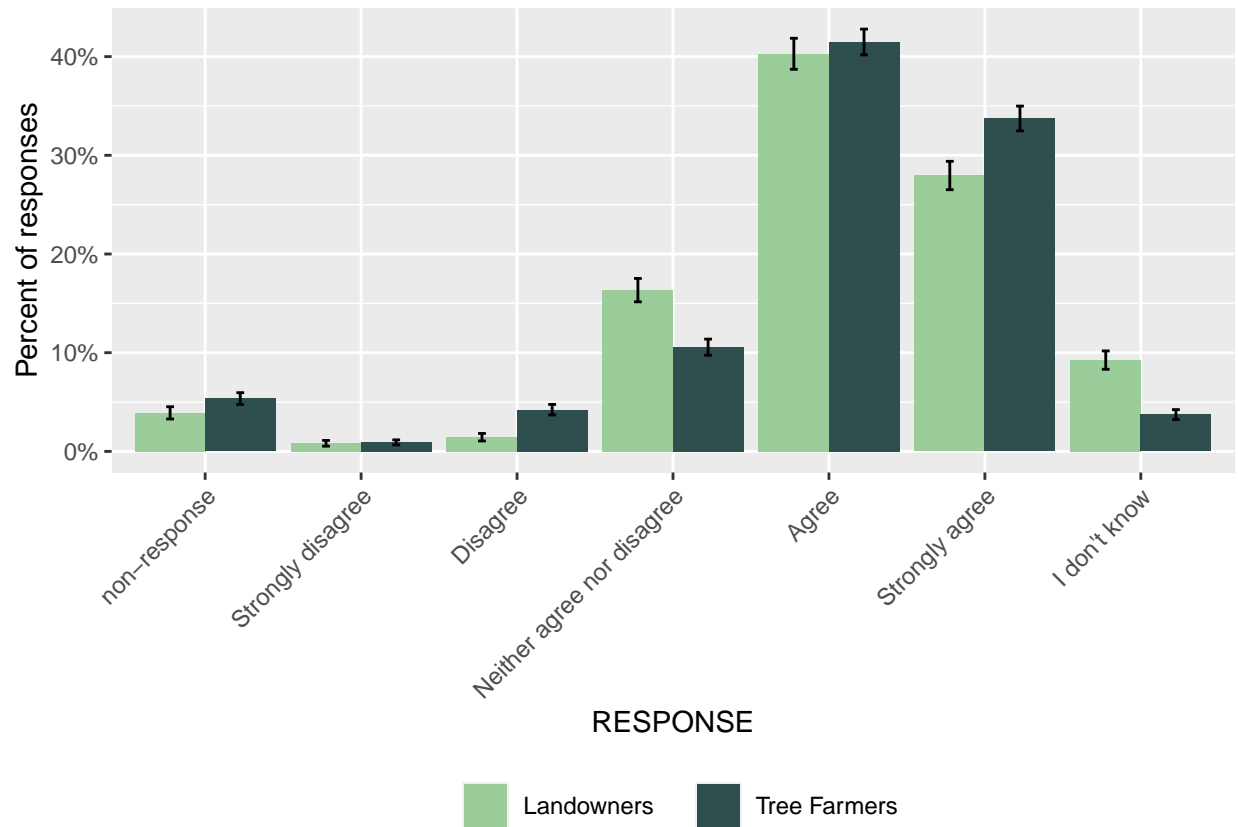
| | n |
|----------------------------|-----|
| non-response | 16 |
| Strongly disagree | 2 |
| Disagree | 3 |
| Neither agree nor disagree | 134 |
| Agree | 428 |
| Strongly agree | 348 |
| I don't know | 42 |

Tree Farmer totals

| | n |
|----------------------------|-----|
| non-response | 40 |
| Strongly disagree | 3 |
| Disagree | 21 |
| Neither agree nor disagree | 203 |
| Agree | 612 |
| Strongly agree | 505 |
| I don't know | 36 |

UPLAND_TIMBER

What is your level of agreement or disagreement with the following statements? I think upland woods dominated by oak trees... Produce profitable timber



Landowner totals

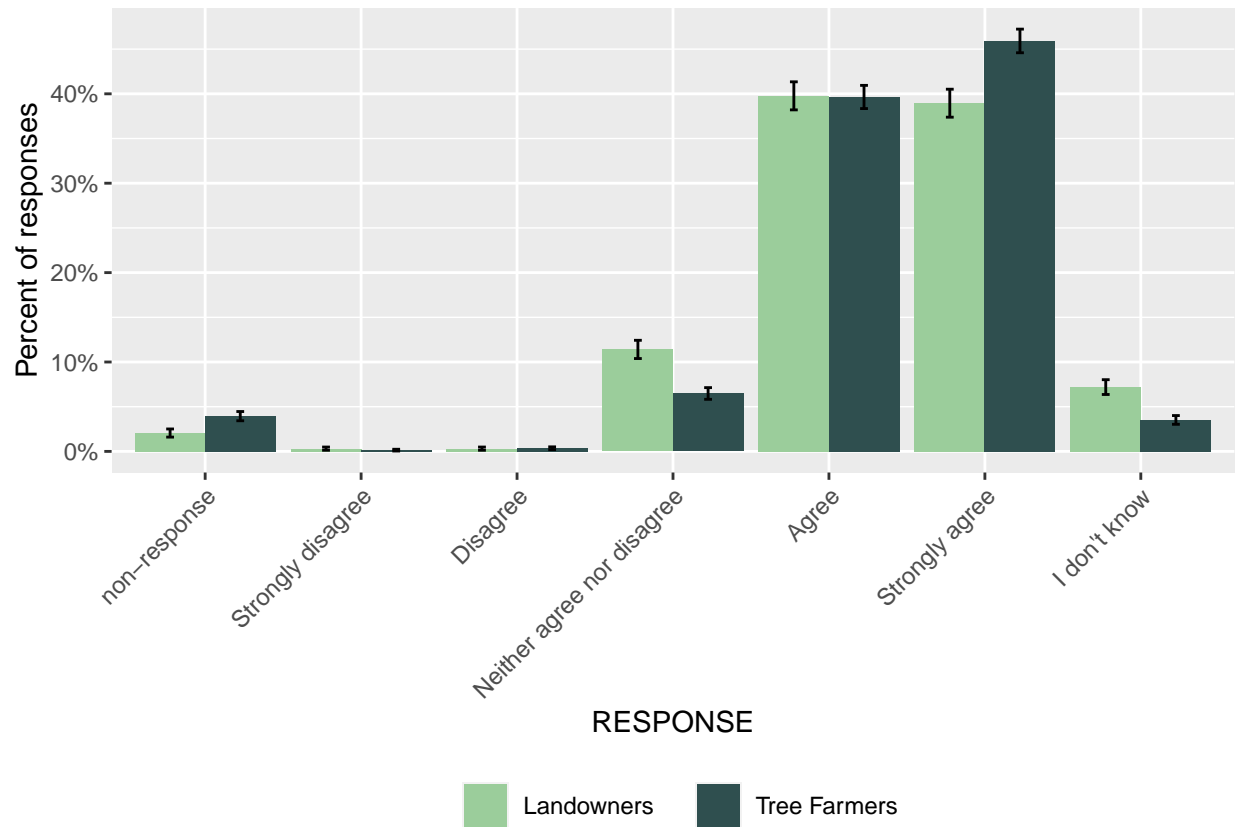
| | n |
|----------------------------|-----|
| non-response | 38 |
| Strongly disagree | 8 |
| Disagree | 14 |
| Neither agree nor disagree | 159 |
| Agree | 392 |
| Strongly agree | 272 |
| I don't know | 90 |

Tree Farmer totals

| | n |
|----------------------------|-----|
| non-response | 76 |
| Strongly disagree | 13 |
| Disagree | 60 |
| Neither agree nor disagree | 150 |
| Agree | 589 |
| Strongly agree | 479 |
| I don't know | 53 |

UPLAND_GAME

What is your level of agreement or disagreement with the following statements? I think upland woods dominated by oak trees... Provide good turkey, deer, and other game habitat



Landowner totals

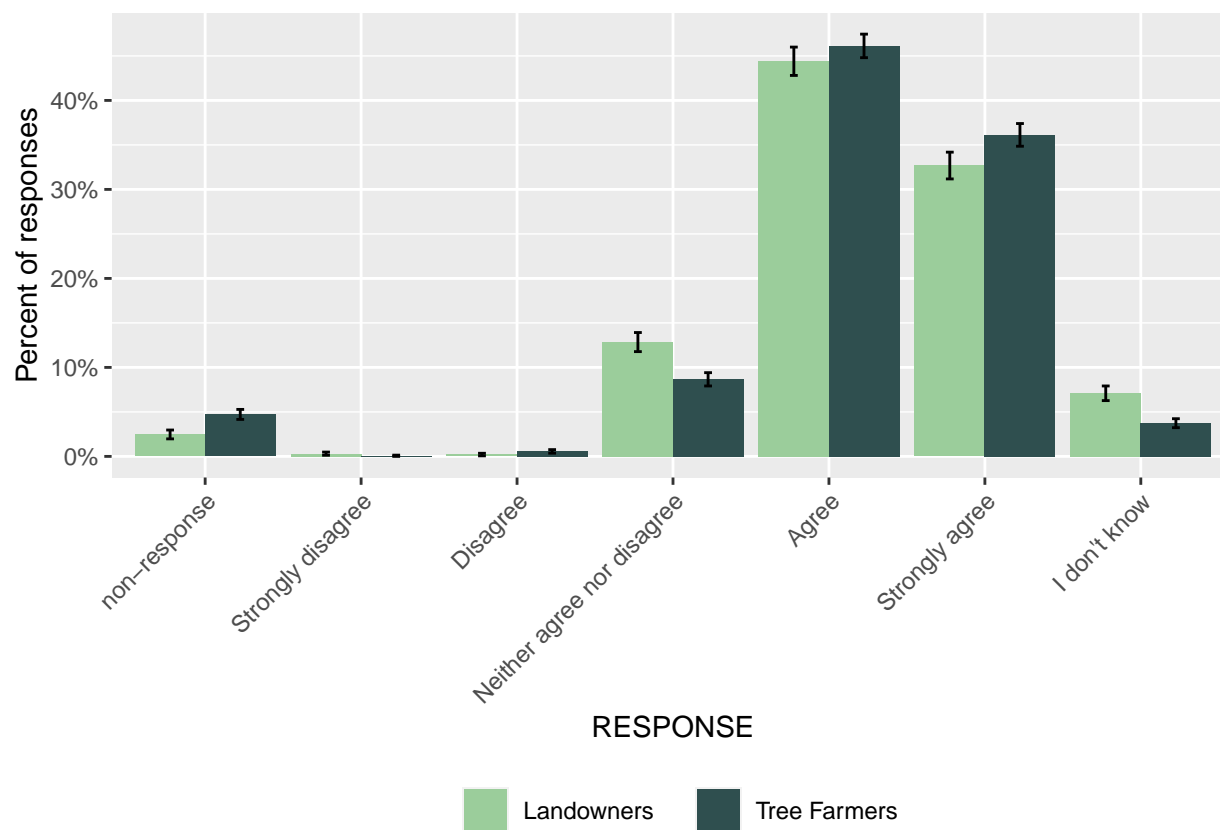
| | n |
|----------------------------|-----|
| non-response | 20 |
| Strongly disagree | 3 |
| Disagree | 3 |
| Neither agree nor disagree | 111 |
| Agree | 387 |
| Strongly agree | 379 |
| I don't know | 70 |

Tree Farmer totals

| | n |
|----------------------------|-----|
| non-response | 56 |
| Strongly disagree | 2 |
| Disagree | 5 |
| Neither agree nor disagree | 92 |
| Agree | 563 |
| Strongly agree | 652 |
| I don't know | 50 |

UPLAND_NONGAME

What is your level of agreement or disagreement with the following statements? I think upland woods dominated by oak trees... Provide good habitat for non-game wildlife



Landowner totals

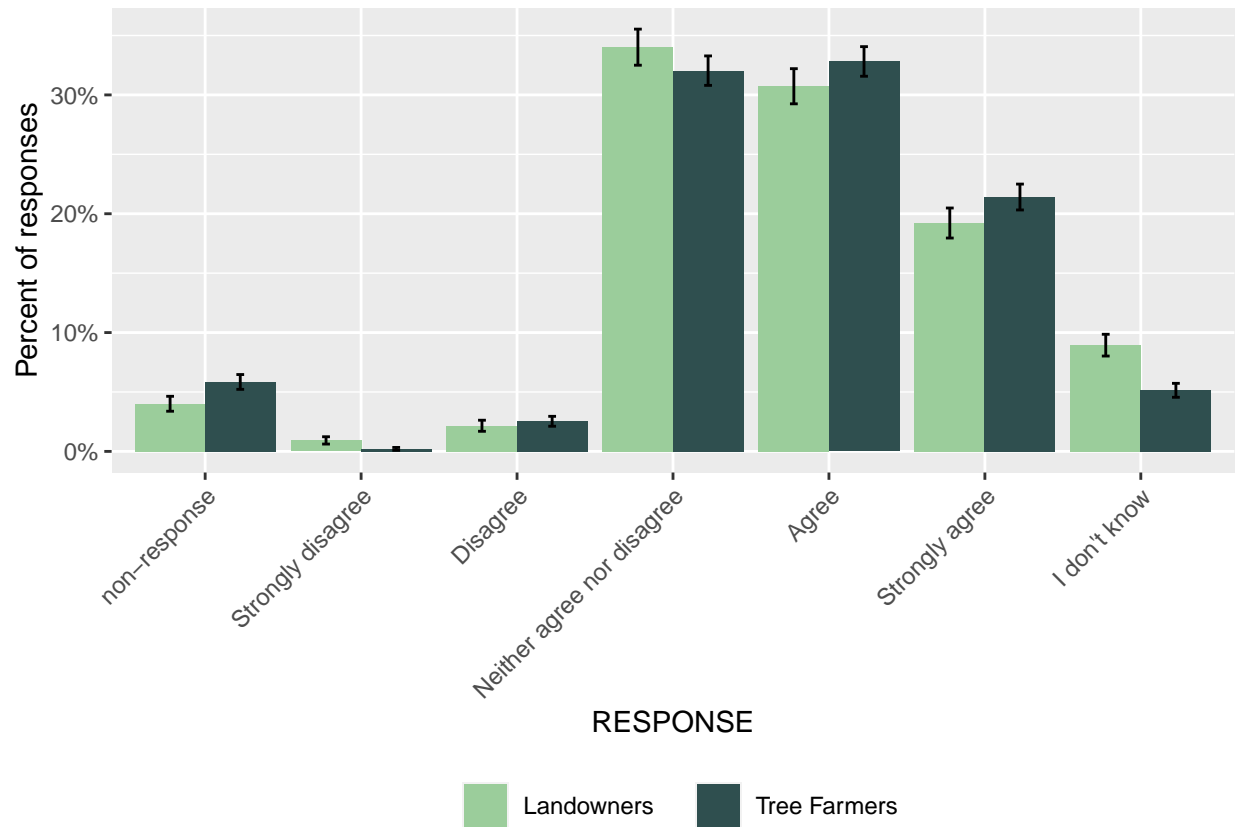
| | n |
|----------------------------|-----|
| non-response | 24 |
| Strongly disagree | 3 |
| Disagree | 2 |
| Neither agree nor disagree | 125 |
| Agree | 432 |
| Strongly agree | 318 |
| I don't know | 69 |

Tree Farmer totals

| | n |
|----------------------------|-----|
| non-response | 67 |
| Strongly disagree | 1 |
| Disagree | 8 |
| Neither agree nor disagree | 123 |
| Agree | 655 |
| Strongly agree | 513 |
| I don't know | 53 |

UPLAND_REC

What is your level of agreement or disagreement with the following statements? I think upland woods dominated by oak trees... Provide good recreational opportunities



Landowner totals

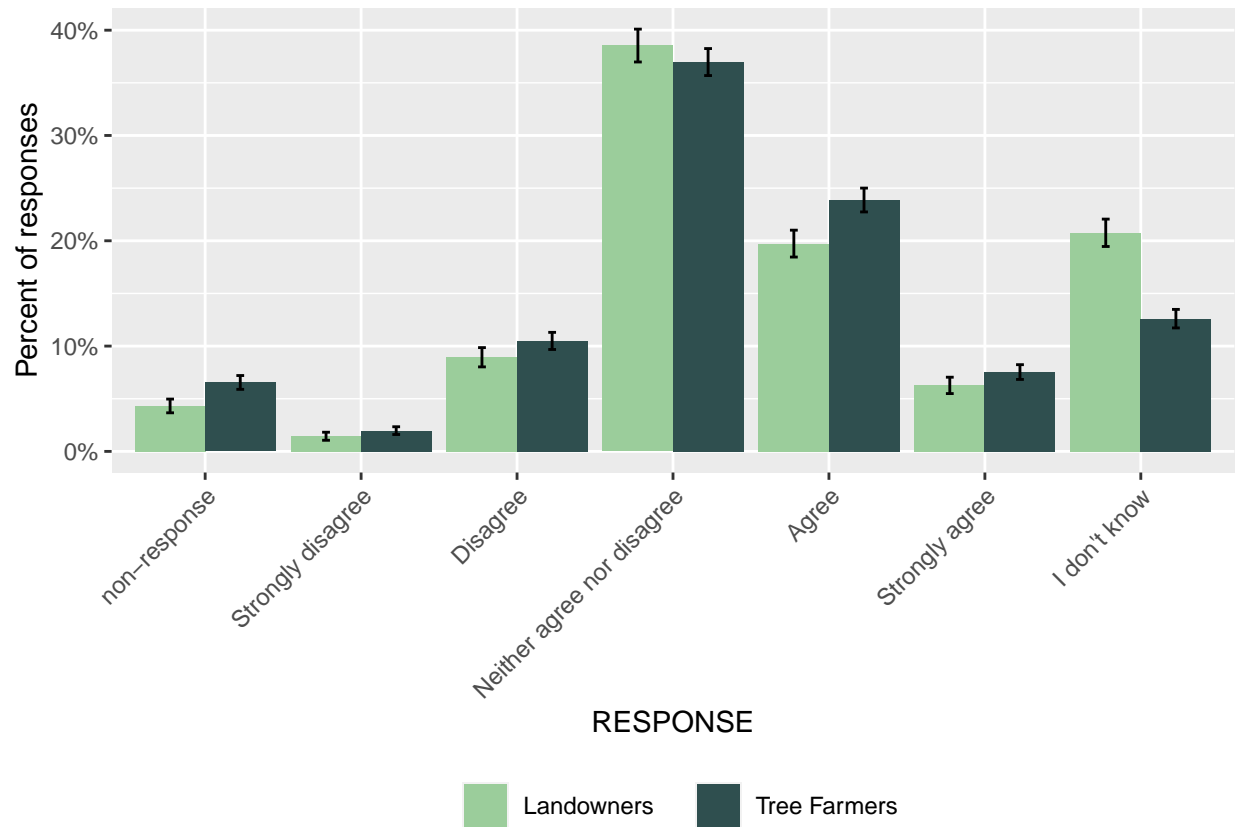
| | n |
|----------------------------|-----|
| non-response | 39 |
| Strongly disagree | 9 |
| Disagree | 21 |
| Neither agree nor disagree | 331 |
| Agree | 299 |
| Strongly agree | 187 |
| I don't know | 87 |

Tree Farmer totals

| | n |
|----------------------------|-----|
| non-response | 83 |
| Strongly disagree | 3 |
| Disagree | 36 |
| Neither agree nor disagree | 455 |
| Agree | 466 |
| Strongly agree | 304 |
| I don't know | 73 |

UPLAND_DISEASE

What is your level of agreement or disagreement with the following statements? I think upland woods dominated by oak trees... Are vulnerable to insects and disease



Landowner totals

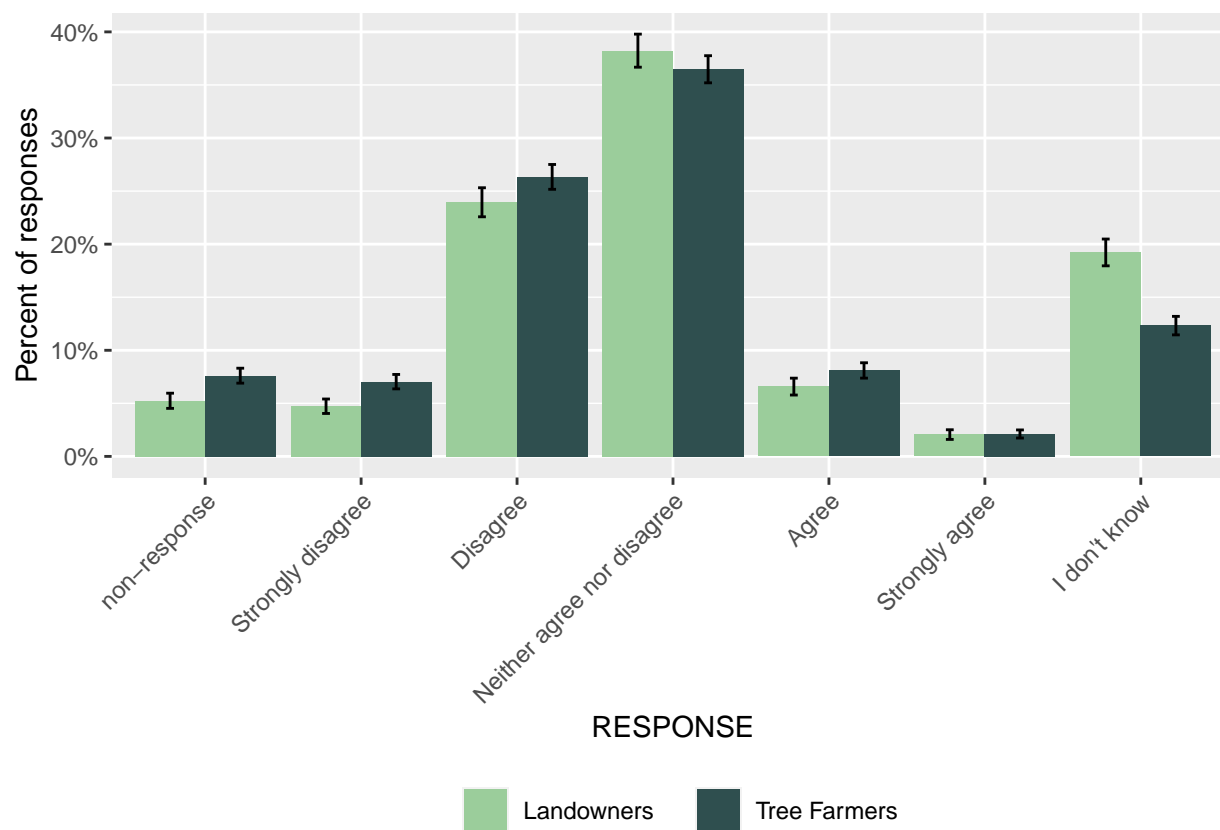
| | n |
|----------------------------|-----|
| non-response | 42 |
| Strongly disagree | 14 |
| Disagree | 87 |
| Neither agree nor disagree | 375 |
| Agree | 192 |
| Strongly agree | 61 |
| I don't know | 202 |

Tree Farmer totals

| | n |
|----------------------------|-----|
| non-response | 93 |
| Strongly disagree | 28 |
| Disagree | 149 |
| Neither agree nor disagree | 525 |
| Agree | 339 |
| Strongly agree | 107 |
| I don't know | 179 |

UPLAND_FIRE

What is your level of agreement or disagreement with the following statements? I think upland woods dominated by oak trees... Are prone to wildfire



Landowner totals

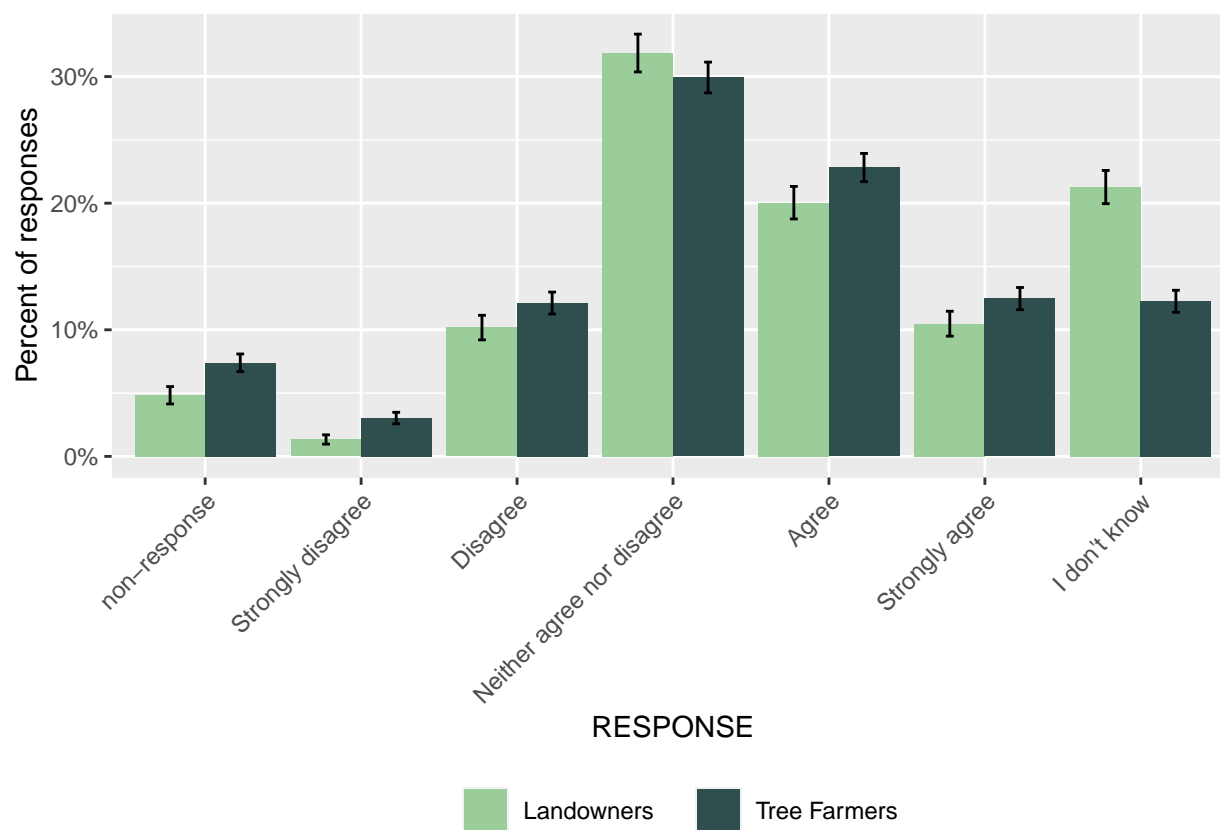
| | n |
|----------------------------|-----|
| non-response | 51 |
| Strongly disagree | 46 |
| Disagree | 233 |
| Neither agree nor disagree | 372 |
| Agree | 64 |
| Strongly agree | 20 |
| I don't know | 187 |

Tree Farmer totals

| | n |
|----------------------------|-----|
| non-response | 108 |
| Strongly disagree | 100 |
| Disagree | 374 |
| Neither agree nor disagree | 518 |
| Agree | 115 |
| Strongly agree | 30 |
| I don't know | 175 |

UPLAND_DECLINE

What is your level of agreement or disagreement with the following statements? I think upland woods dominated by oak trees... Are at risk of declining



Landowner totals

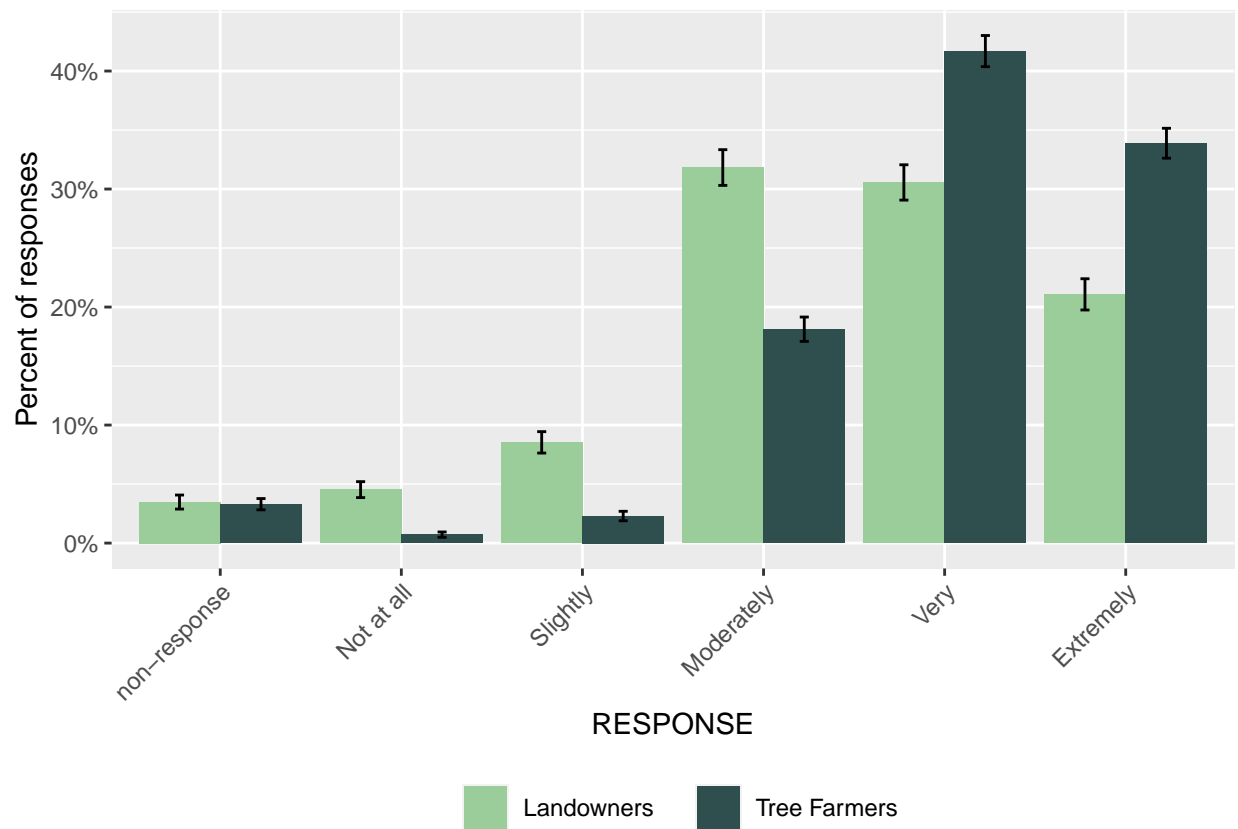
| | n |
|----------------------------|-----|
| non-response | 47 |
| Strongly disagree | 13 |
| Disagree | 99 |
| Neither agree nor disagree | 310 |
| Agree | 195 |
| Strongly agree | 102 |
| I don't know | 207 |

Tree Farmer totals

| | n |
|----------------------------|-----|
| non-response | 105 |
| Strongly disagree | 43 |
| Disagree | 172 |
| Neither agree nor disagree | 425 |
| Agree | 324 |
| Strongly agree | 177 |
| I don't know | 174 |

IDENTIFY_CONS

How much, if at all, would you describe yourself in the following ways? Conservationist



Landowner totals

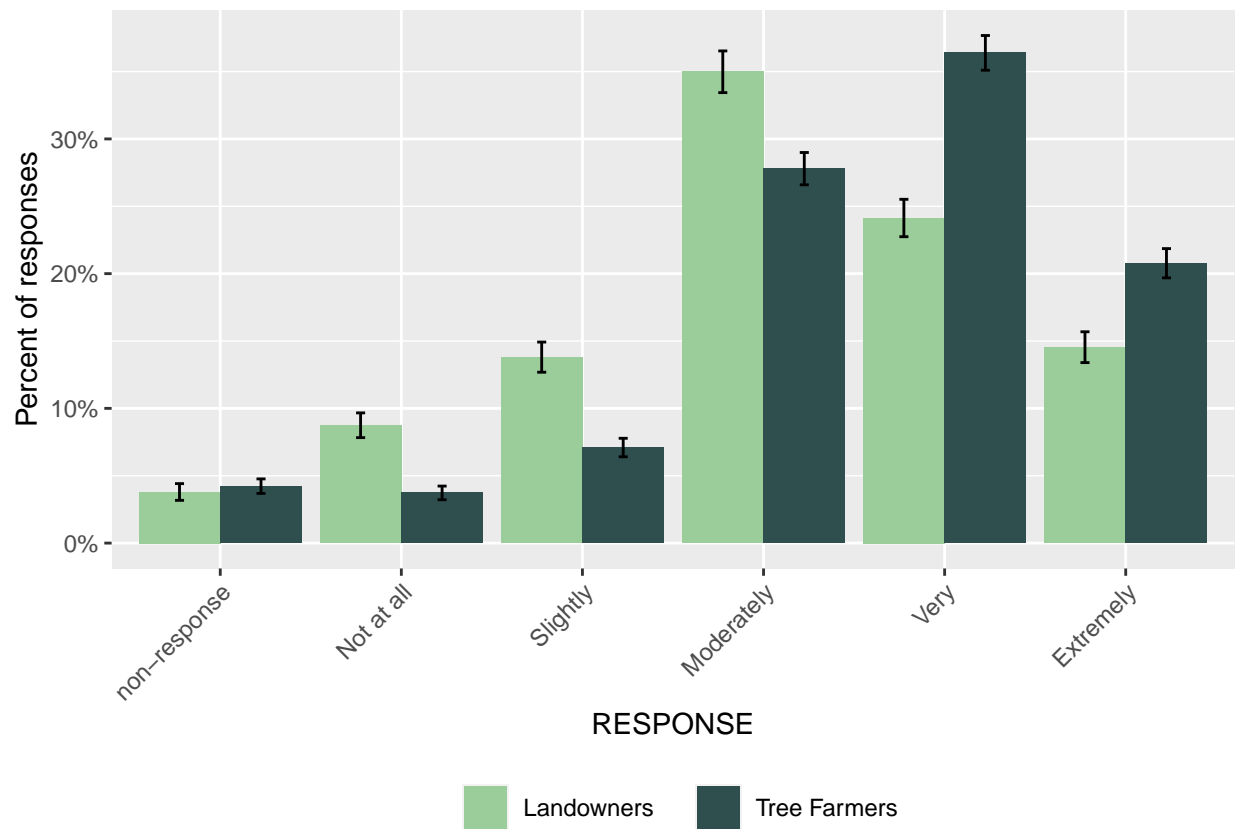
| | n |
|--------------|-----|
| non-response | 33 |
| Not at all | 43 |
| Slightly | 81 |
| Moderately | 302 |
| Very | 290 |
| Extremely | 200 |

Tree Farmer totals

| | n |
|--------------|-----|
| non-response | 46 |
| Not at all | 10 |
| Slightly | 32 |
| Moderately | 253 |
| Very | 582 |
| Extremely | 473 |

IDENTIFY_ENV

How much, if at all, would you describe yourself in the following ways? Environmentalist



Landowner totals

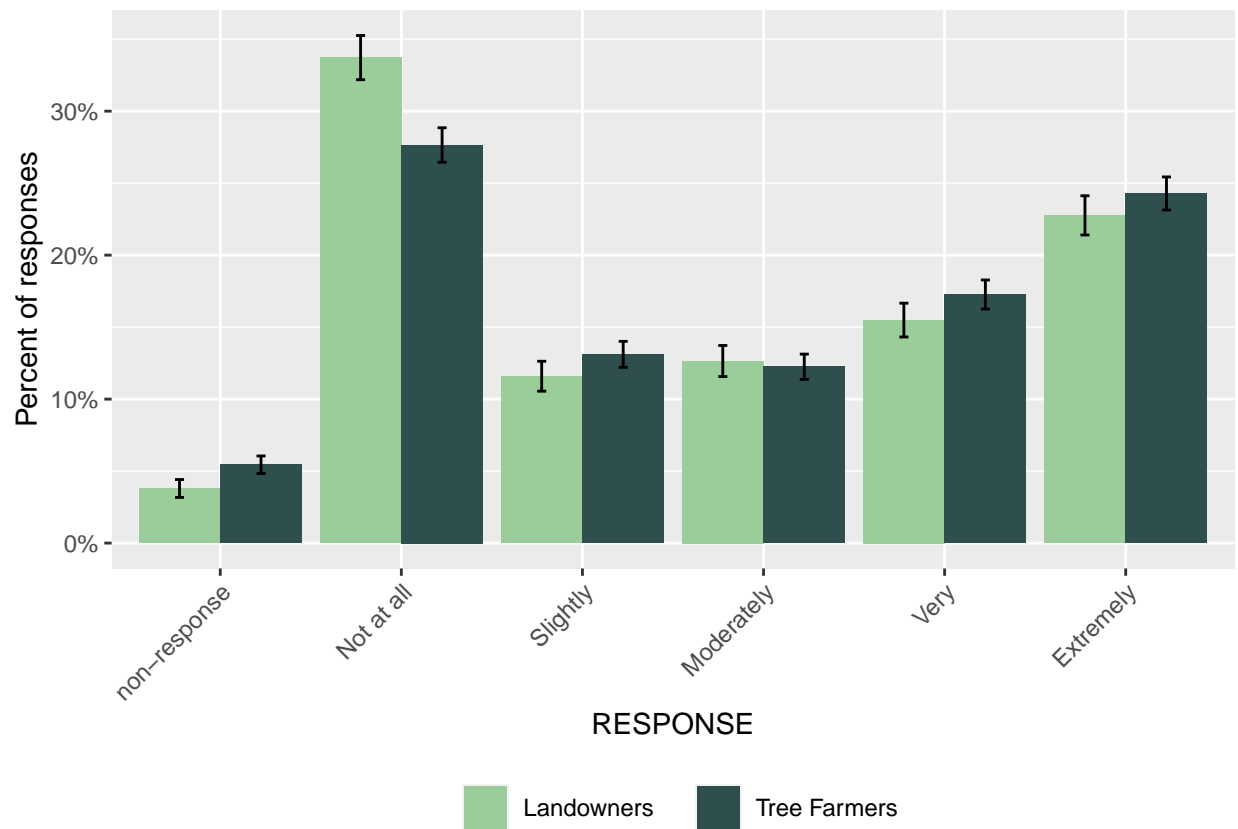
| | n |
|--------------|-----|
| non-response | 36 |
| Not at all | 83 |
| Slightly | 131 |
| Moderately | 332 |
| Very | 229 |
| Extremely | 138 |

Tree Farmer totals

| | n |
|--------------|-----|
| non-response | 59 |
| Not at all | 52 |
| Slightly | 99 |
| Moderately | 388 |
| Very | 508 |
| Extremely | 290 |

IDENTIFY_HUNTER

How much, if at all, would you describe yourself in the following ways? Hunter



Landowner totals

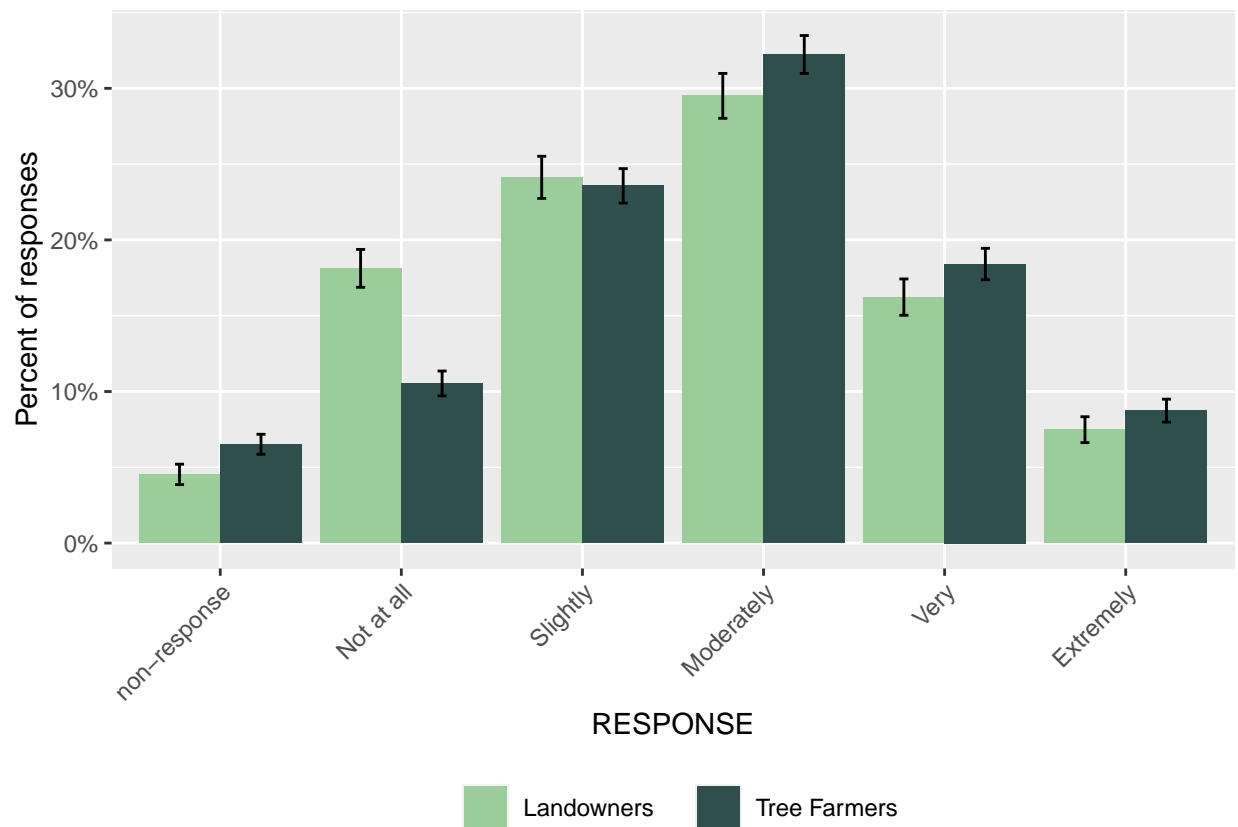
| | n |
|--------------|-----|
| non-response | 36 |
| Not at all | 320 |
| Slightly | 110 |
| Moderately | 120 |
| Very | 147 |
| Extremely | 216 |

Tree Farmer totals

| | n |
|--------------|-----|
| non-response | 76 |
| Not at all | 386 |
| Slightly | 183 |
| Moderately | 171 |
| Very | 241 |
| Extremely | 339 |

IDENTIFY_BIRDER

How much, if at all, would you describe yourself in the following ways? Birder



Landowner totals

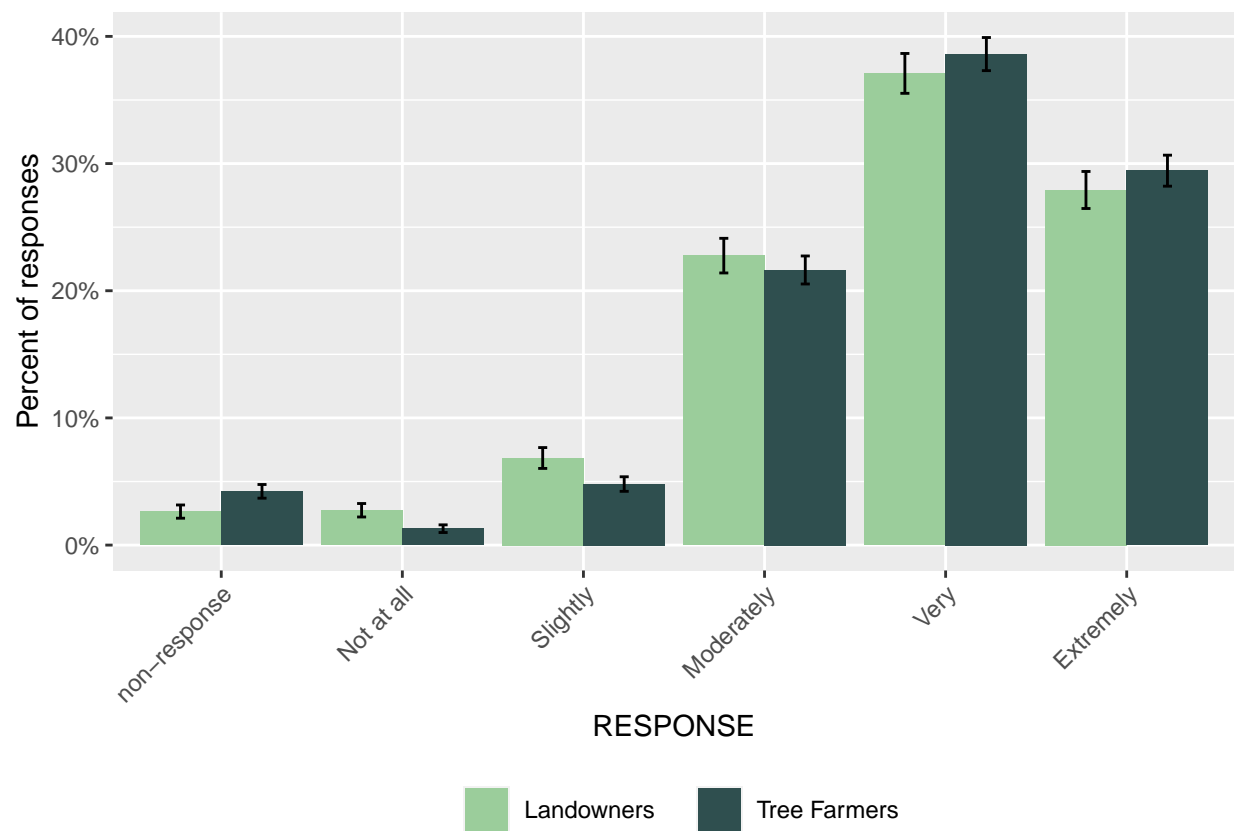
| | n |
|--------------|-----|
| non-response | 43 |
| Not at all | 172 |
| Slightly | 229 |
| Moderately | 280 |
| Very | 154 |
| Extremely | 71 |

Tree Farmer totals

| | n |
|--------------|-----|
| non-response | 91 |
| Not at all | 147 |
| Slightly | 329 |
| Moderately | 450 |
| Very | 257 |
| Extremely | 122 |

IDENTIFY_WILD

How much, if at all, would you describe yourself in the following ways? Wildlife viewer



Landowner totals

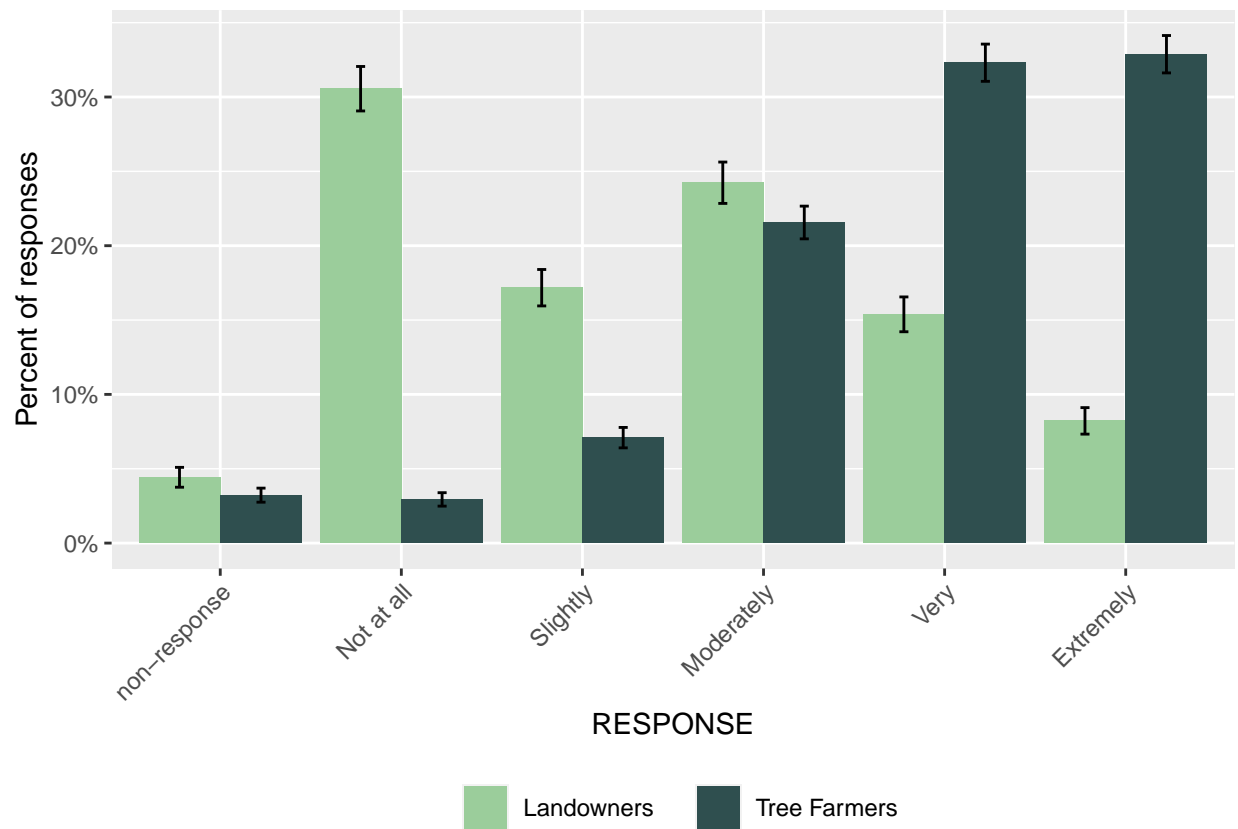
| | n |
|--------------|-----|
| non-response | 25 |
| Not at all | 26 |
| Slightly | 65 |
| Moderately | 216 |
| Very | 352 |
| Extremely | 265 |

Tree Farmer totals

| | n |
|--------------|-----|
| non-response | 59 |
| Not at all | 18 |
| Slightly | 67 |
| Moderately | 302 |
| Very | 539 |
| Extremely | 411 |

IDENTIFY_TIMBER

How much, if at all, would you describe yourself in the following ways? Timber grower



Landowner totals

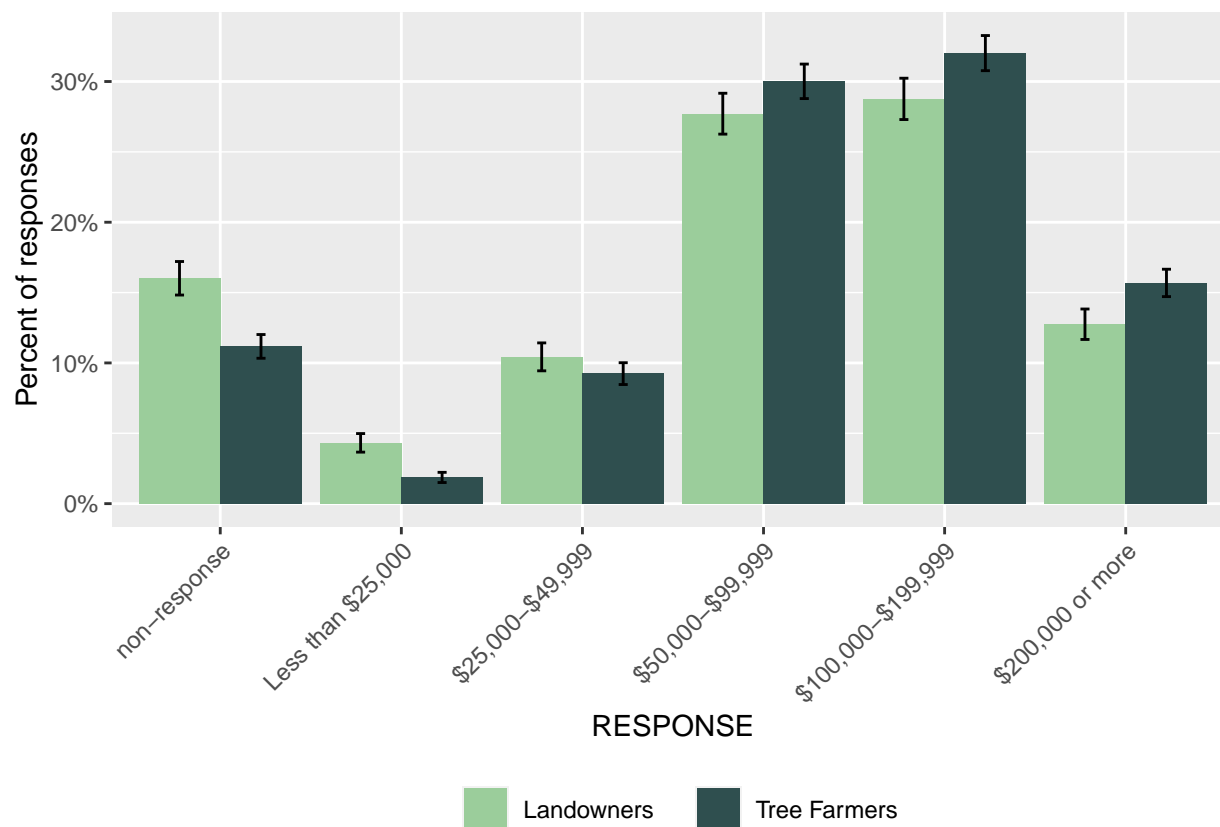
| | n |
|--------------|-----|
| non-response | 42 |
| Not at all | 290 |
| Slightly | 163 |
| Moderately | 230 |
| Very | 146 |
| Extremely | 78 |

Tree Farmer totals

| | n |
|--------------|-----|
| non-response | 45 |
| Not at all | 41 |
| Slightly | 99 |
| Moderately | 301 |
| Very | 451 |
| Extremely | 459 |

INCOME

What is your household's annual income?



Landowner totals

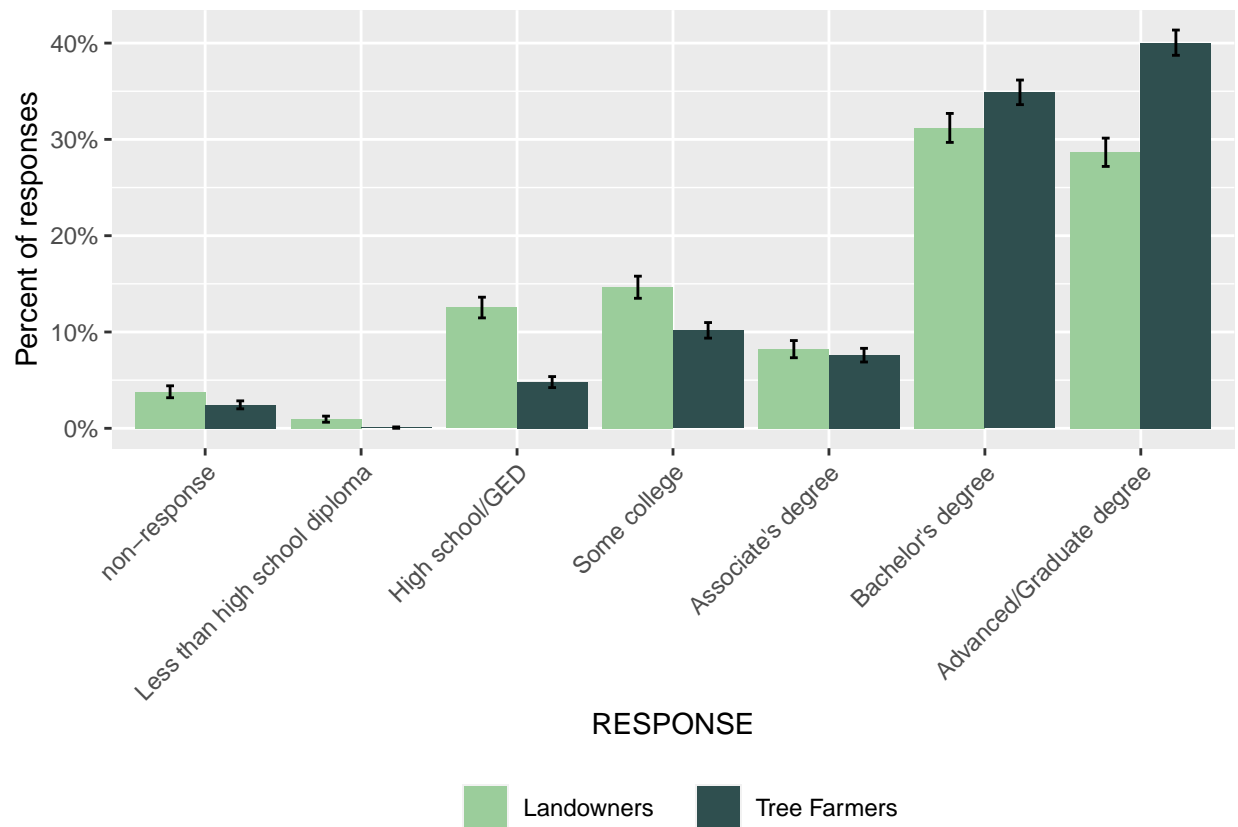
| | n |
|---------------------|-----|
| non-response | 152 |
| Less than \$25,000 | 41 |
| \$25,000-\$49,999 | 99 |
| \$50,000-\$99,999 | 263 |
| \$100,000-\$199,999 | 273 |
| \$200,000 or more | 121 |

Tree Farmer totals

| | n |
|---------------------|-----|
| non-response | 156 |
| Less than \$25,000 | 26 |
| \$25,000-\$49,999 | 129 |
| \$50,000-\$99,999 | 419 |
| \$100,000-\$199,999 | 447 |
| \$200,000 or more | 219 |

EDU

What is the highest level of school you have completed?



Landowner totals

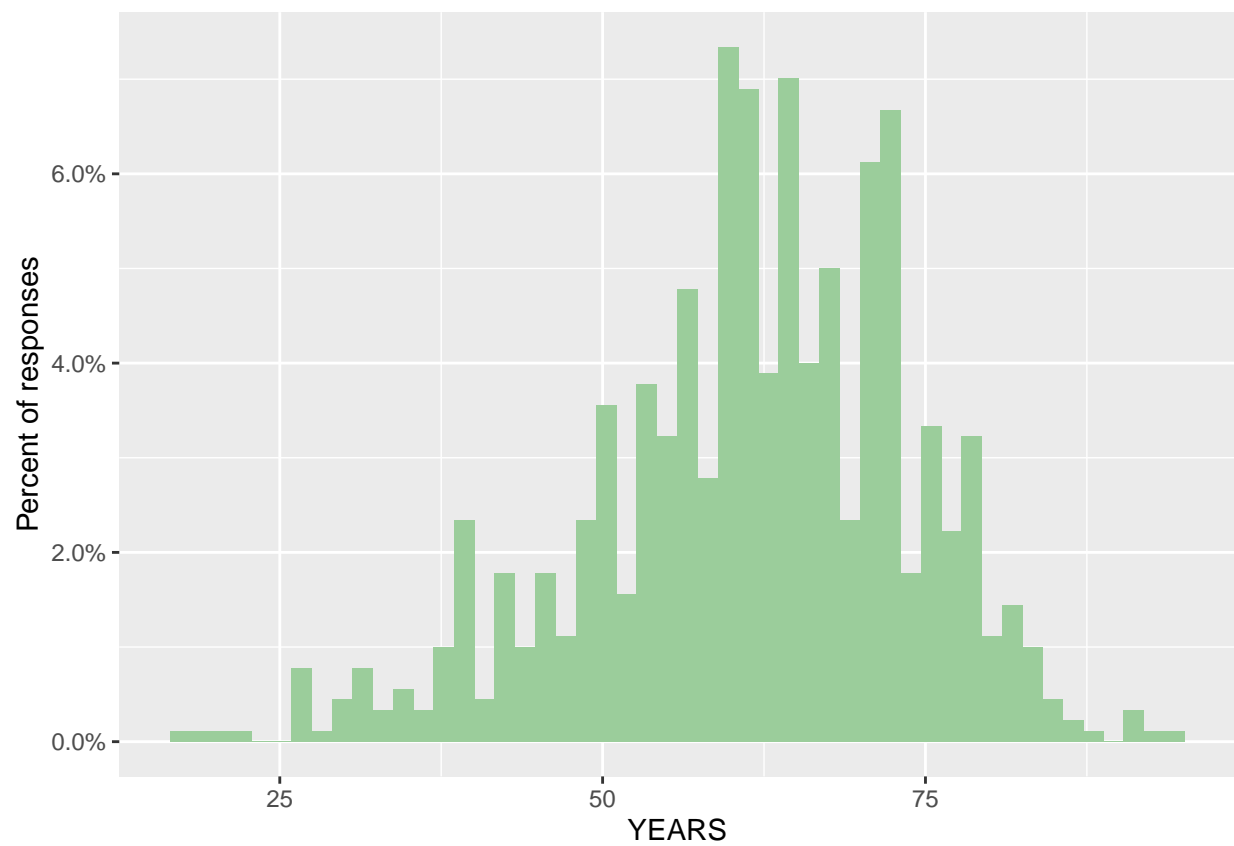
| | n |
|-------------------------------|-----|
| non-response | 36 |
| Less than high school diploma | 9 |
| High school/GED | 119 |
| Some college | 139 |
| Associate's degree | 78 |
| Bachelor's degree | 296 |
| Advanced/Graduate degree | 272 |

Tree Farmer totals

| | n |
|-------------------------------|-----|
| non-response | 34 |
| Less than high school diploma | 1 |
| High school/GED | 67 |
| Some college | 142 |
| Associate's degree | 106 |
| Bachelor's degree | 487 |
| Advanced/Graduate degree | 559 |

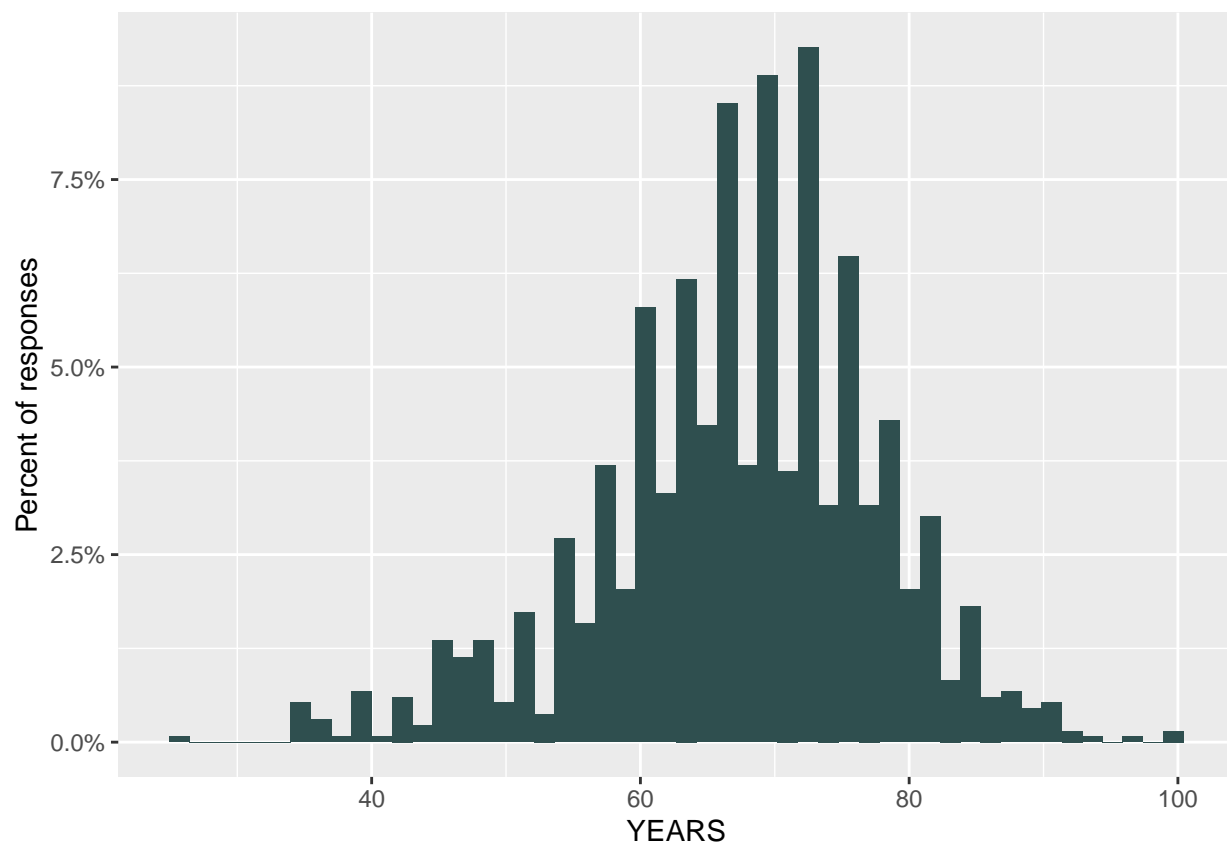
AGE

What is your age?



Landowner totals

| Min. | 1st Qu. | Median | Mean | 3rd Qu. | Max. |
|------|---------|--------|---------|---------|------|
| 18 | 55 | 63 | 61.5317 | 71 | 95 |

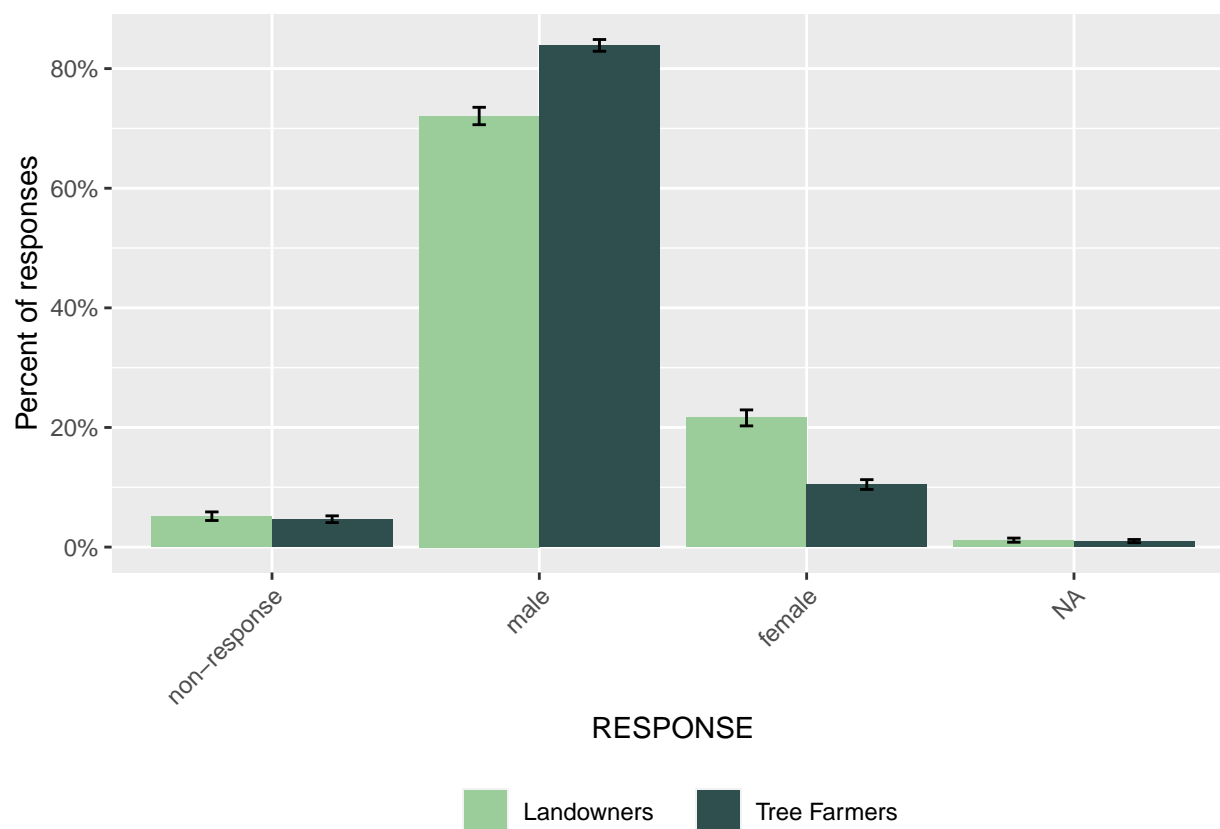


Tree Farmer totals

| Min. | 1st Qu. | Median | Mean | 3rd Qu. | Max. |
|------|---------|--------|----------|---------|------|
| 26 | 62 | 68 | 67.45633 | 74 | 100 |

GENDER

What is your gender?



Landowner totals

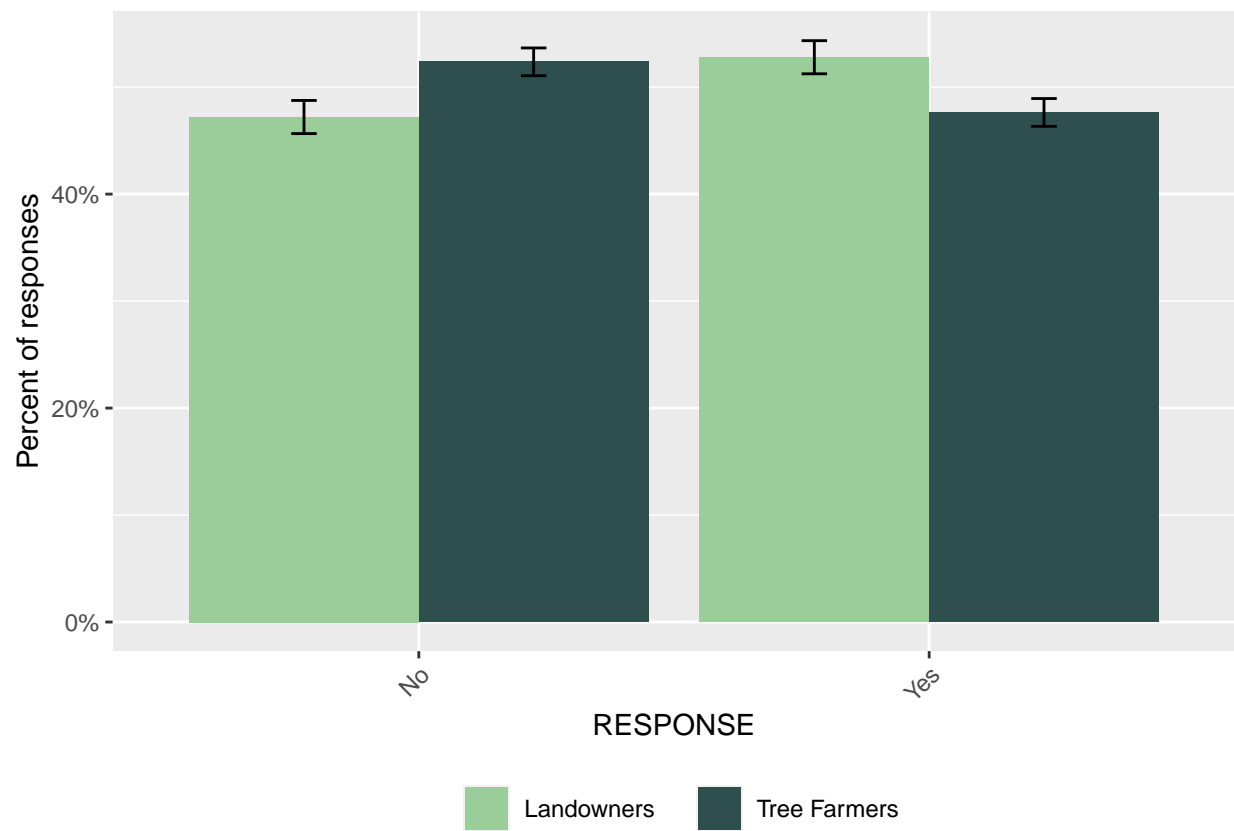
| | n |
|--------------|-----|
| non-response | 49 |
| male | 684 |
| female | 205 |
| NA's | 11 |

Tree Farmer totals

| | n |
|--------------|------|
| non-response | 65 |
| male | 1171 |
| female | 146 |
| NA's | 14 |

HOME

Which, if any, of the following do you own within a mile of your wooded land? Home (primary residence)



Landowner totals

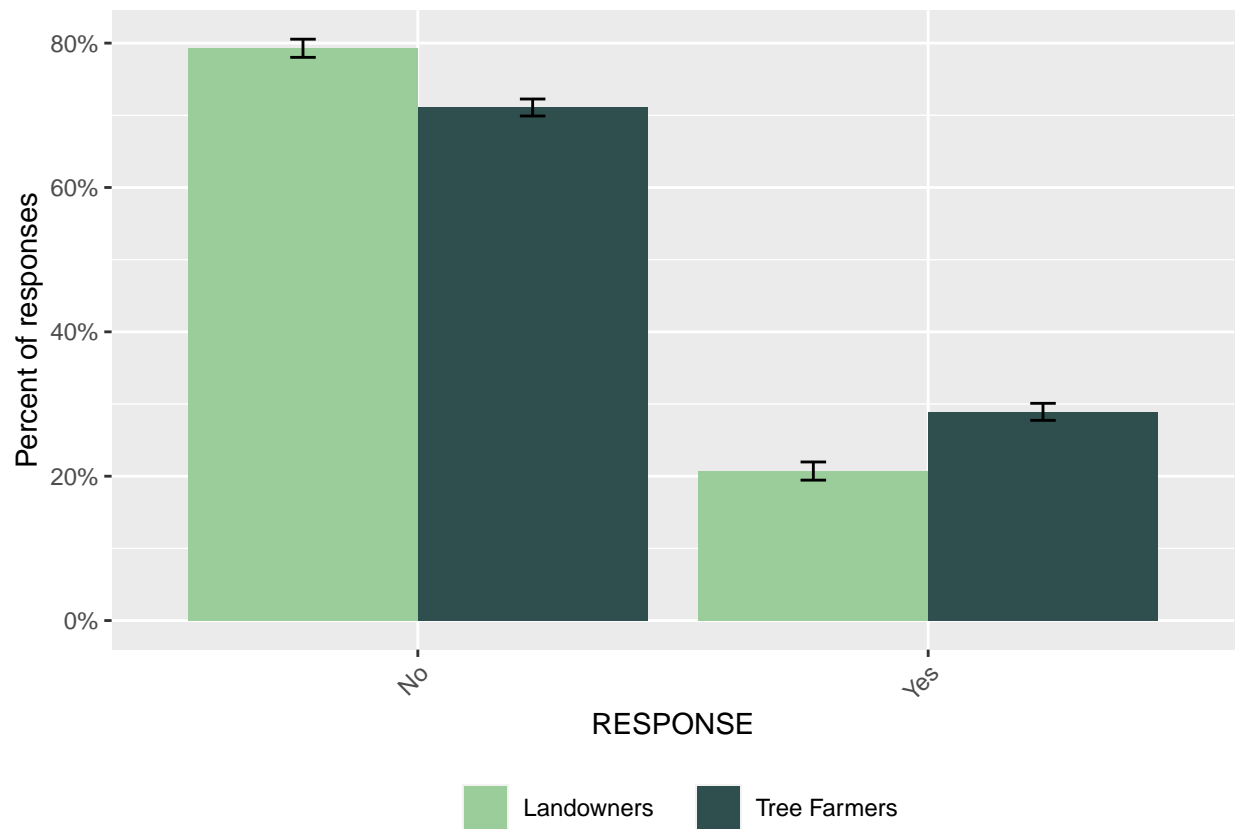
| | n |
|-----|-----|
| No | 490 |
| Yes | 548 |

Tree Farmer totals

| | n |
|-----|-----|
| No | 775 |
| Yes | 705 |

CABIN

Which, if any, of the following do you own within a mile of your wooded land? Cabin or secondary residence



Landowner totals

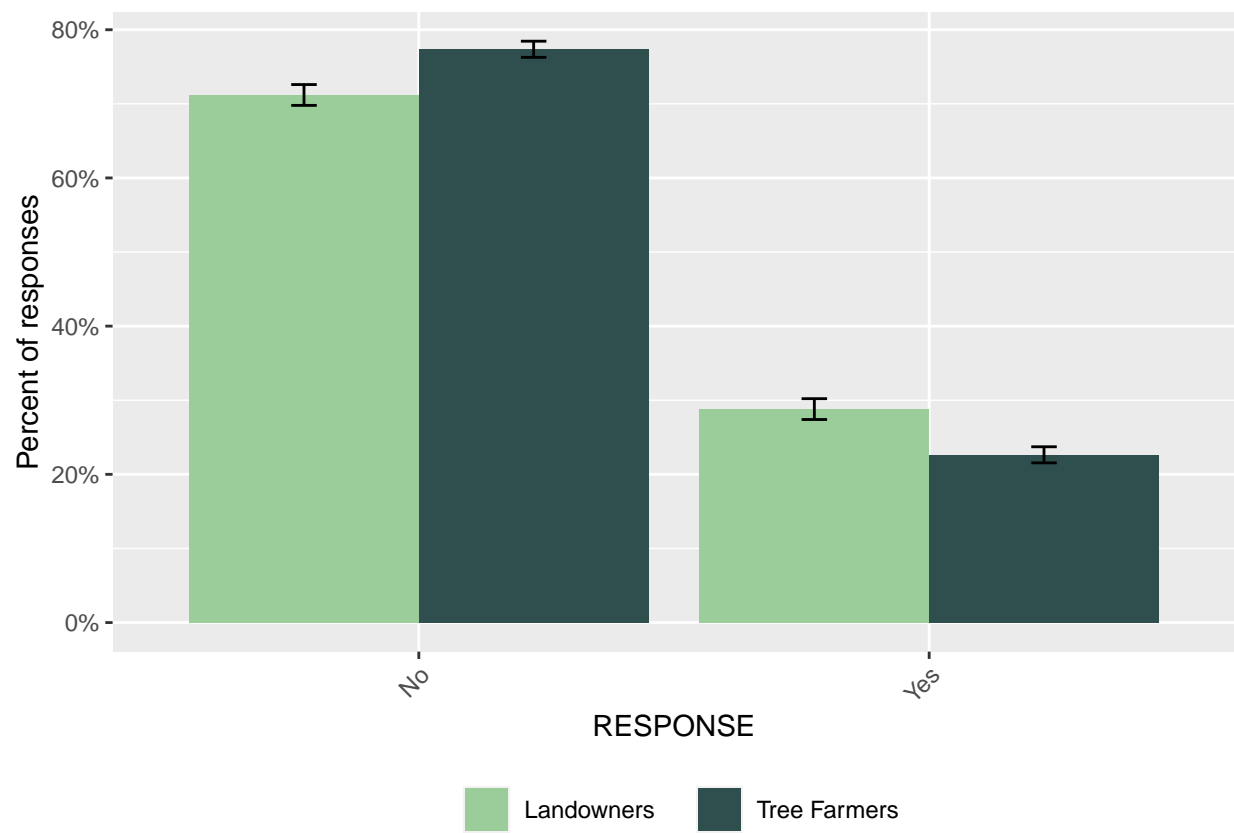
| | n |
|-----|-----|
| No | 823 |
| Yes | 215 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1052 |
| Yes | 428 |

FARM

Which, if any, of the following do you own within a mile of your wooded land? Farm or ranch



Landowner totals

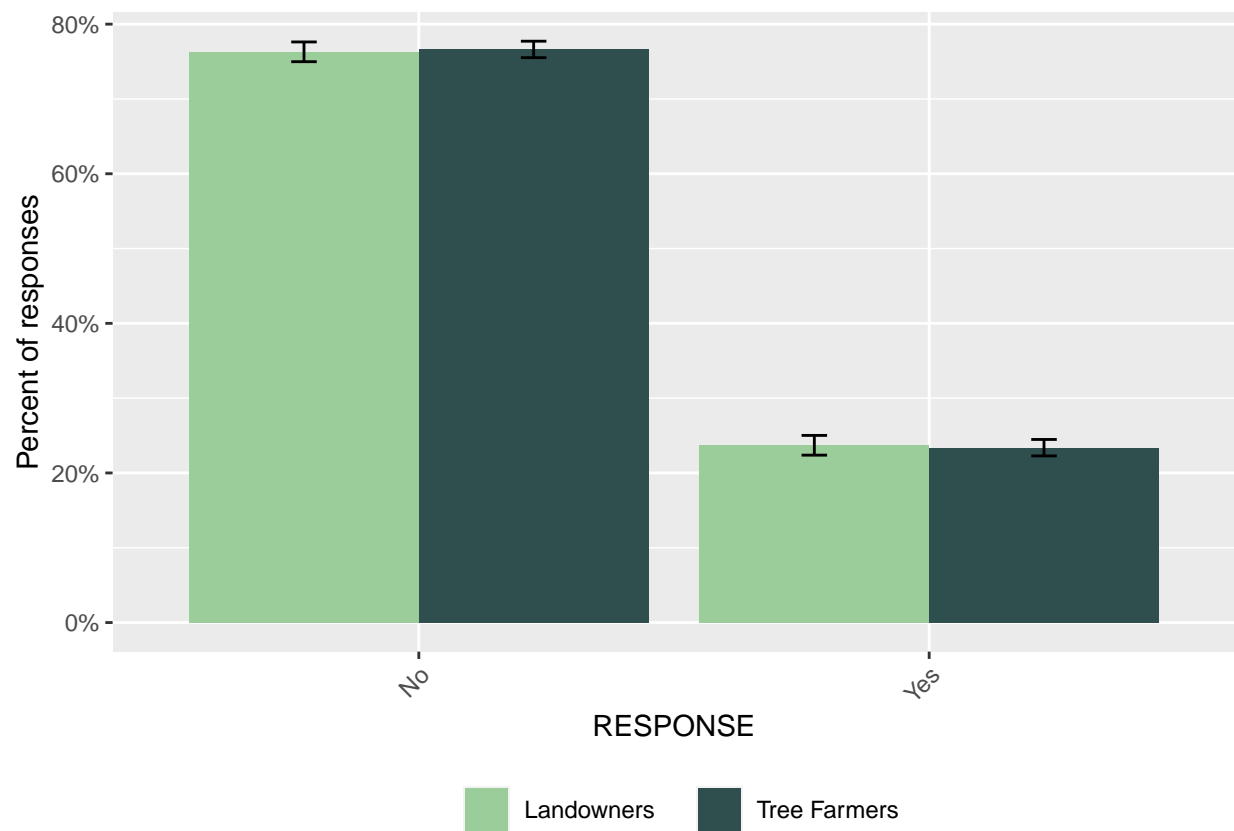
| | n |
|-----|-----|
| No | 739 |
| Yes | 299 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1145 |
| Yes | 335 |

HOME_NONE

Which, if any, of the following do you own within a mile of your wooded land? None of the above



Landowner totals

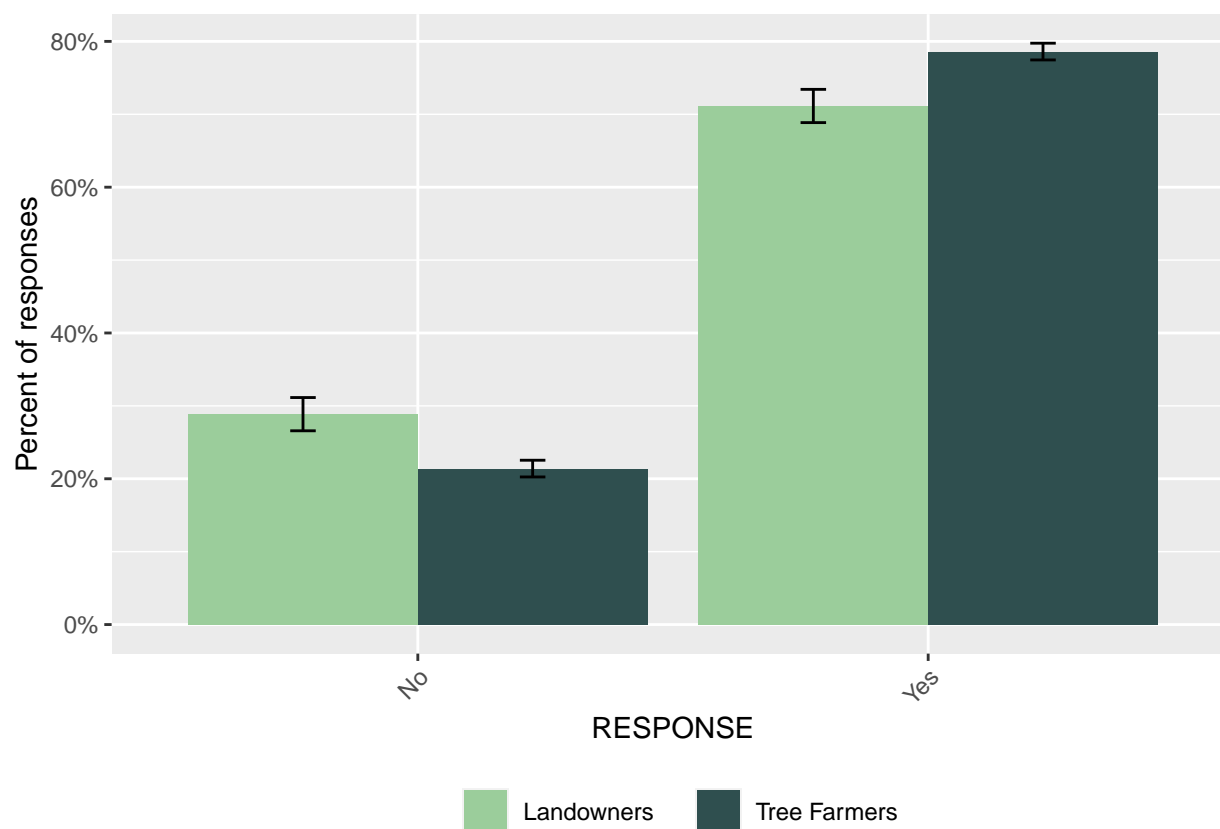
| | n |
|-----|-----|
| No | 792 |
| Yes | 246 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1134 |
| Yes | 346 |

ADV_TALK

How have you received advice about your wooded land in the past 5 years? Talked to someone



Landowner totals

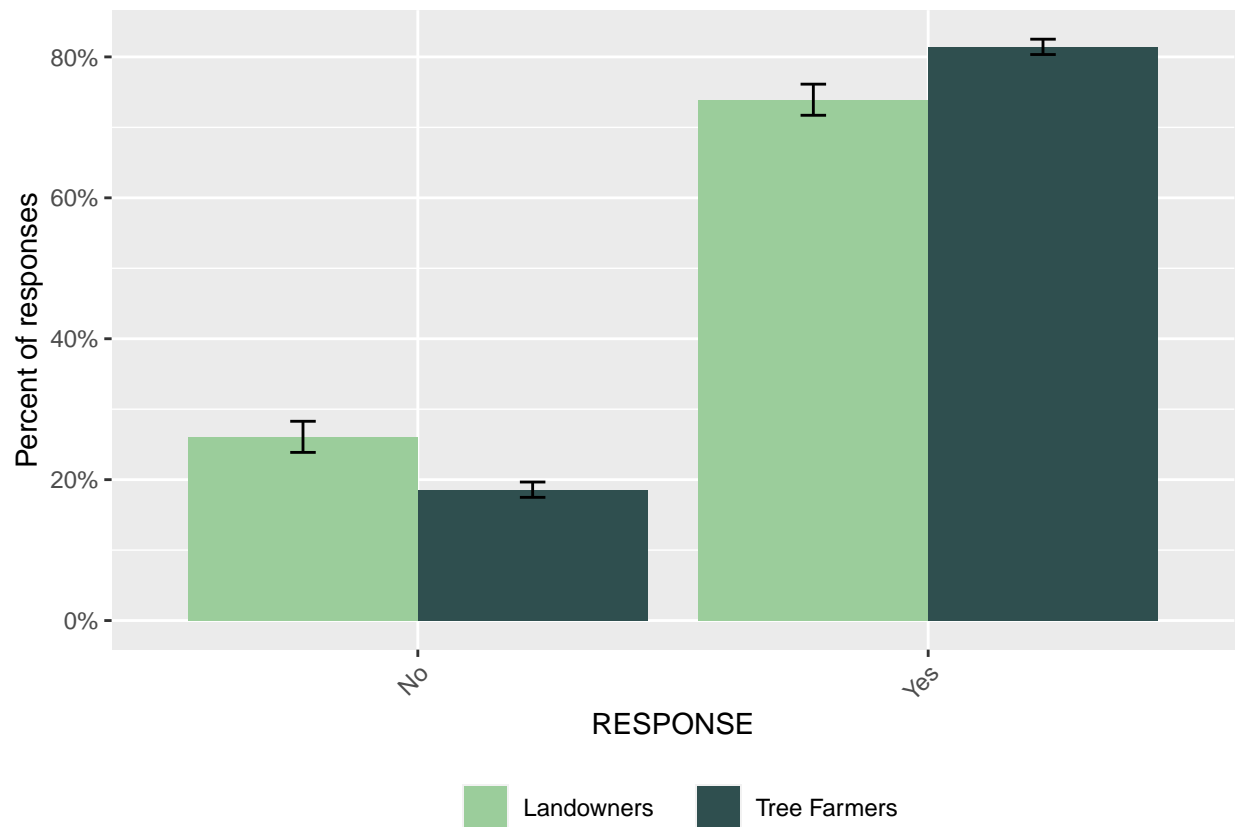
| | n |
|-----|-----|
| No | 114 |
| Yes | 281 |

Tree Farmer totals

| | n |
|-----|------|
| No | 273 |
| Yes | 1003 |

ADV_VISIT

How have you received advice about your wooded land in the past 5 years? Someone visited my land



Landowner totals

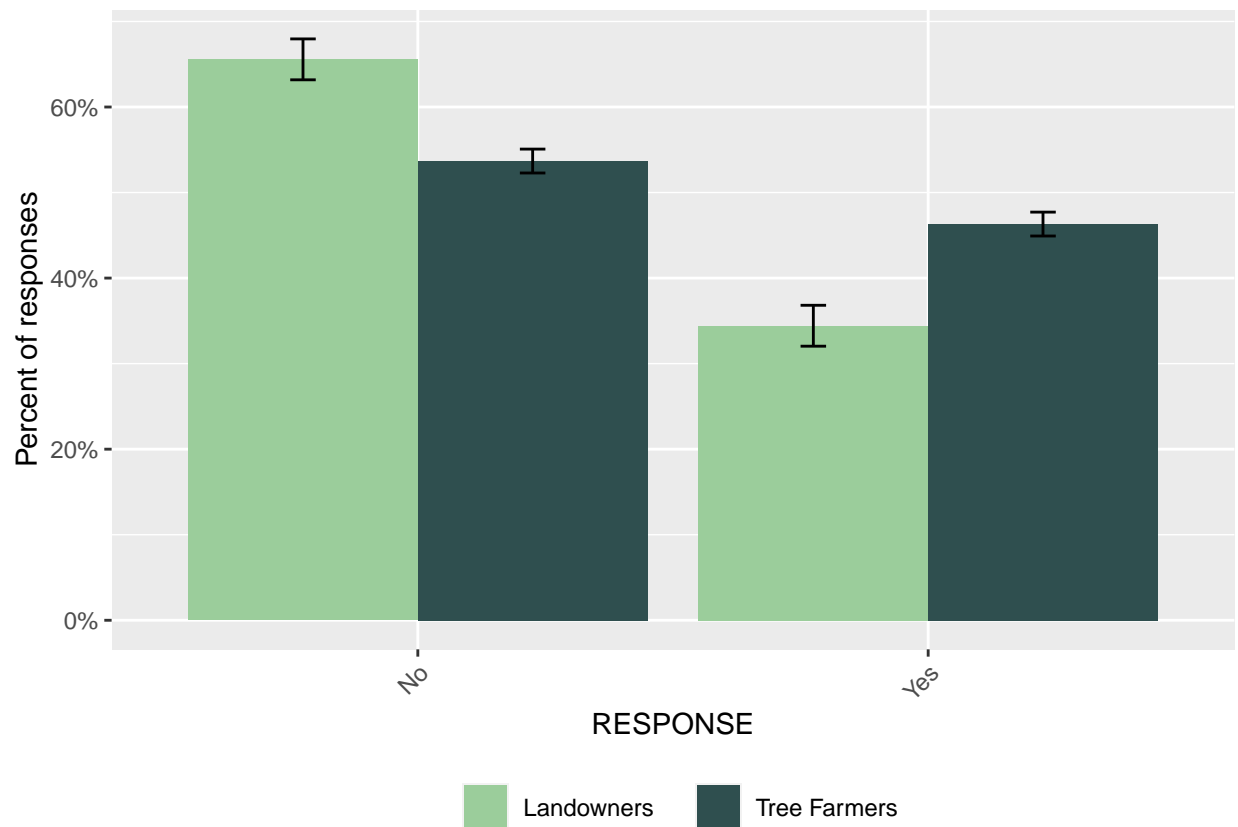
| | n |
|-----|-----|
| No | 103 |
| Yes | 292 |

Tree Farmer totals

| | n |
|-----|------|
| No | 237 |
| Yes | 1039 |

ADV_WRITTEN

How have you received advice about your wooded land in the past 5 years? Received a brochure or other written material



Landowner totals

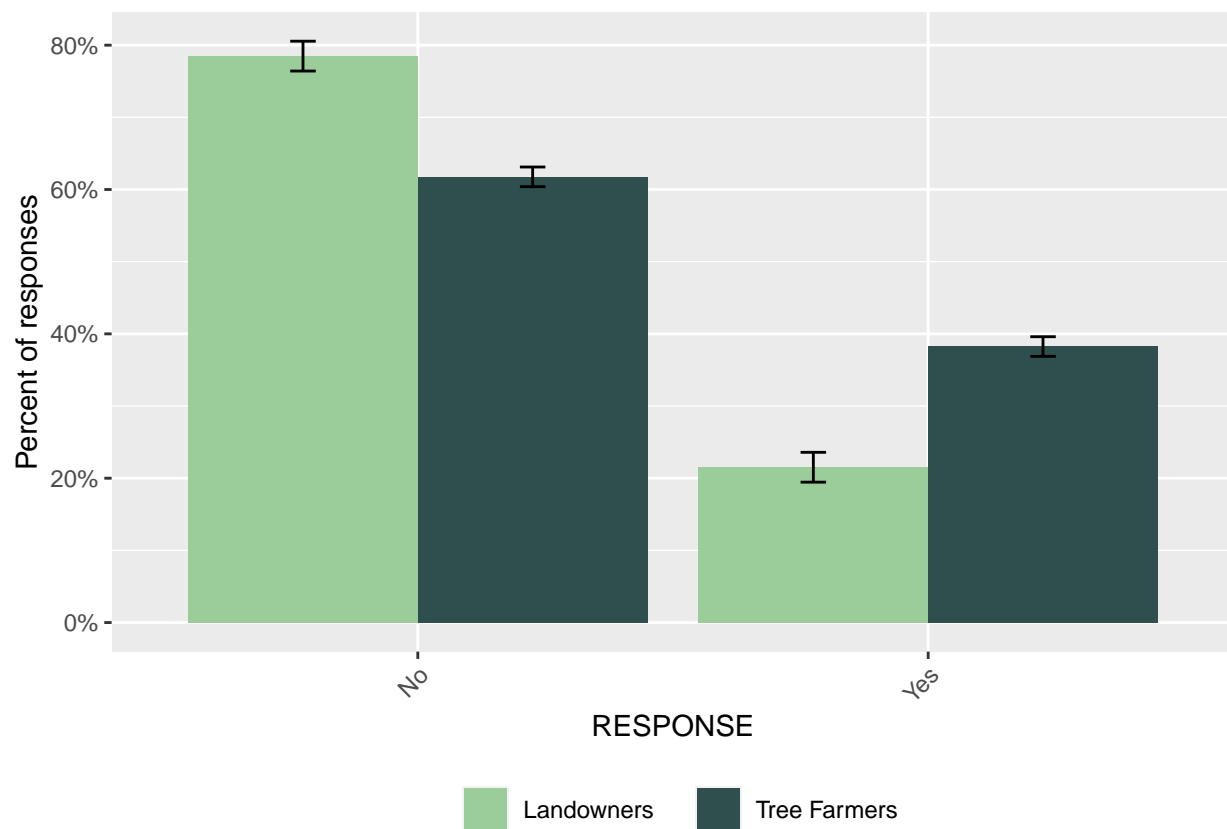
| | n |
|-----|-----|
| No | 259 |
| Yes | 136 |

Tree Farmer totals

| | n |
|-----|-----|
| No | 685 |
| Yes | 591 |

ADV__INTERNET

How have you received advice about your wooded land in the past 5 years? From the internet



Landowner totals

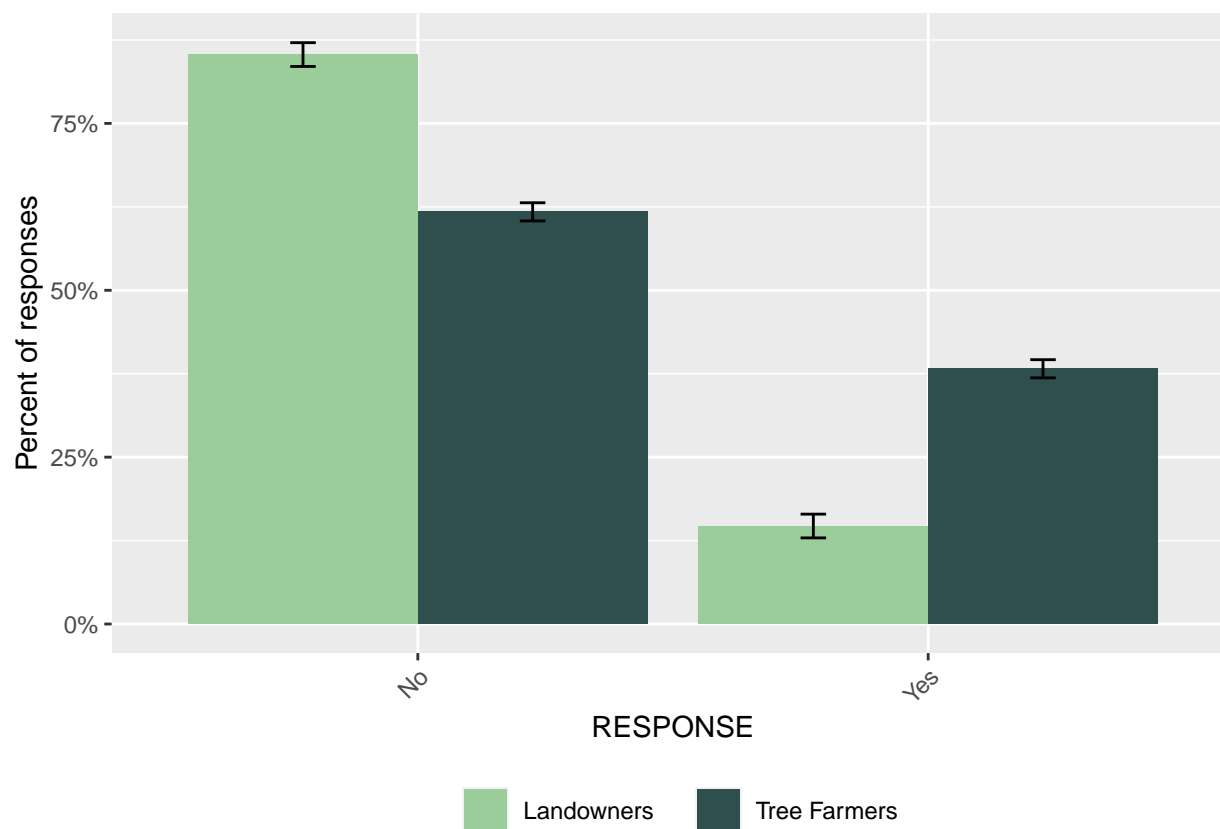
| | n |
|-----|-----|
| No | 310 |
| Yes | 85 |

Tree Farmer totals

| | n |
|-----|-----|
| No | 788 |
| Yes | 488 |

ADV_EMAIL

How have you received advice about your wooded land in the past 5 years? Email/E-newsletter



Landowner totals

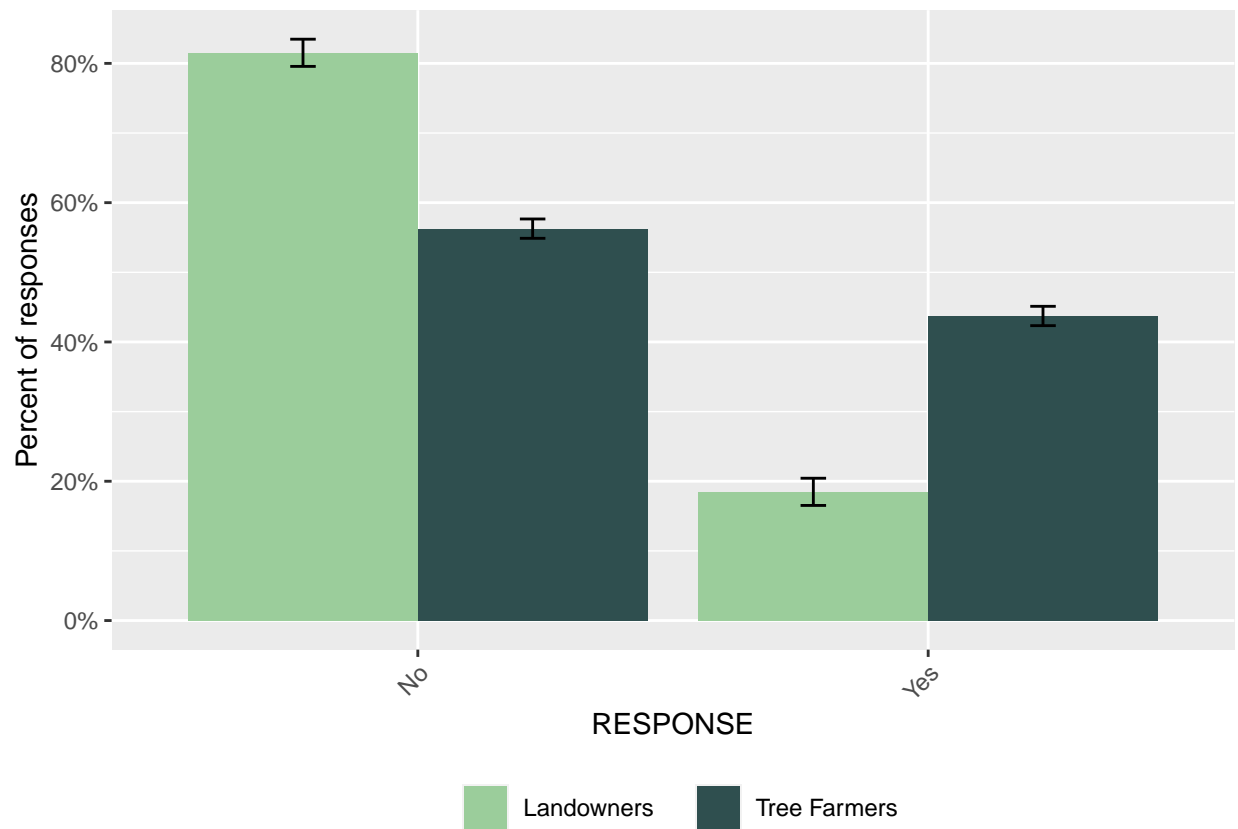
| | n |
|-----|-----|
| No | 337 |
| Yes | 58 |

Tree Farmer totals

| | n |
|-----|-----|
| No | 788 |
| Yes | 488 |

ADV_WORKSHOP

How have you received advice about your wooded land in the past 5 years? Attended a conference or workshop



Landowner totals

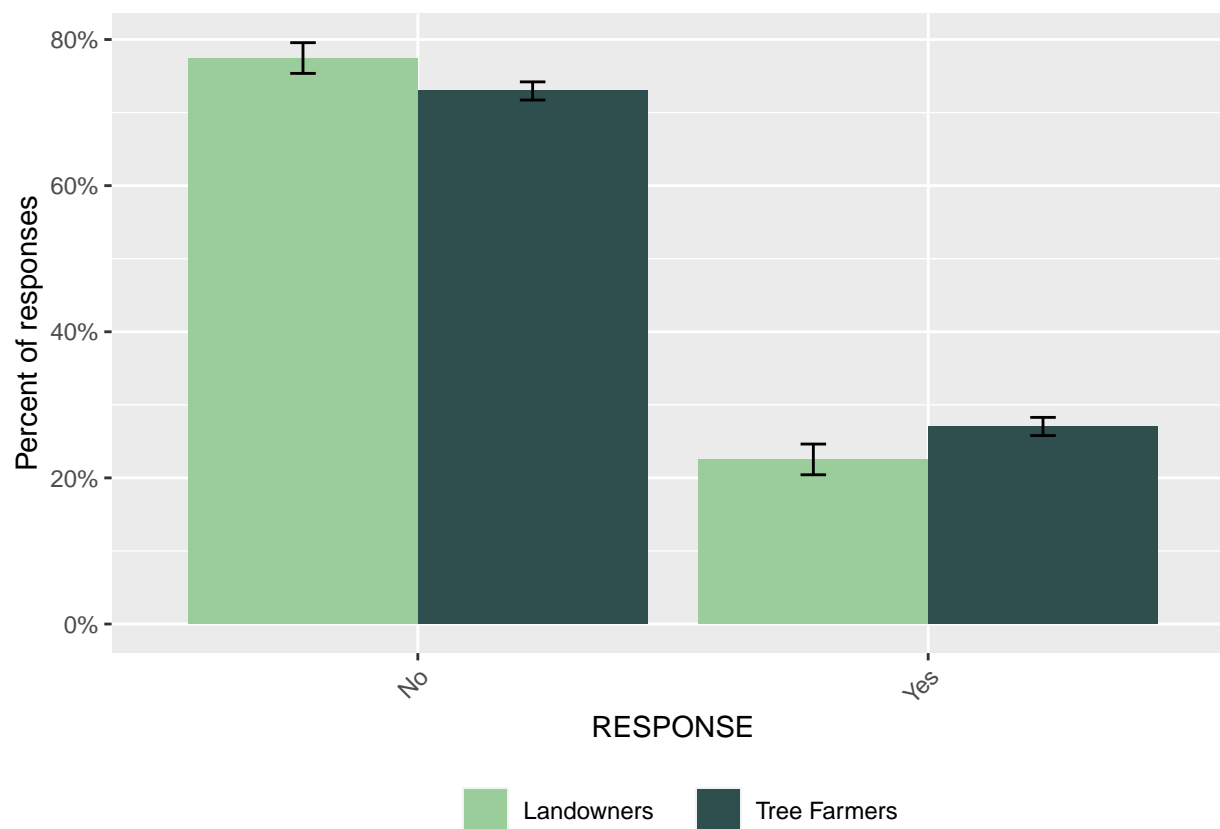
| | n |
|-----|-----|
| No | 322 |
| Yes | 73 |

Tree Farmer totals

| | n |
|-----|-----|
| No | 718 |
| Yes | 558 |

ADV_OTH

How have you received advice about your wooded land in the past 5 years? Other (please specify)



Landowner totals

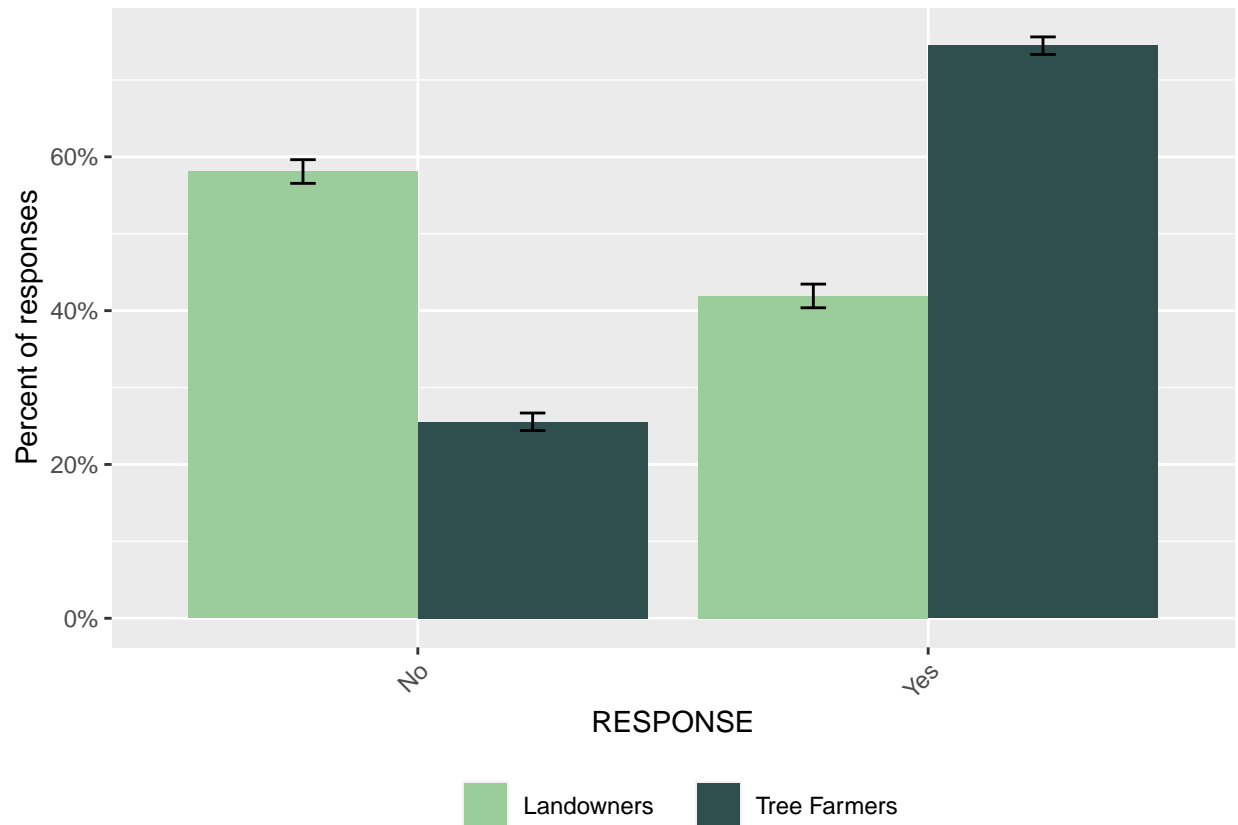
| | n |
|-----|-----|
| No | 306 |
| Yes | 89 |

Tree Farmer totals

| | n |
|-----|-----|
| No | 931 |
| Yes | 345 |

ACT_CUTSALE

Which, if any, of the following activities have occurred on your wooded land since you have owned it? Cut trees for sale



Landowner totals

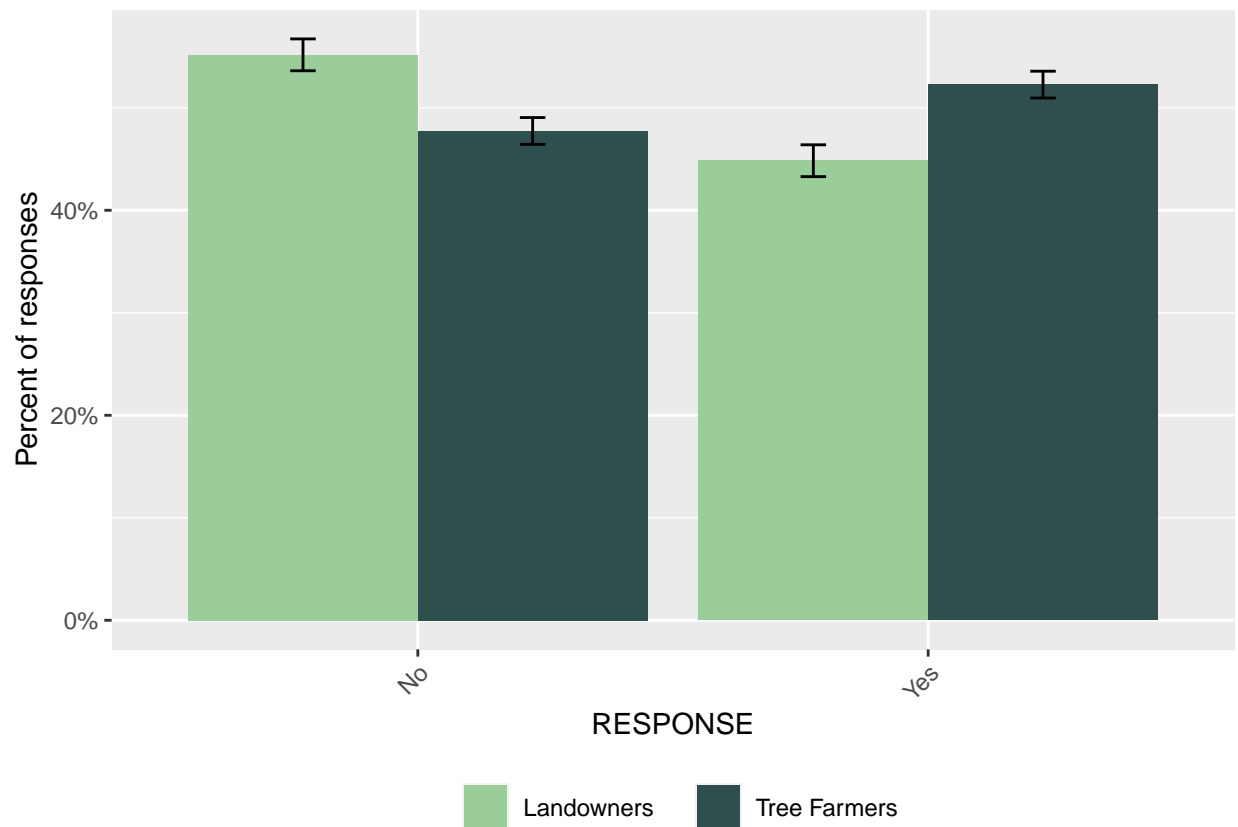
| | n |
|-----|-----|
| No | 596 |
| Yes | 430 |

Tree Farmer totals

| | n |
|-----|------|
| No | 373 |
| Yes | 1087 |

ACT_CUTNOSALE

Which, if any, of the following activities have occurred on your wooded land since you have owned it? Cut trees not for sale



Landowner totals

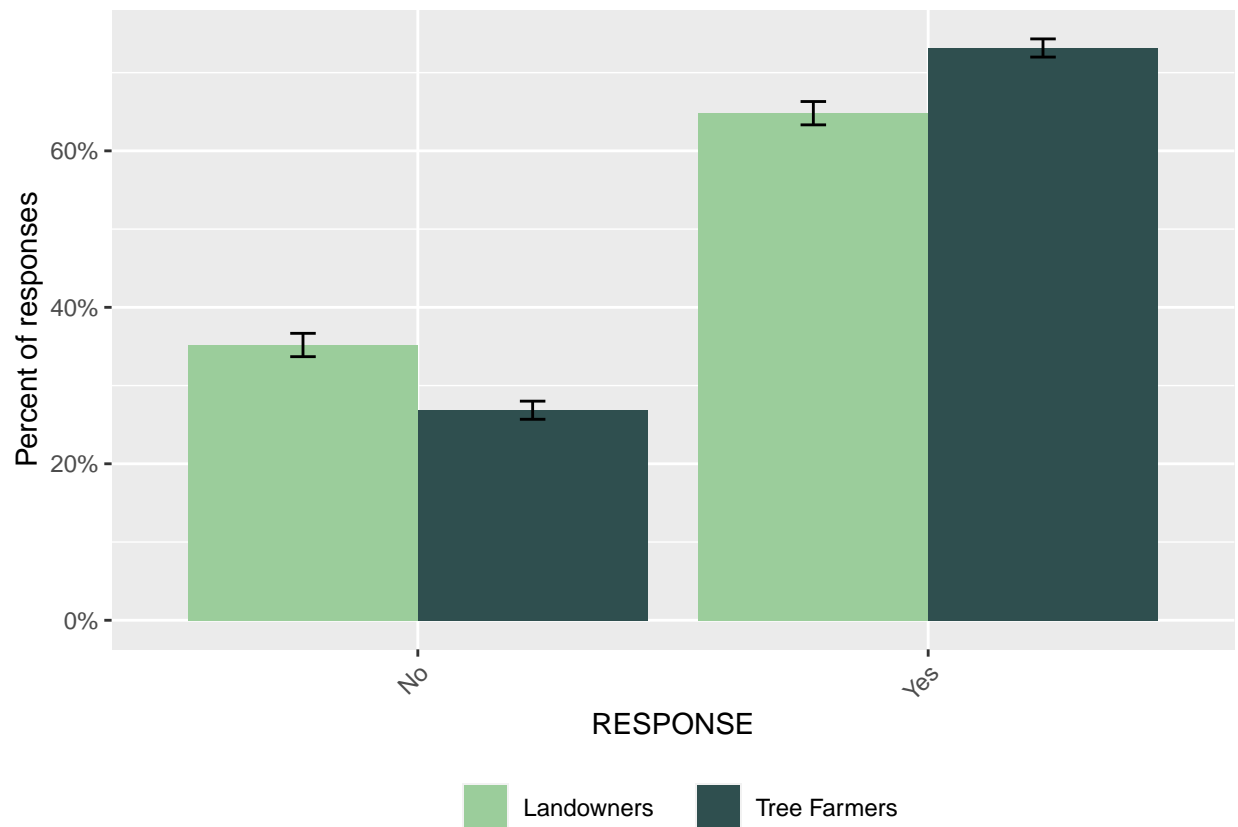
| | n |
|-----|-----|
| No | 566 |
| Yes | 460 |

Tree Farmer totals

| | n |
|-----|-----|
| No | 697 |
| Yes | 763 |

ACT_CUTBRUSH

Which, if any, of the following activities have occurred on your wooded land since you have owned it? Cut brush



Landowner totals

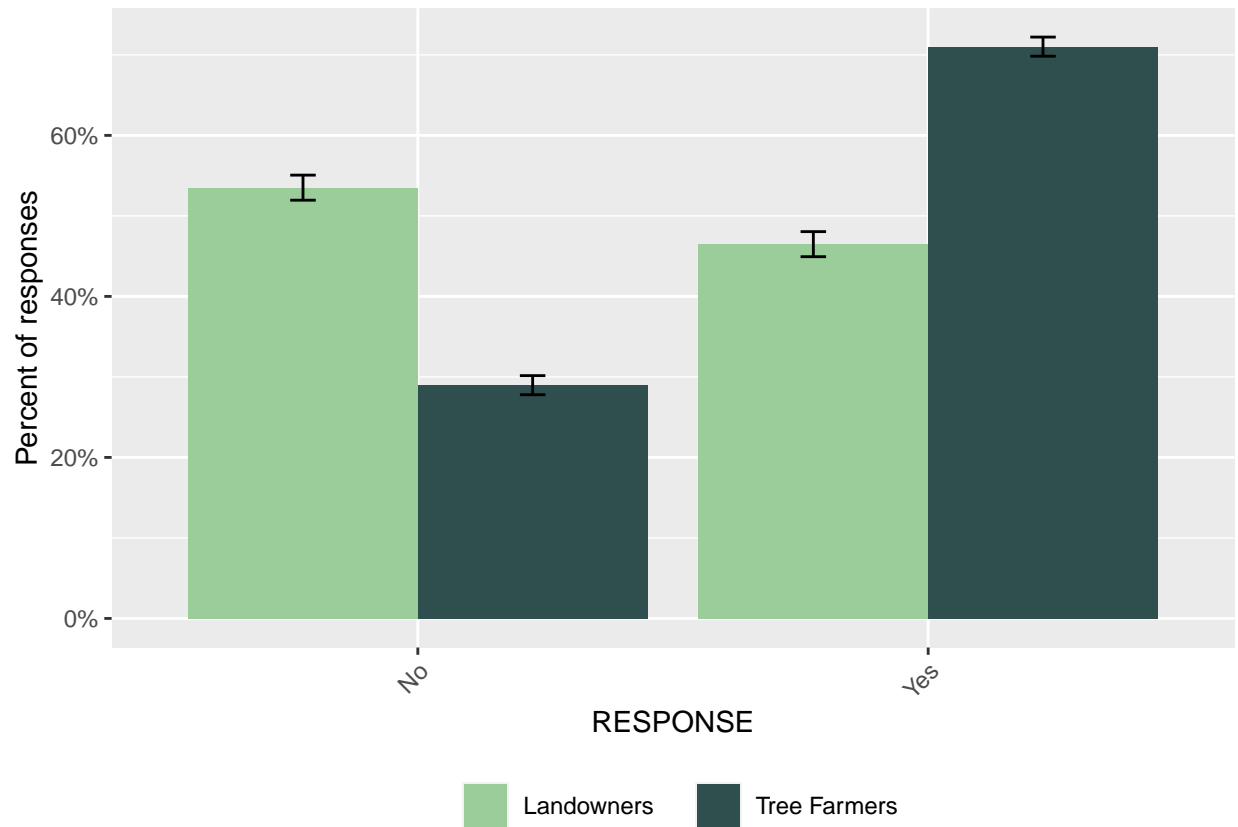
| | n |
|-----|-----|
| No | 361 |
| Yes | 665 |

Tree Farmer totals

| | n |
|-----|------|
| No | 392 |
| Yes | 1068 |

ACT_INVASIVE

Which, if any, of the following activities have occurred on your wooded land since you have owned it? Reduced or removed invasive plants



Landowner totals

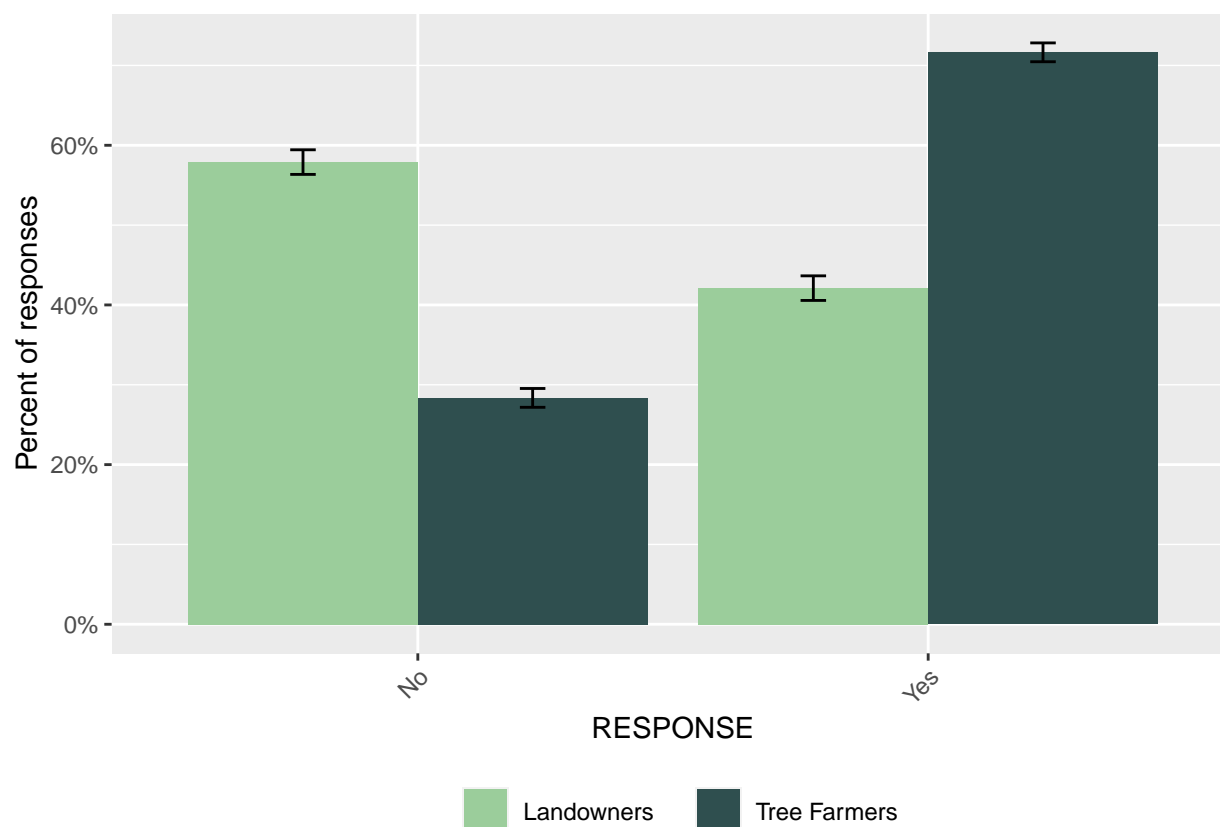
| | n |
|-----|-----|
| No | 549 |
| Yes | 477 |

Tree Farmer totals

| | n |
|-----|------|
| No | 423 |
| Yes | 1037 |

ACT_PLANT

Which, if any, of the following activities have occurred on your wooded land since you have owned it? Planted trees



Landowner totals

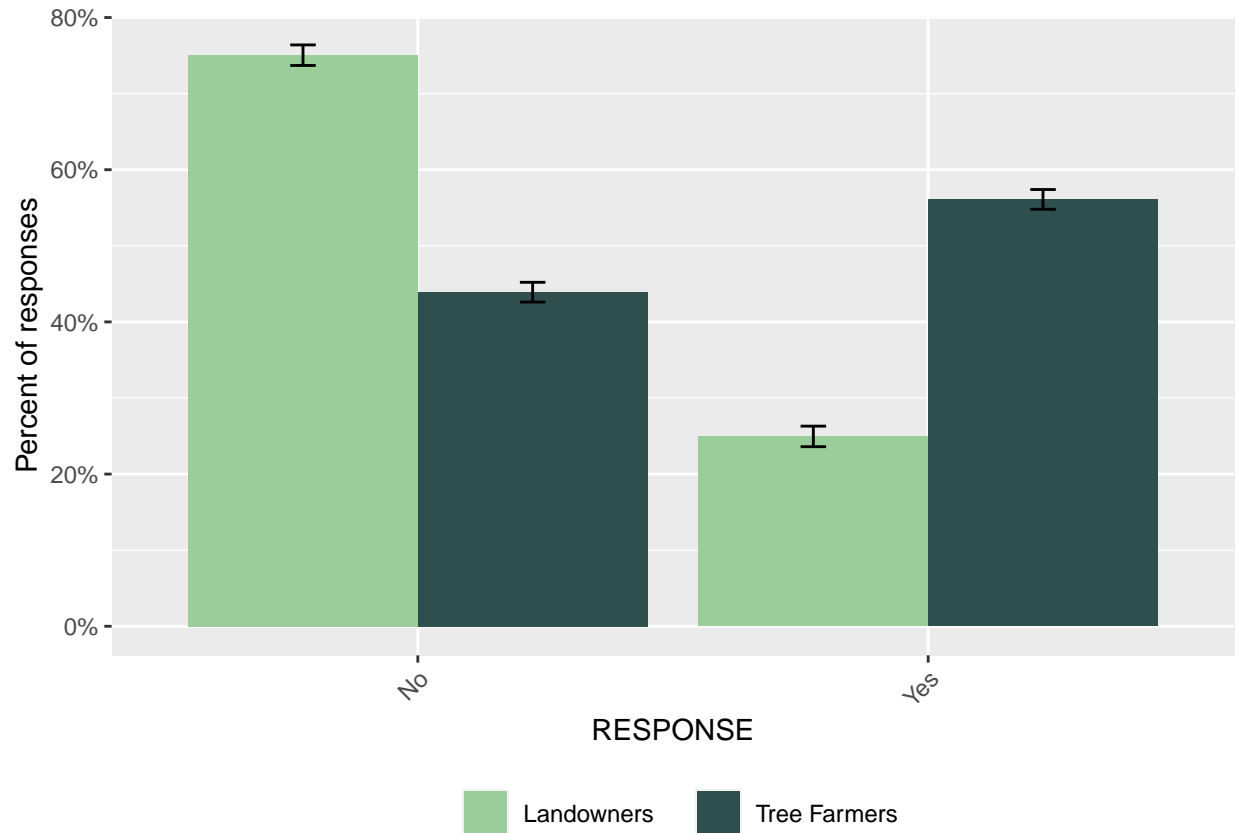
| | n |
|-----|-----|
| No | 594 |
| Yes | 432 |

Tree Farmer totals

| | n |
|-----|------|
| No | 414 |
| Yes | 1046 |

ACT_HERBICIDES

Which, if any, of the following activities have occurred on your wooded land since you have owned it? Used herbicides



Landowner totals

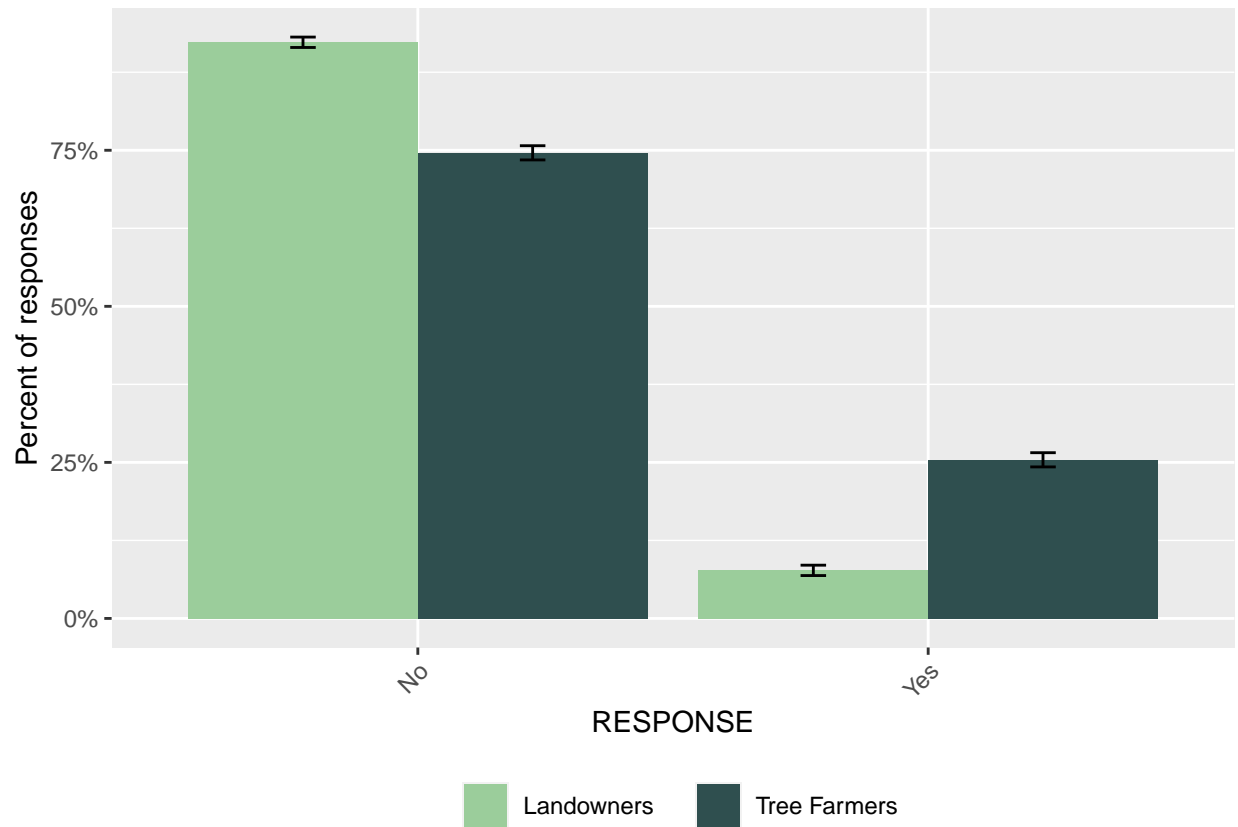
| | n |
|-----|-----|
| No | 770 |
| Yes | 256 |

Tree Farmer totals

| | n |
|-----|-----|
| No | 641 |
| Yes | 819 |

ACT_FIRE

Which, if any, of the following activities have occurred on your wooded land since you have owned it? Used prescribed fire



Landowner totals

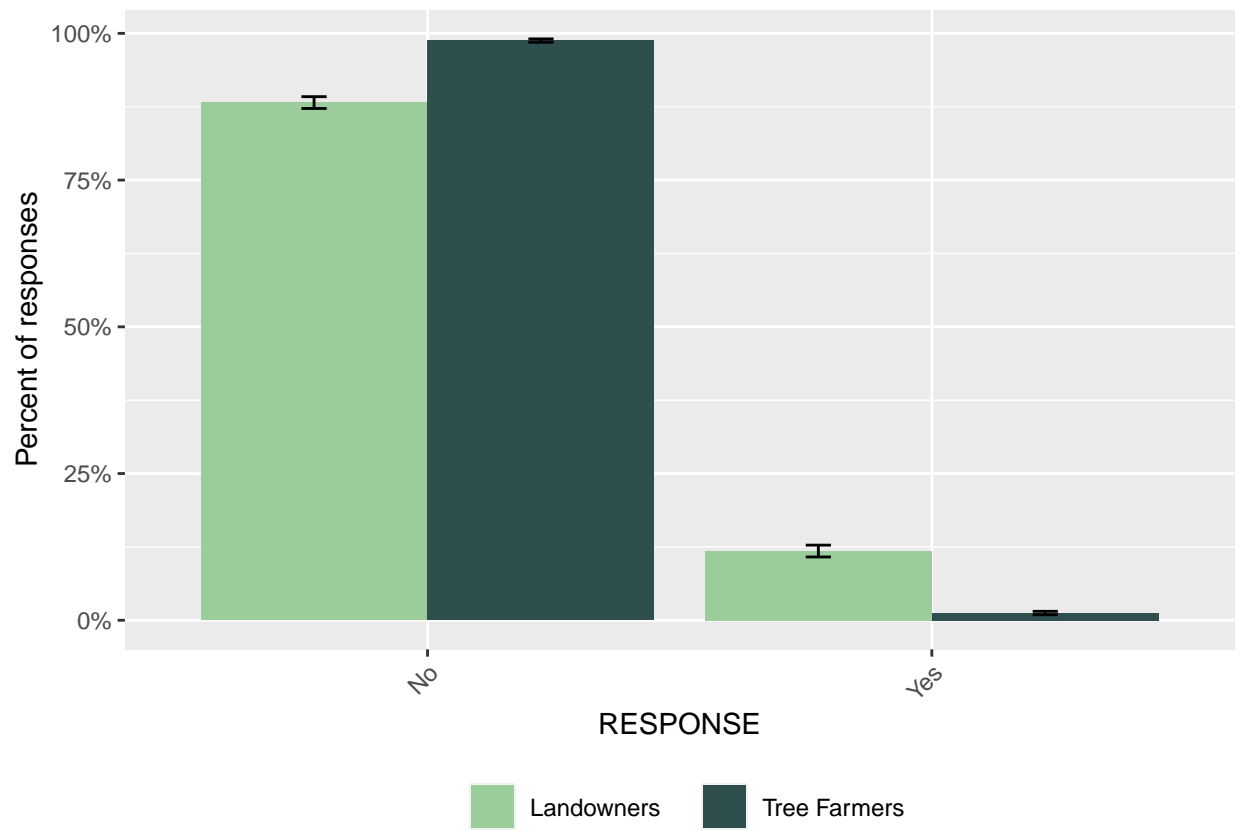
| | n |
|-----|-----|
| No | 947 |
| Yes | 79 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1089 |
| Yes | 371 |

ACT_NONE

Which, if any, of the following activities have occurred on your wooded land since you have owned it? None of the above



Landowner totals

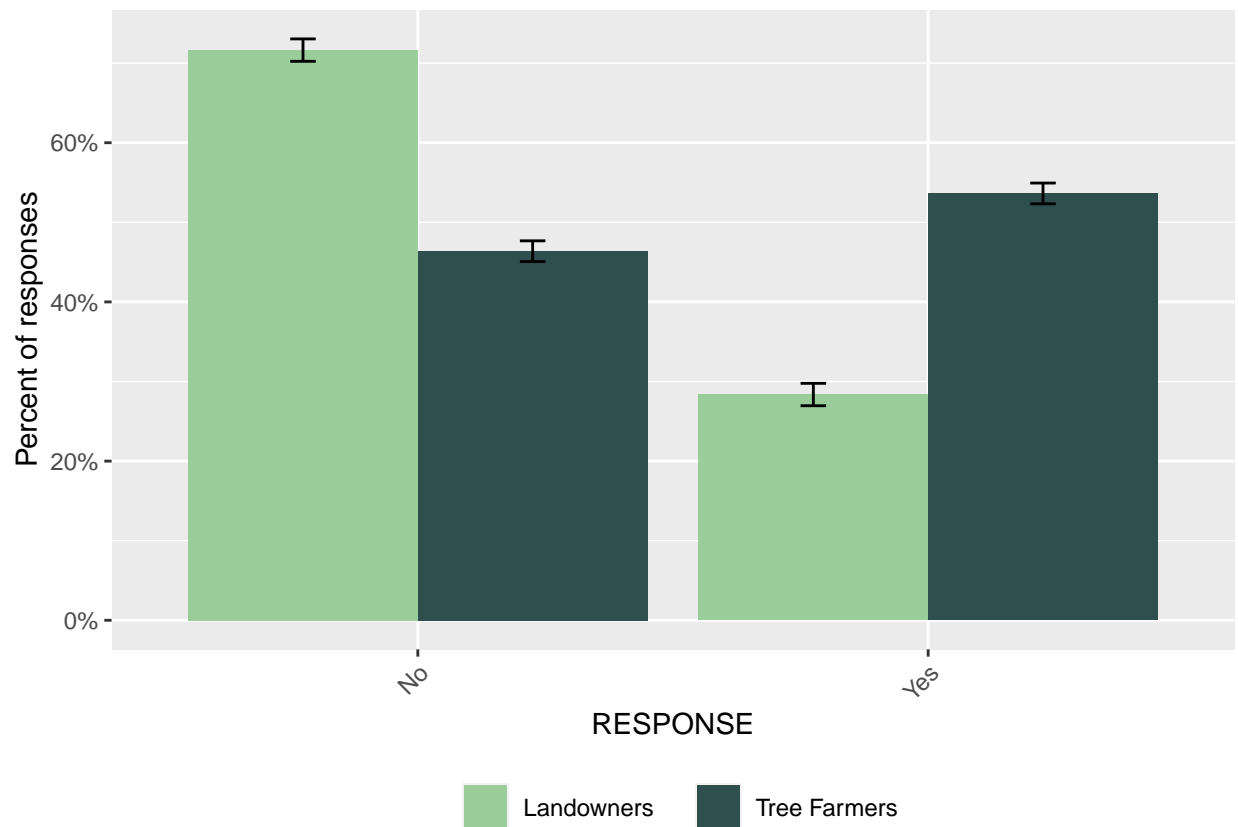
| | n |
|-----|-----|
| No | 905 |
| Yes | 121 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1442 |
| Yes | 18 |

FUT_CUTSALE

Which, if any, of the following activities will likely occur on your wooded land in the next 5 years? Cutting trees for sale



Landowner totals

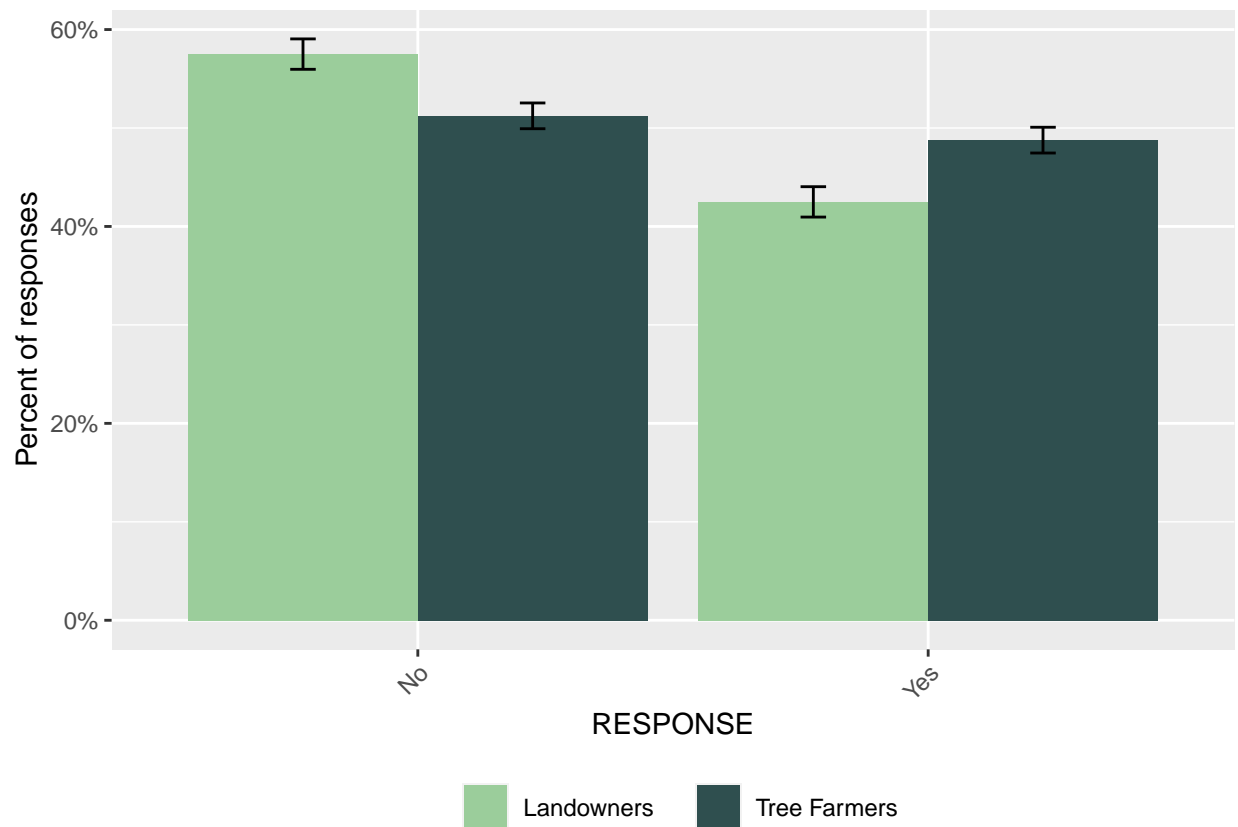
| | n |
|-----|-----|
| No | 735 |
| Yes | 291 |

Tree Farmer totals

| | n |
|-----|-----|
| No | 677 |
| Yes | 783 |

FUT_CUTNOSALE

Which, if any, of the following activities will likely occur on your wooded land in the next 5 years? Cutting trees not for sale



Landowner totals

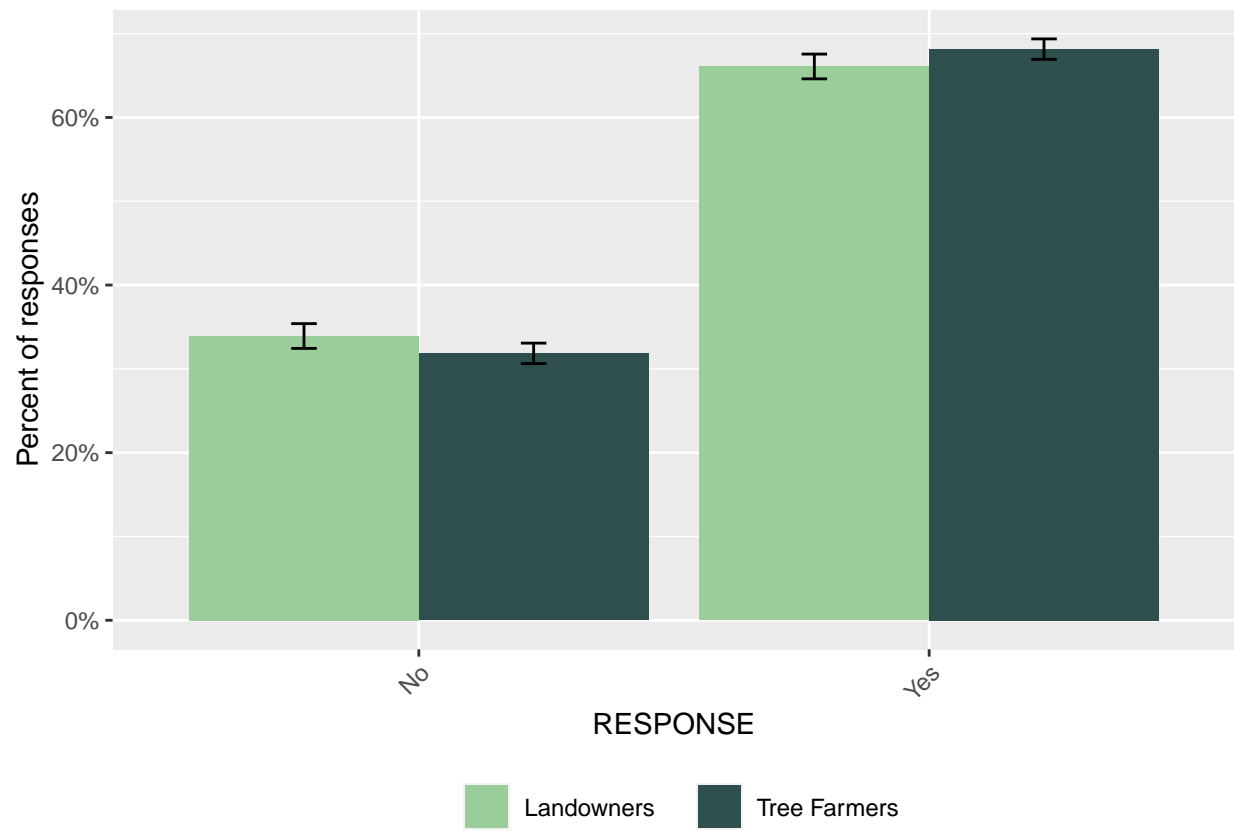
| | n |
|-----|-----|
| No | 590 |
| Yes | 436 |

Tree Farmer totals

| | n |
|-----|-----|
| No | 748 |
| Yes | 712 |

FUT_CUTBRUSH

Which, if any, of the following activities will likely occur on your wooded land in the next 5 years? Cutting brush



Landowner totals

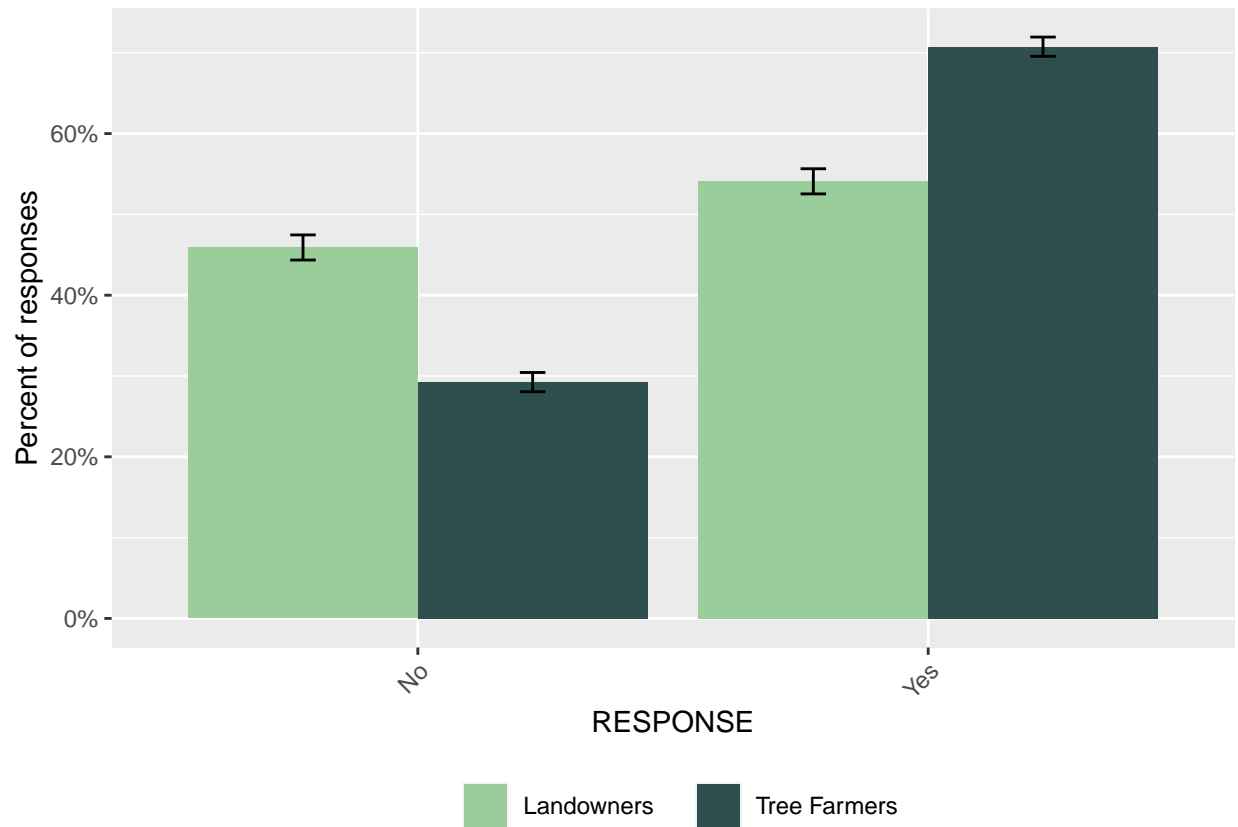
| | n |
|-----|-----|
| No | 348 |
| Yes | 678 |

Tree Farmer totals

| | n |
|-----|-----|
| No | 465 |
| Yes | 995 |

FUT_INVASIVES

Which, if any, of the following activities will likely occur on your wooded land in the next 5 years? Reducing or removing invasive plants



Landowner totals

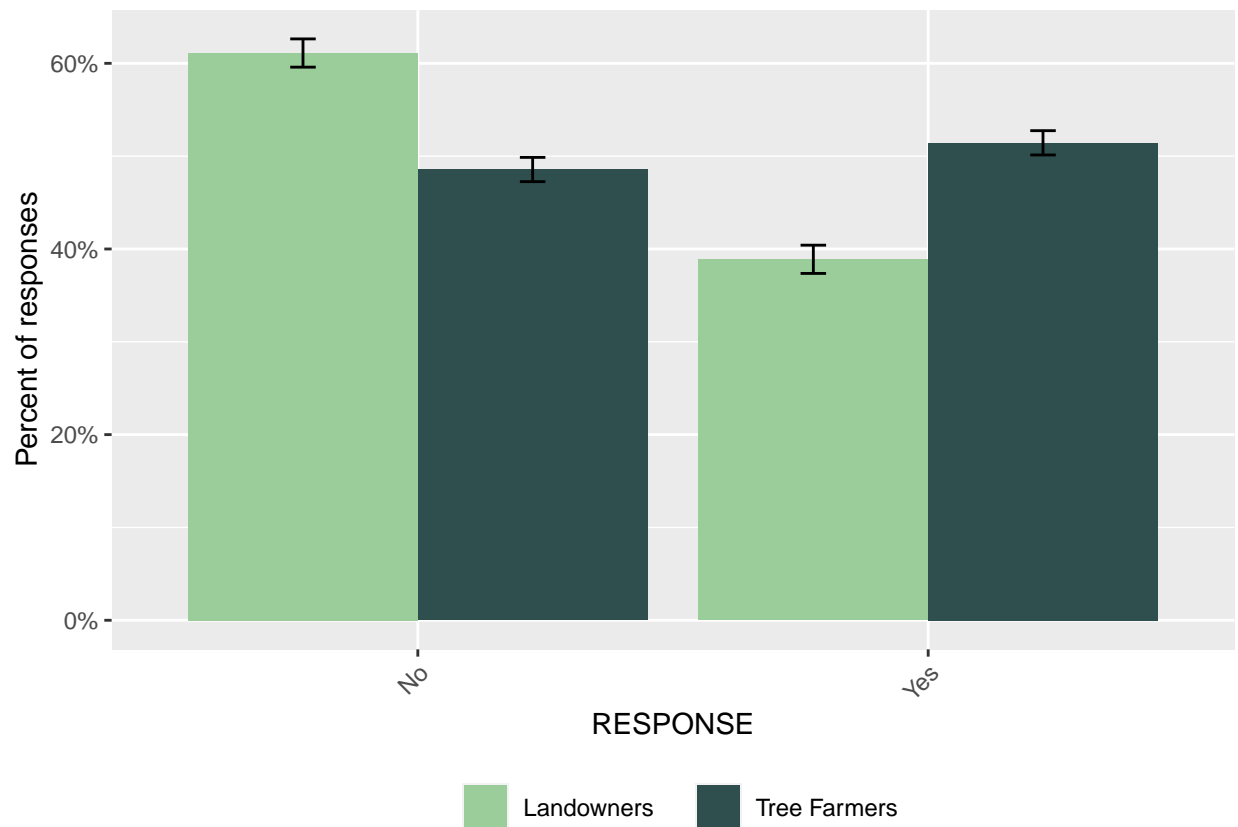
| | n |
|-----|-----|
| No | 471 |
| Yes | 555 |

Tree Farmer totals

| | n |
|-----|------|
| No | 427 |
| Yes | 1033 |

FUT_PLANT

Which, if any, of the following activities will likely occur on your wooded land in the next 5 years? Planting trees



Landowner totals

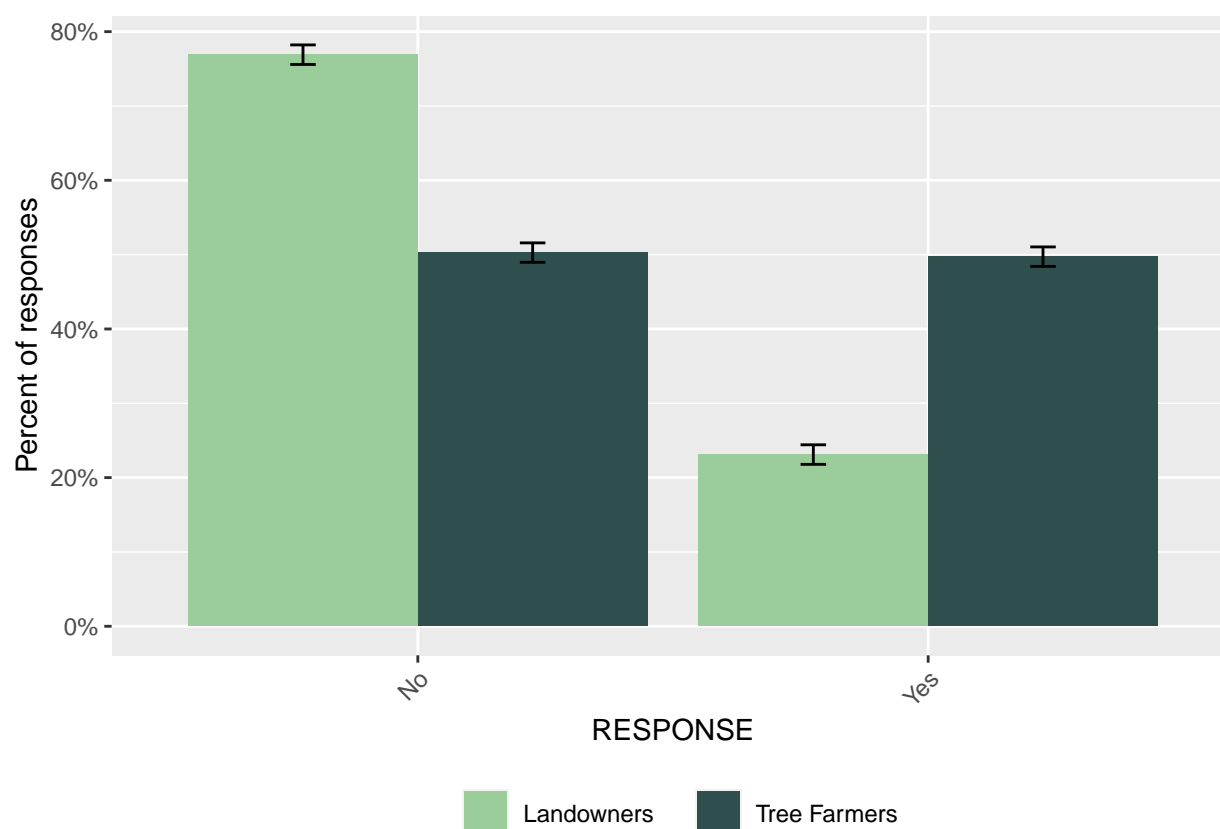
| | n |
|-----|-----|
| No | 627 |
| Yes | 399 |

Tree Farmer totals

| | n |
|-----|-----|
| No | 709 |
| Yes | 751 |

FUT_HERBICIDES

Which, if any, of the following activities will likely occur on your wooded land in the next 5 years? Using herbicides



Landowner totals

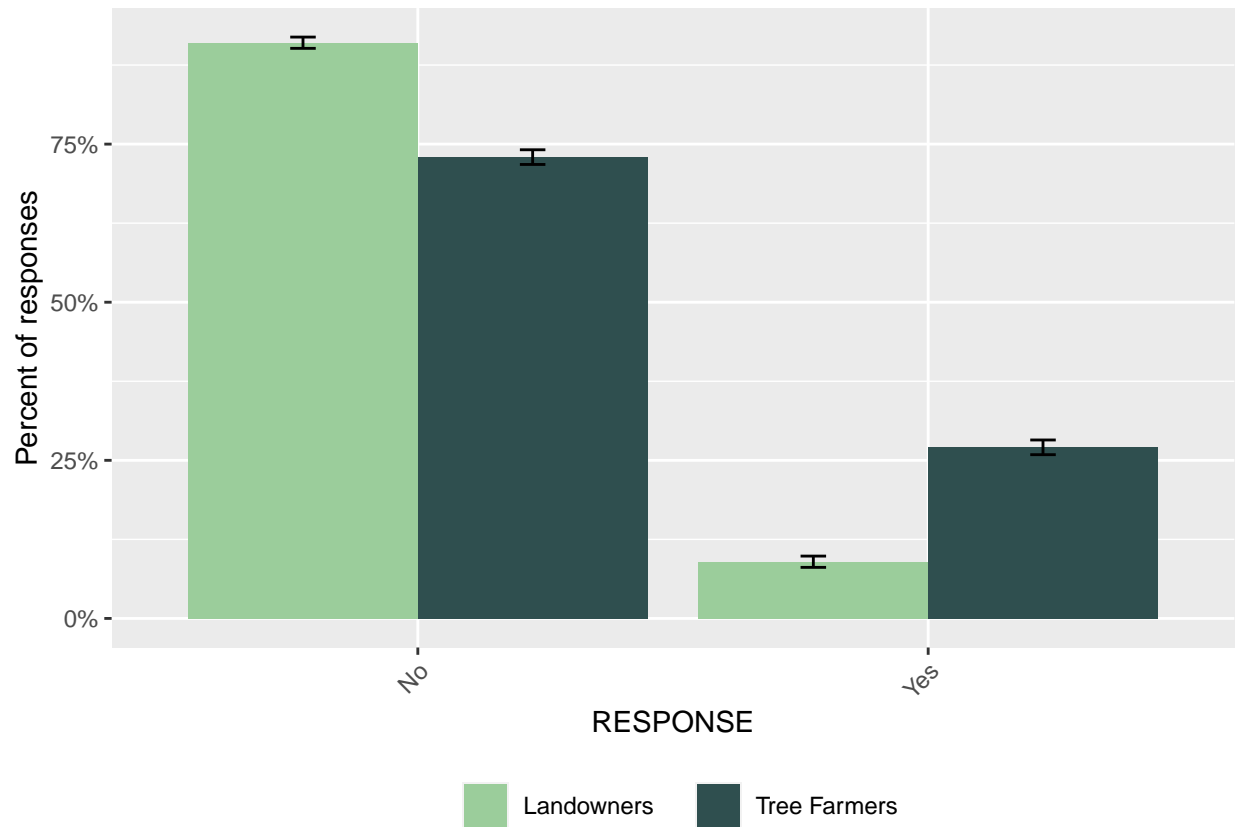
| | n |
|-----|-----|
| No | 789 |
| Yes | 237 |

Tree Farmer totals

| | n |
|-----|-----|
| No | 734 |
| Yes | 726 |

FUT_FIRE

Which, if any, of the following activities will likely occur on your wooded land in the next 5 years? Using prescribed fire



Landowner totals

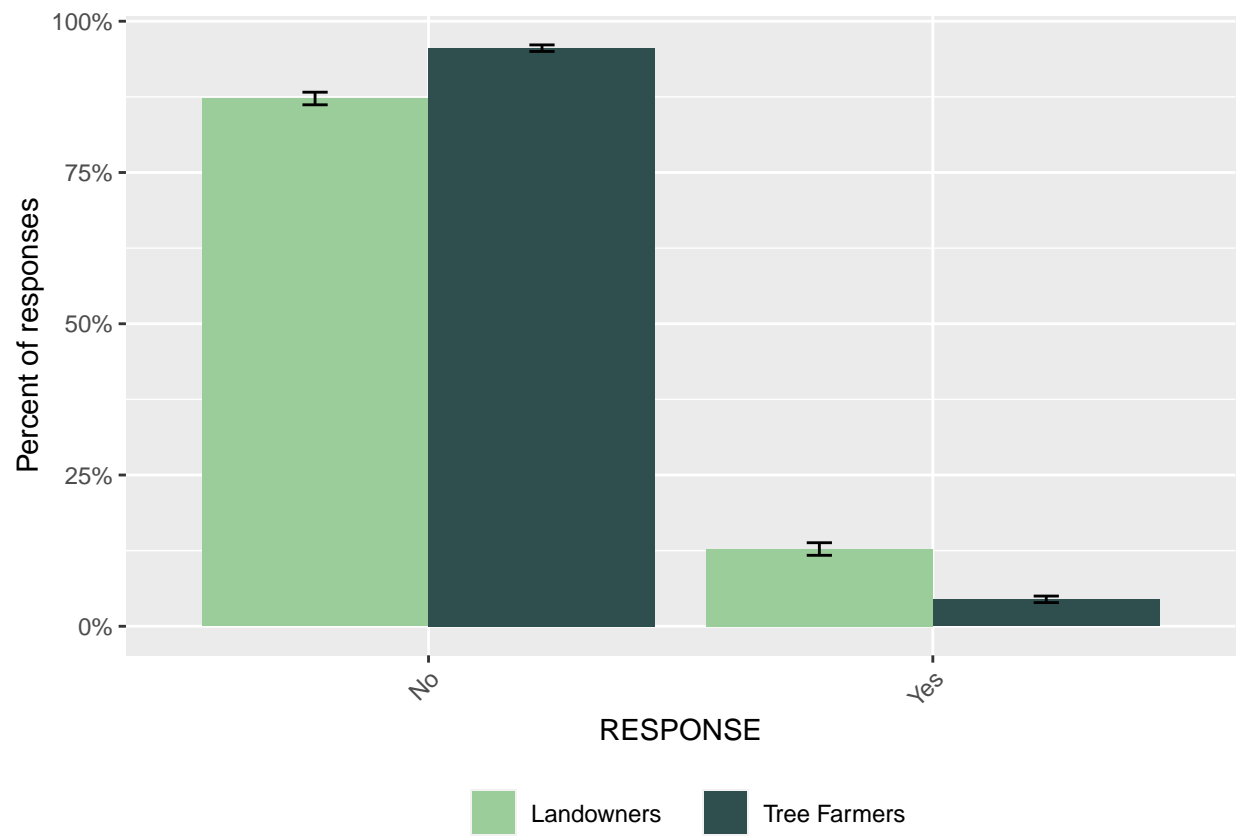
| | n |
|-----|-----|
| No | 934 |
| Yes | 92 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1065 |
| Yes | 395 |

FUT_NONE

Which, if any, of the following activities will likely occur on your wooded land in the next 5 years? None of the above



Landowner totals

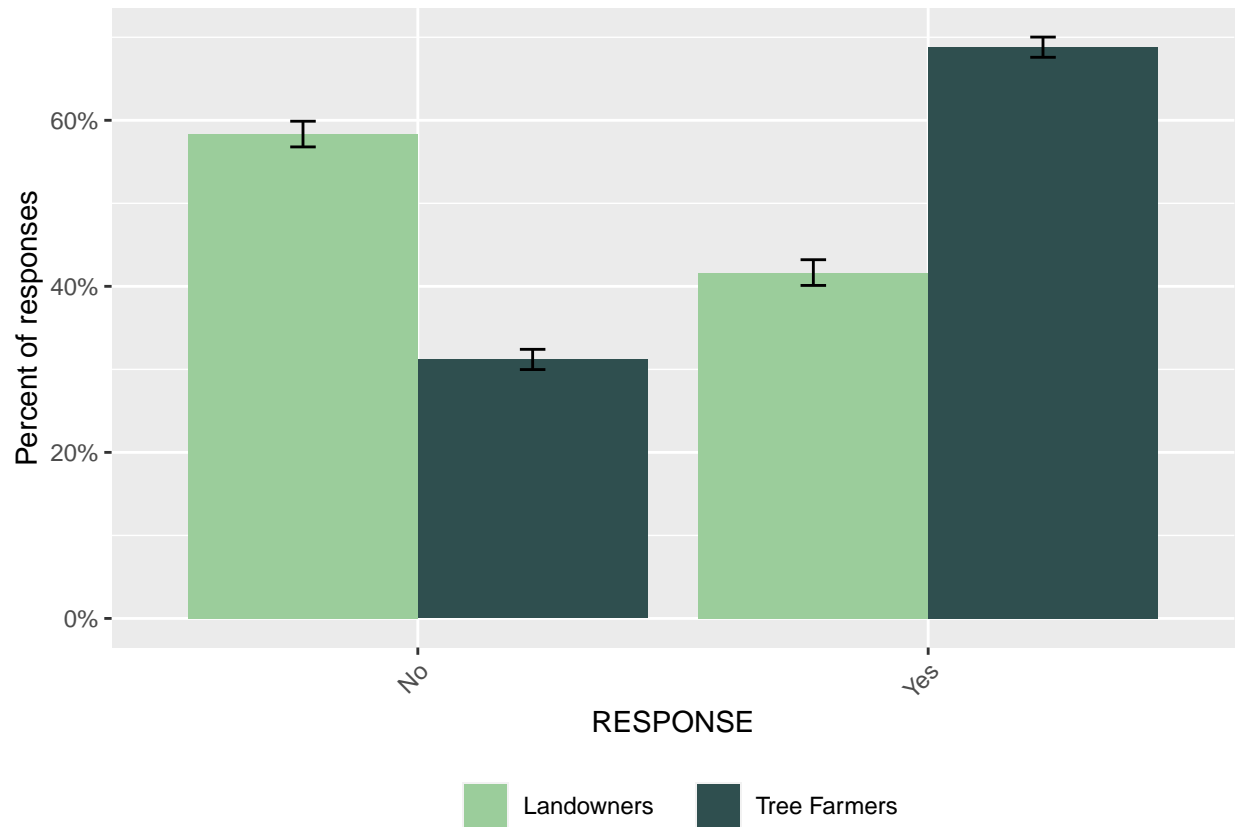
| | n |
|-----|-----|
| No | 895 |
| Yes | 131 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1395 |
| Yes | 65 |

TTM_CUT_WILD

Which, if any, of the following do you see as potential benefits from cutting trees from your wooded land for sale? Cutting trees from my wooded land for sale... Will likely improve wildlife habitat



Landowner totals

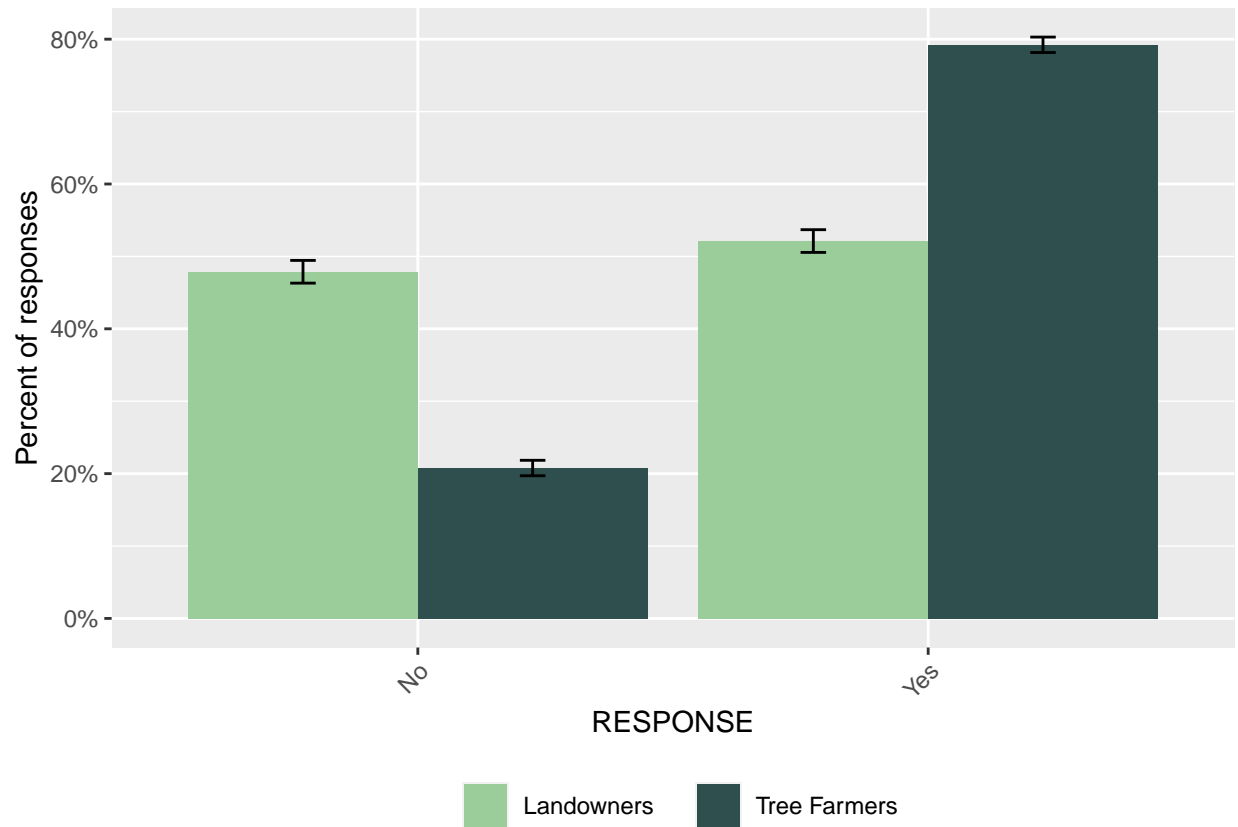
| | n |
|-----|-----|
| No | 591 |
| Yes | 422 |

Tree Farmer totals

| | n |
|-----|-----|
| No | 452 |
| Yes | 997 |

TTM_CUT_TIMBER

Which, if any, of the following do you see as potential benefits from cutting trees from your wooded land for sale? Cutting trees from my wooded land for sale... Will likely increase the future timber quality



Landowner totals

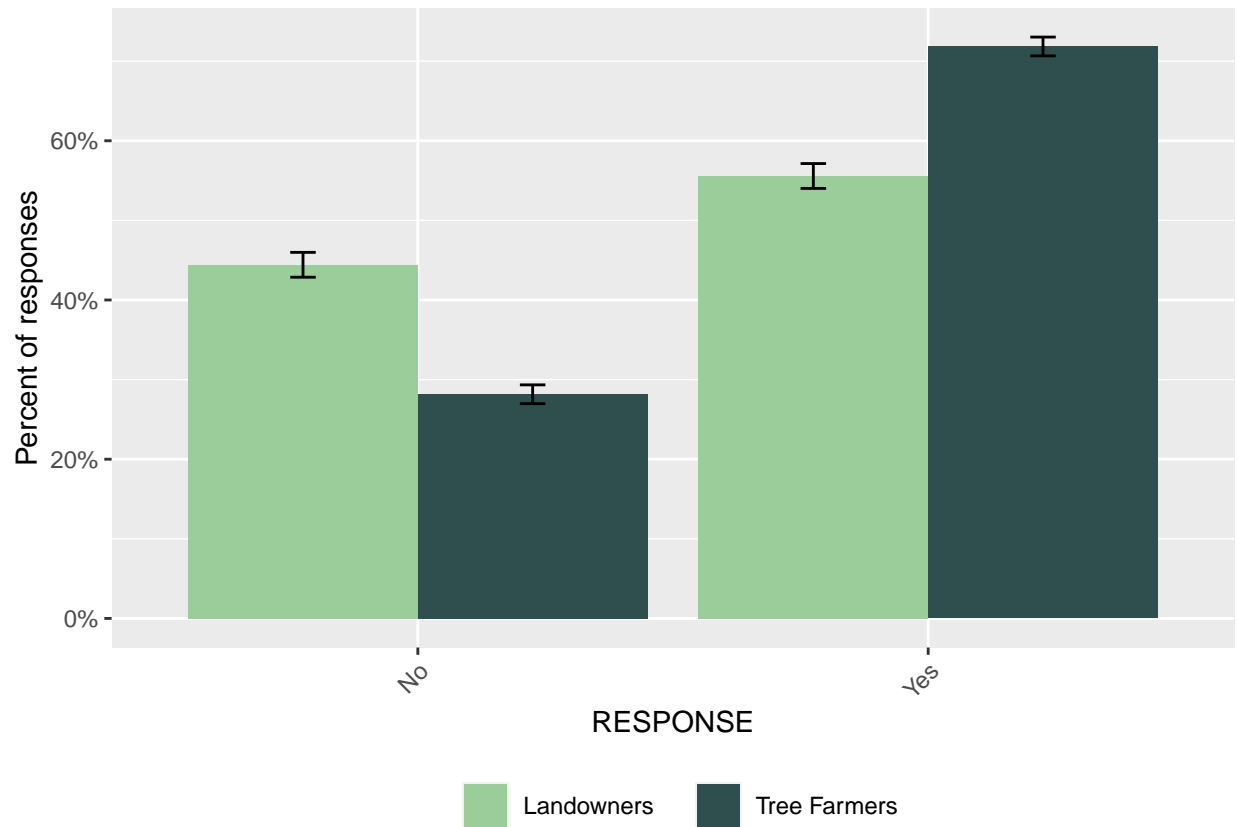
| | n |
|-----|-----|
| No | 485 |
| Yes | 528 |

Tree Farmer totals

| | n |
|-----|------|
| No | 301 |
| Yes | 1148 |

TTM_CUT_MONEY

Which, if any, of the following do you see as potential benefits from cutting trees from your wooded land for sale? Cutting trees from my wooded land for sale... Will likely earn money for me



Landowner totals

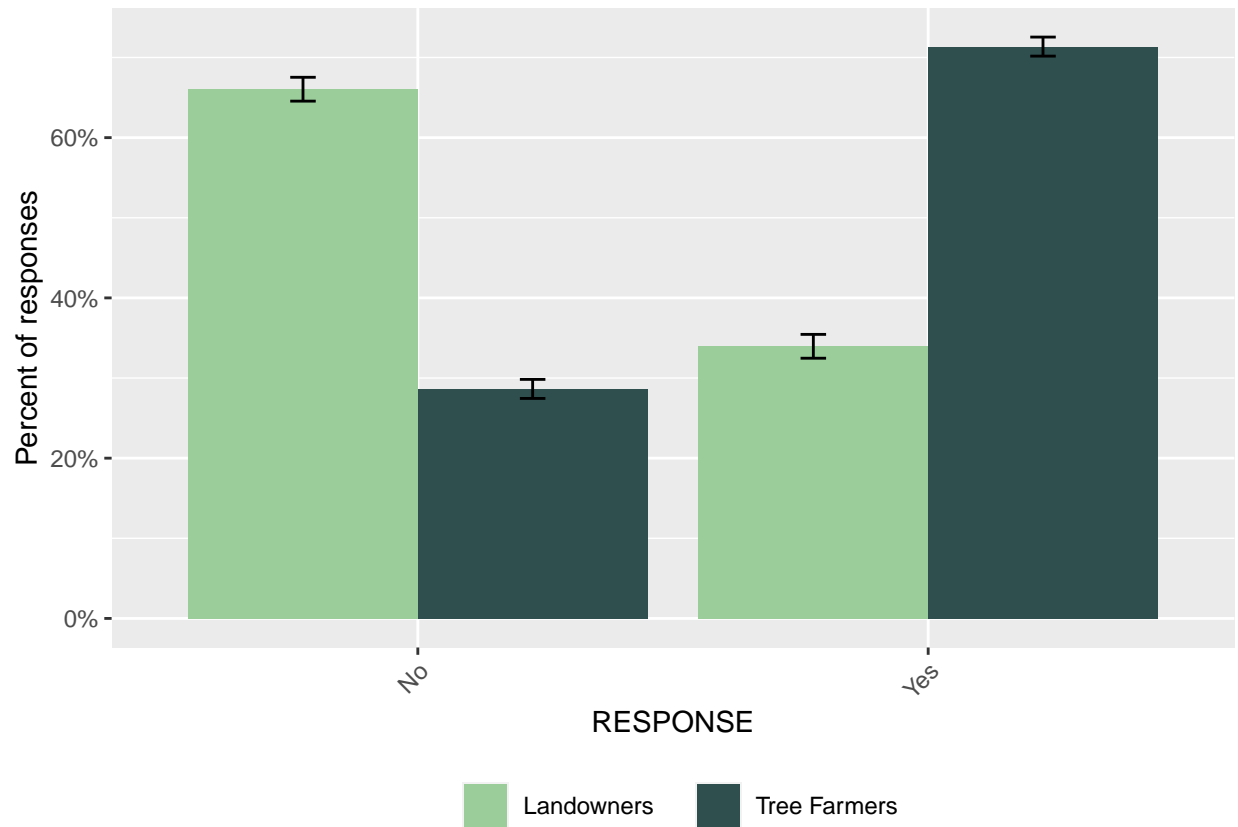
| | n |
|-----|-----|
| No | 450 |
| Yes | 563 |

Tree Farmer totals

| | n |
|-----|------|
| No | 408 |
| Yes | 1041 |

TTM_CUT_GOALS

Which, if any, of the following do you see as potential benefits from cutting trees from your wooded land for sale? Cutting trees from my wooded land for sale... Will likely further my goals for my wooded land



Landowner totals

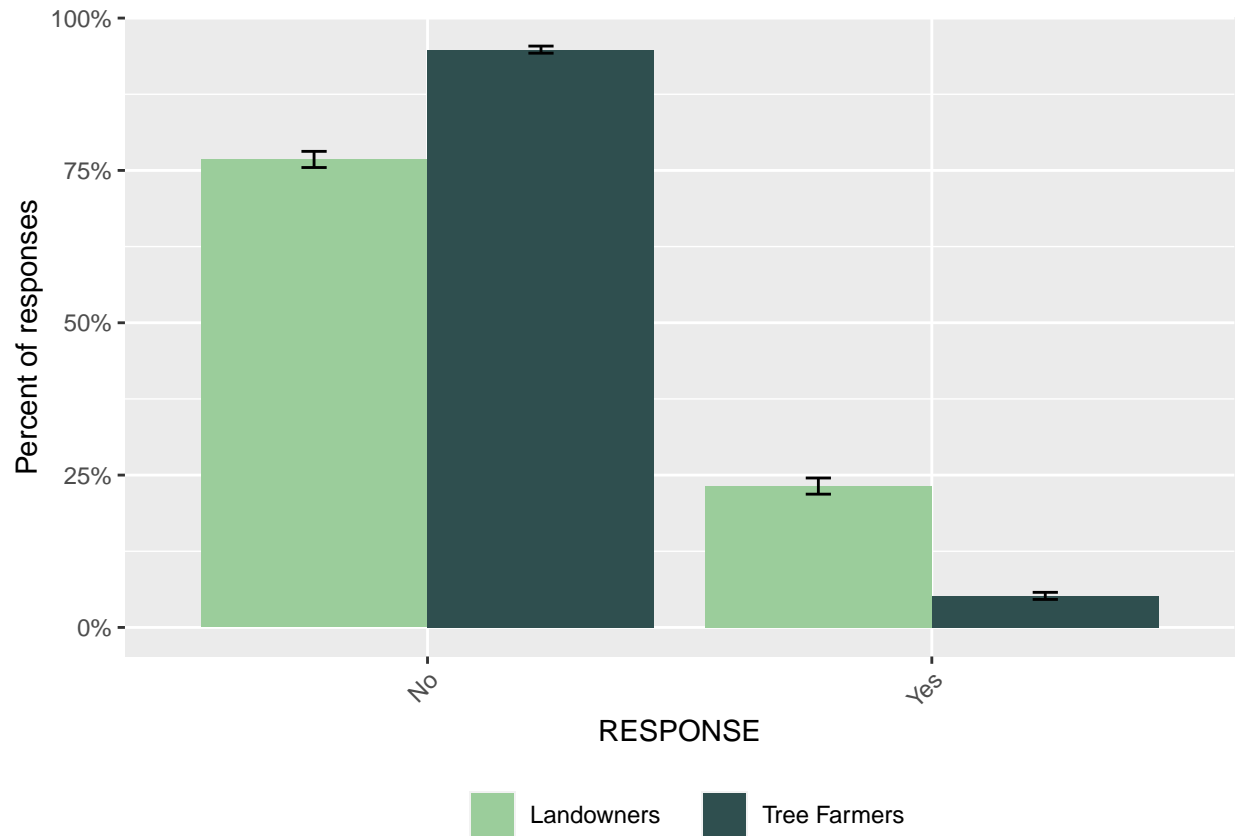
| | n |
|-----|-----|
| No | 669 |
| Yes | 344 |

Tree Farmer totals

| | n |
|-----|------|
| No | 415 |
| Yes | 1034 |

TTM_CUT_NOBEN

Which, if any, of the following do you see as potential benefits from cutting trees from your wooded land for sale? Cutting trees from my wooded land for sale... None of the above



Landowner totals

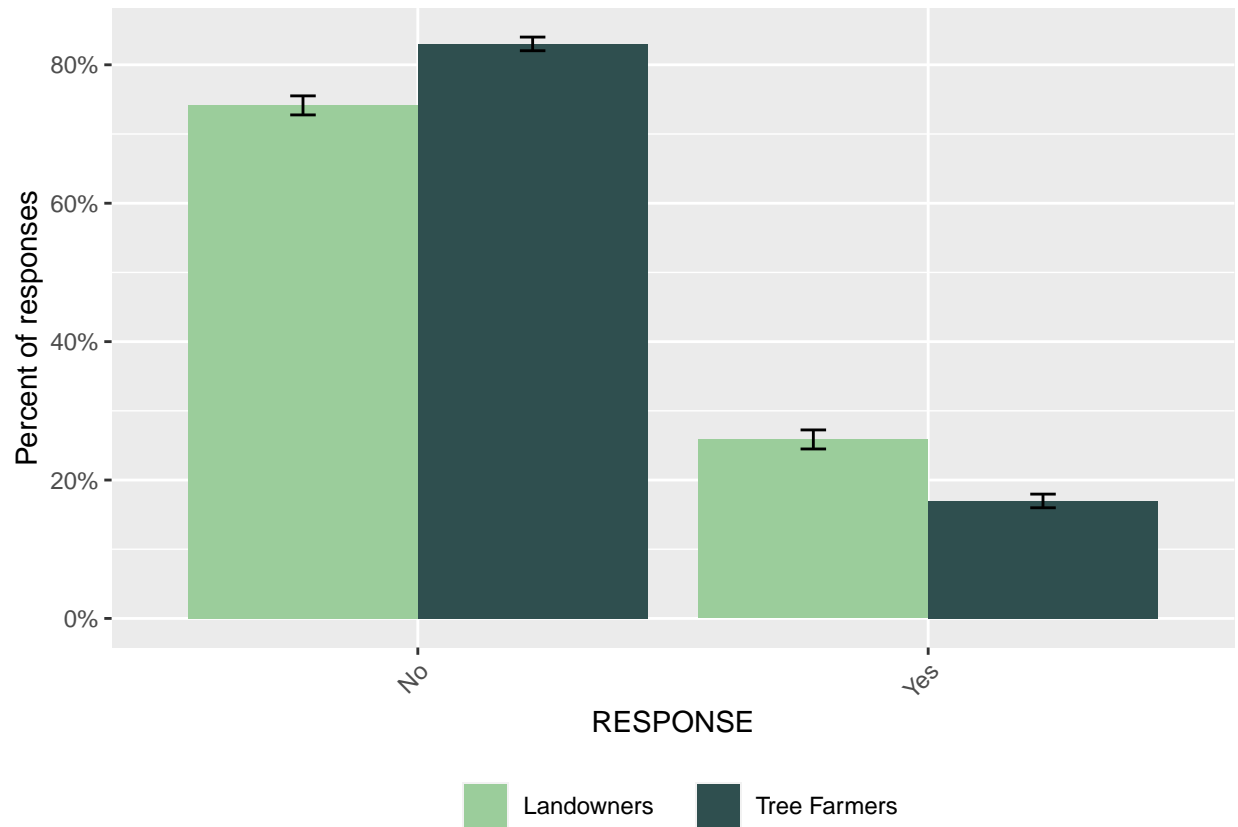
| | n |
|-----|-----|
| No | 778 |
| Yes | 235 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1374 |
| Yes | 75 |

TTM_CUT_DAMAGE

Which, if any, of the following do you see as potential challenges to cutting trees from your wooded land for sale? Cutting trees for sale will likely damage my wooded land



Landowner totals

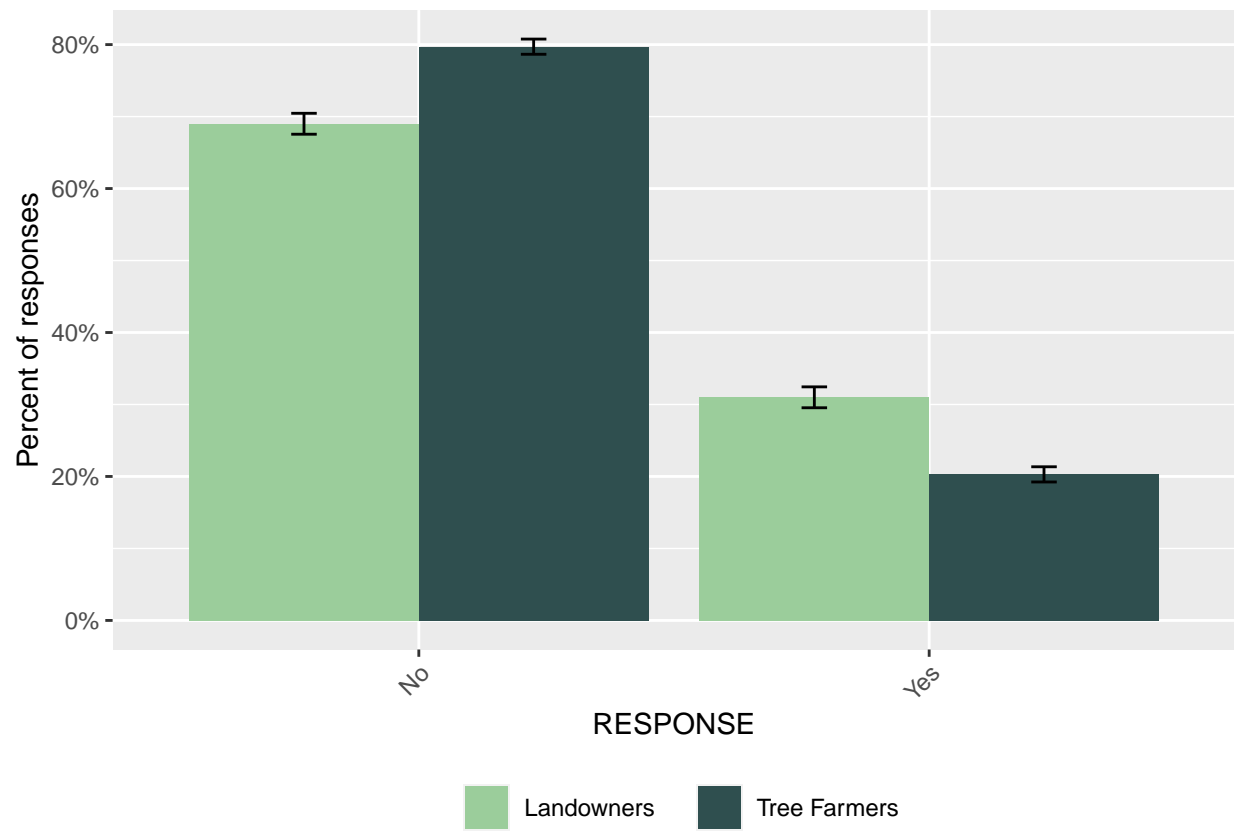
| | n |
|-----|-----|
| No | 751 |
| Yes | 262 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1203 |
| Yes | 246 |

TTM_CUT_UGLY

Which, if any, of the following do you see as potential challenges to cutting trees from your wooded land for sale? Cutting trees for sale will likely look ugly



Landowner totals

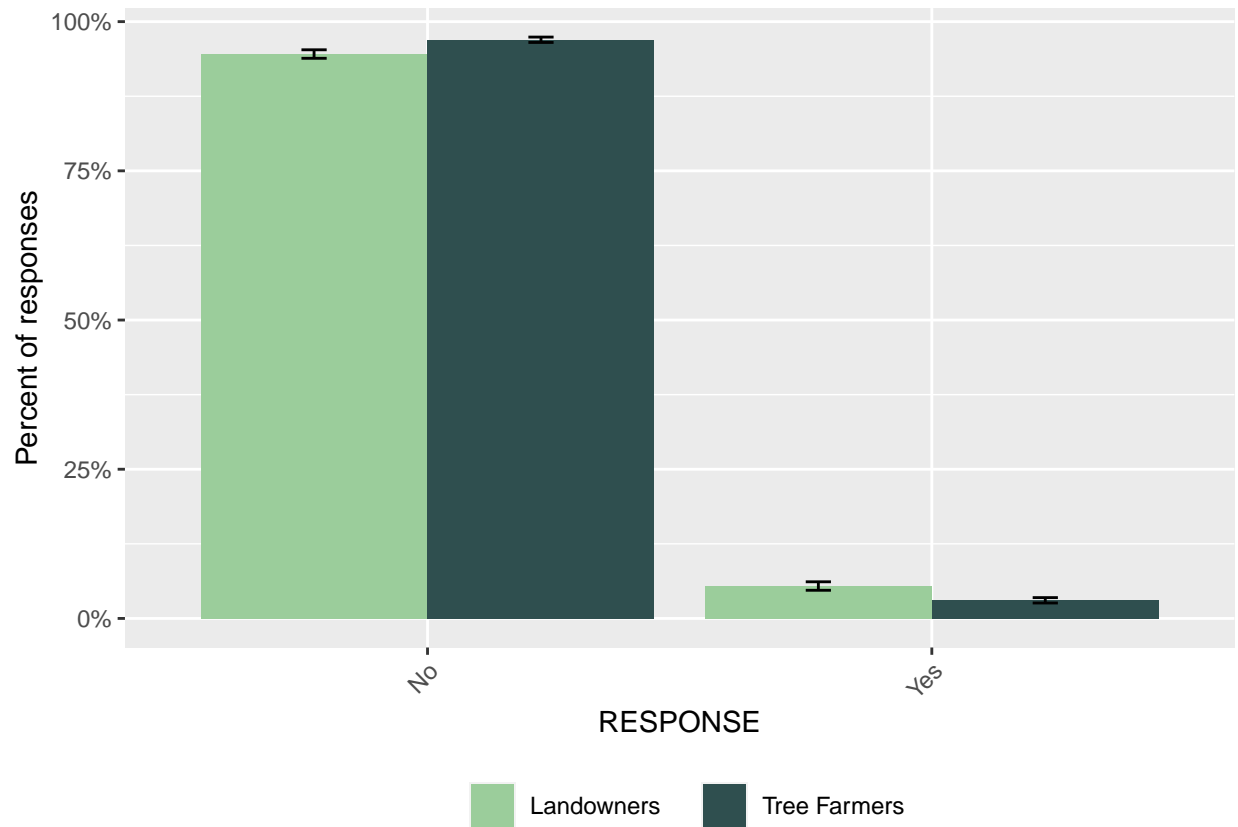
| | n |
|-----|-----|
| No | 699 |
| Yes | 314 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1155 |
| Yes | 294 |

TTM_CUT_NEIGH

Which, if any, of the following do you see as potential challenges to cutting trees from your wooded land for sale? My neighbors would dislike it if I cut trees for sale



Landowner totals

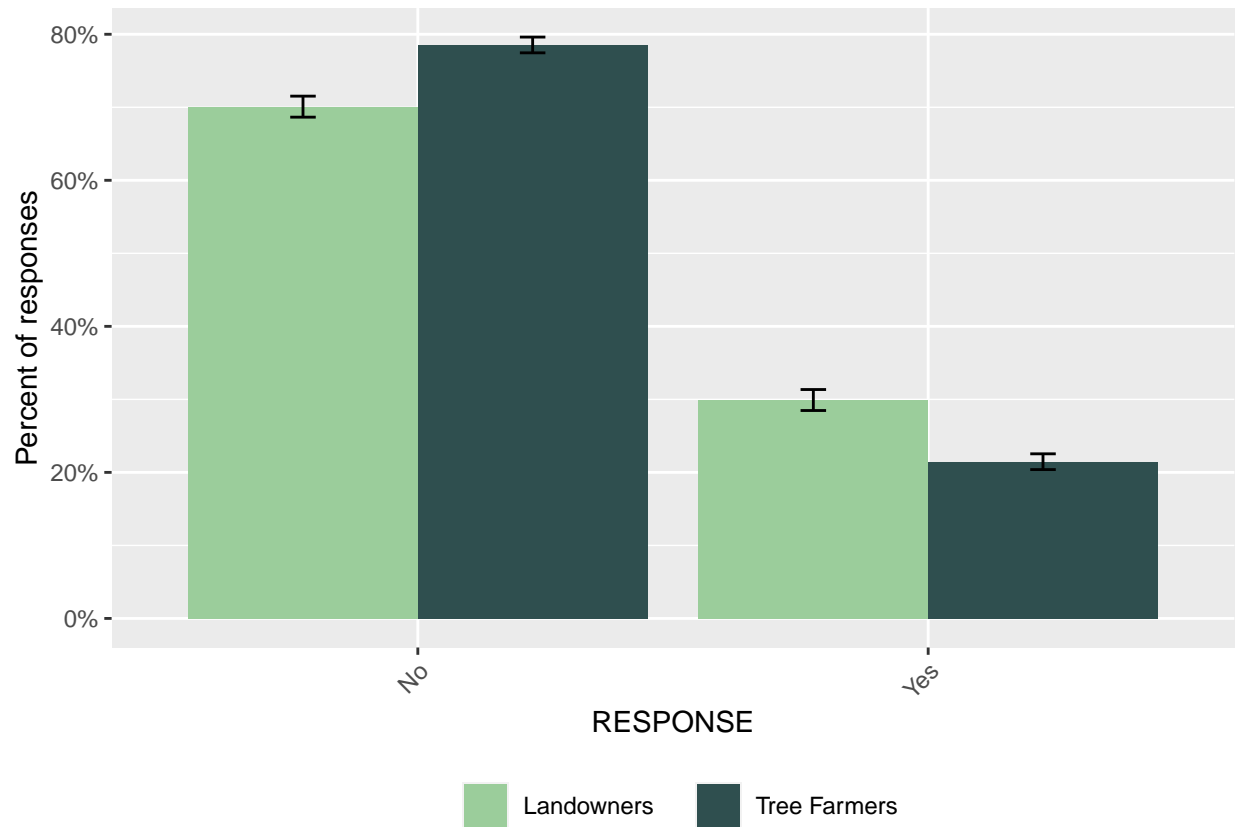
| | n |
|-----|-----|
| No | 958 |
| Yes | 55 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1405 |
| Yes | 44 |

TTM_CUT_LOGGER

Which, if any, of the following do you see as potential challenges to cutting trees from your wooded land for sale? It is difficult to find a logger I trust



Landowner totals

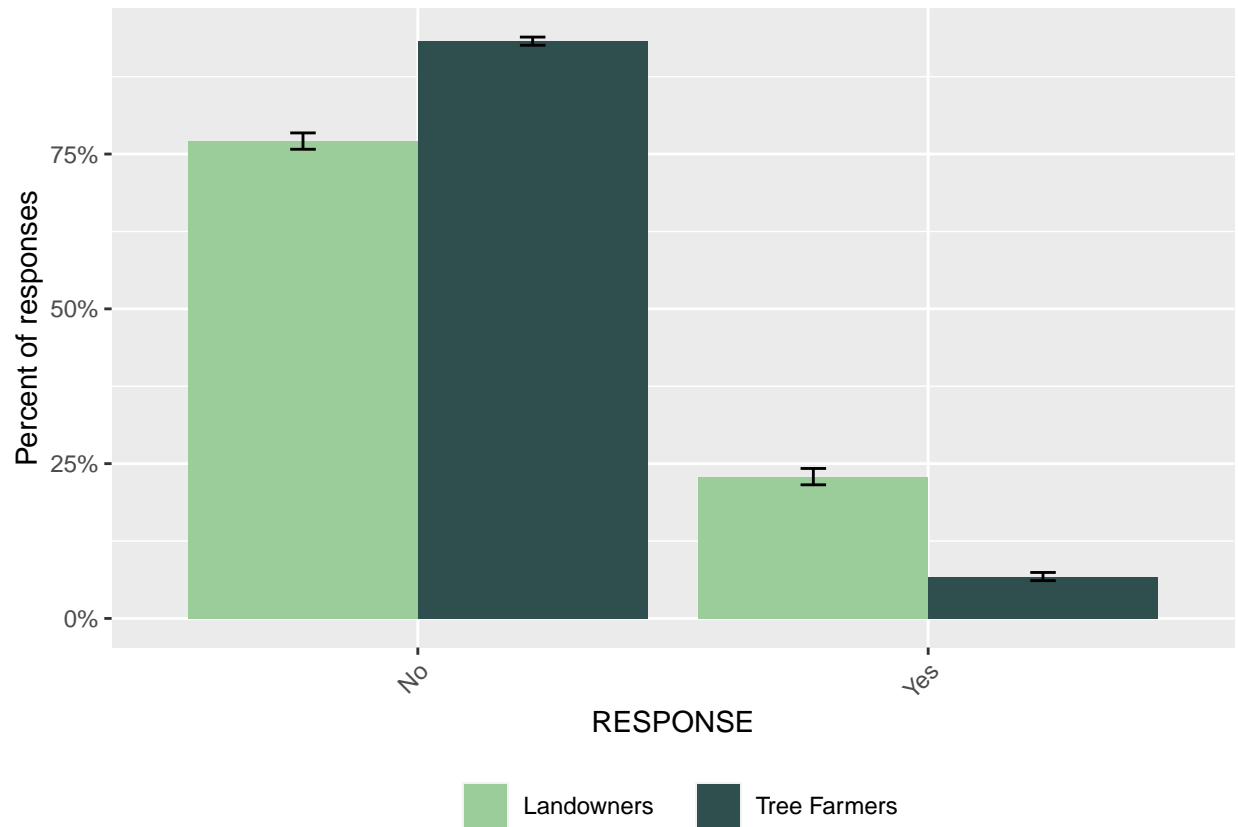
| | n |
|-----|-----|
| No | 710 |
| Yes | 303 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1138 |
| Yes | 311 |

TTM_CUT_INFO

Which, if any, of the following do you see as potential challenges to cutting trees from your wooded land for sale? I don't have enough information about cutting trees for sale



Landowner totals

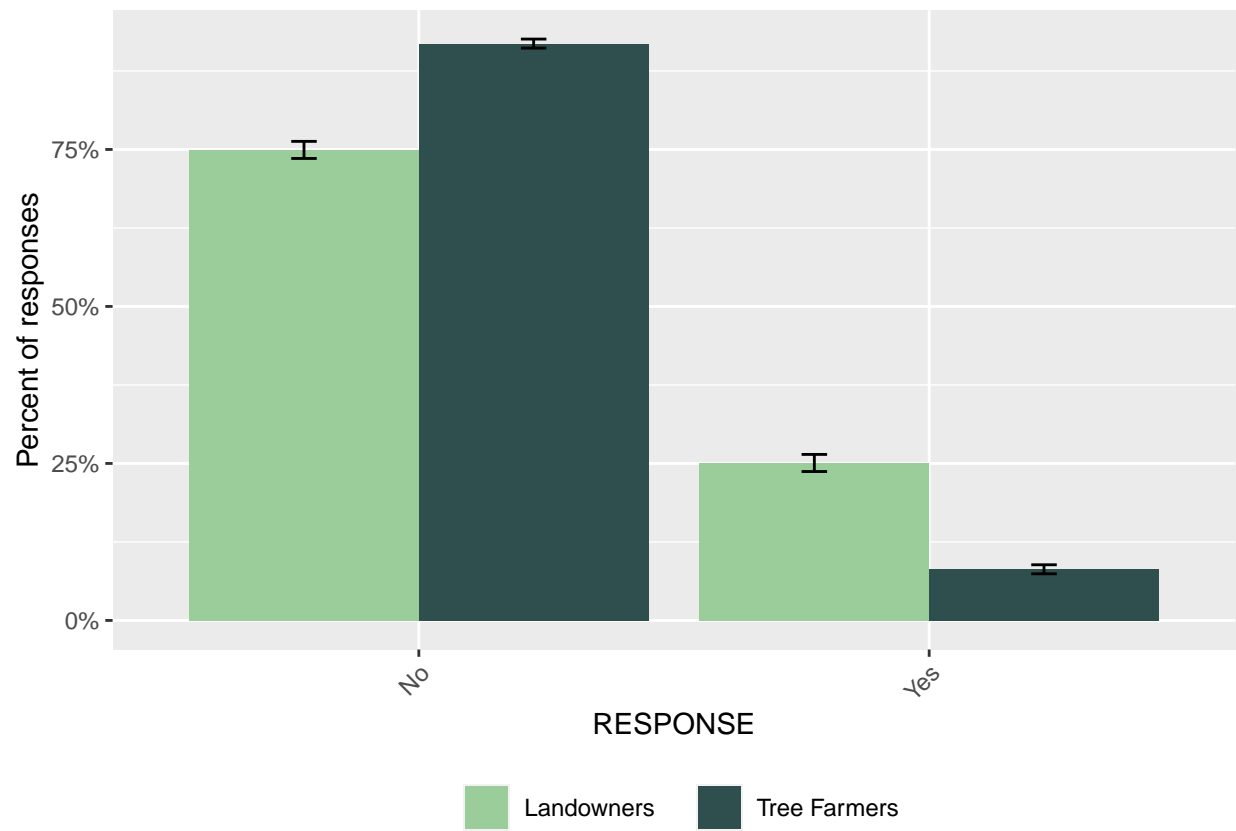
| | n |
|-----|-----|
| No | 781 |
| Yes | 232 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1351 |
| Yes | 98 |

TTM_CUT_NO_GOAL

Which, if any, of the following do you see as potential challenges to cutting trees from your wooded land for sale? Cutting trees does not further my goals for my wooded land



Landowner totals

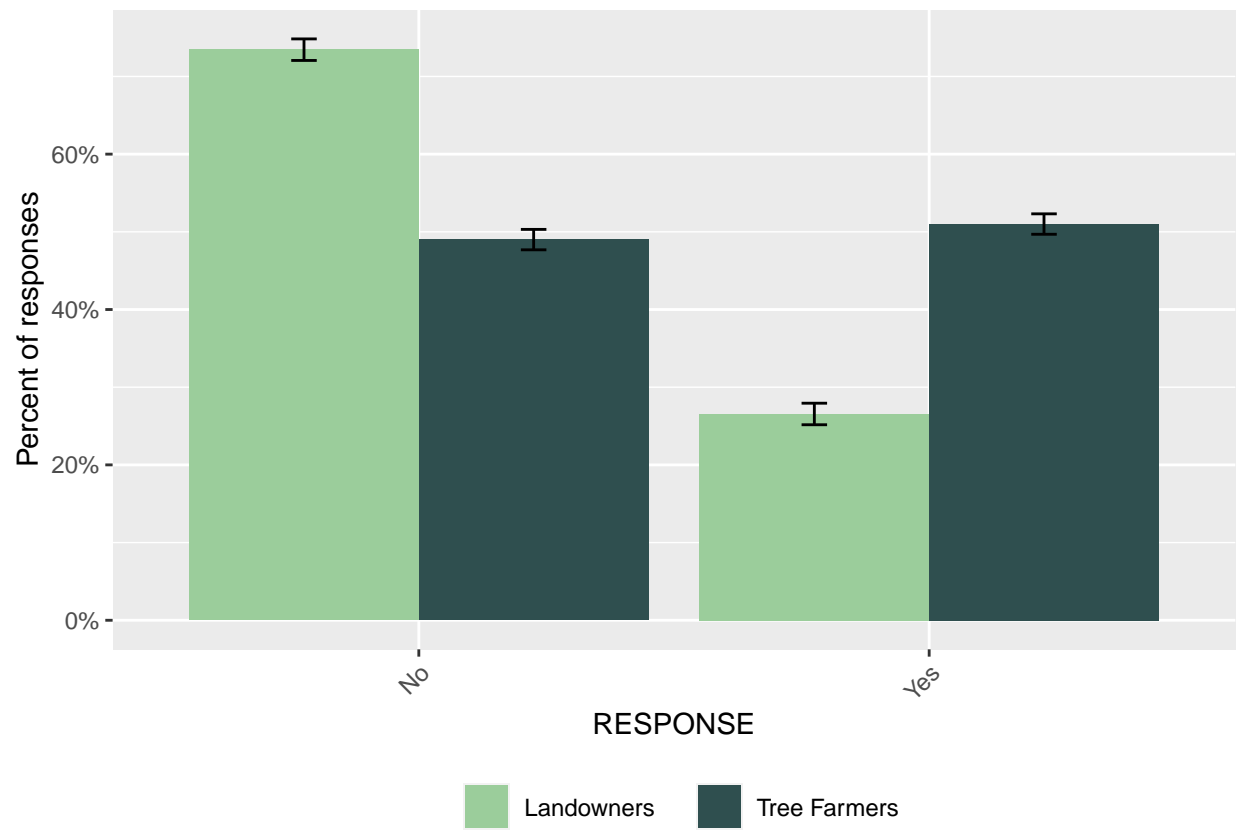
| | n |
|-----|-----|
| No | 759 |
| Yes | 254 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1331 |
| Yes | 118 |

TTM_CUT_NOCHALL

Which, if any, of the following do you see as potential challenges to cutting trees from your wooded land for sale? None of the above



Landowner totals

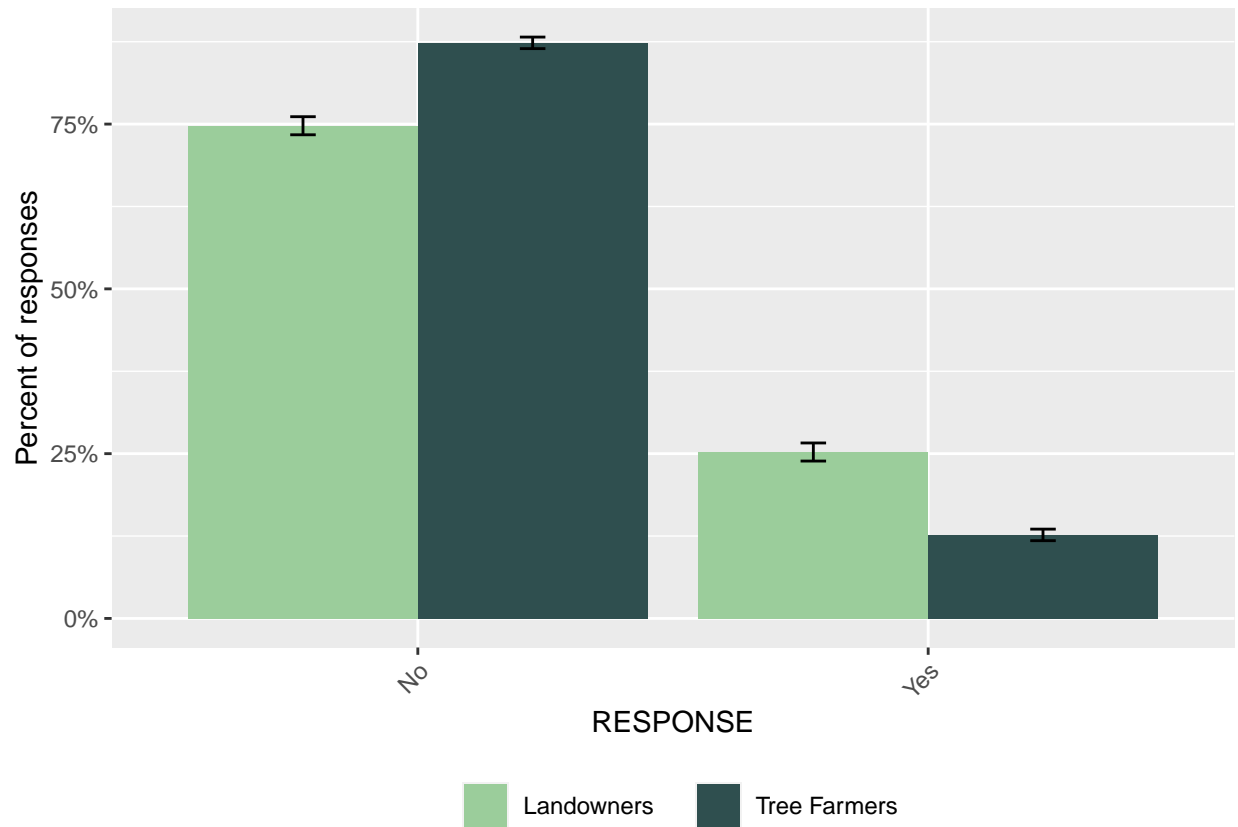
| | n |
|-----|-----|
| No | 744 |
| Yes | 269 |

Tree Farmer totals

| | n |
|-----|-----|
| No | 710 |
| Yes | 739 |

HARVEST_NOCUT

Which of these would you be willing to accept on some part of your land, with the understanding that new trees will grow back after the cutting? No cutting



Landowner totals

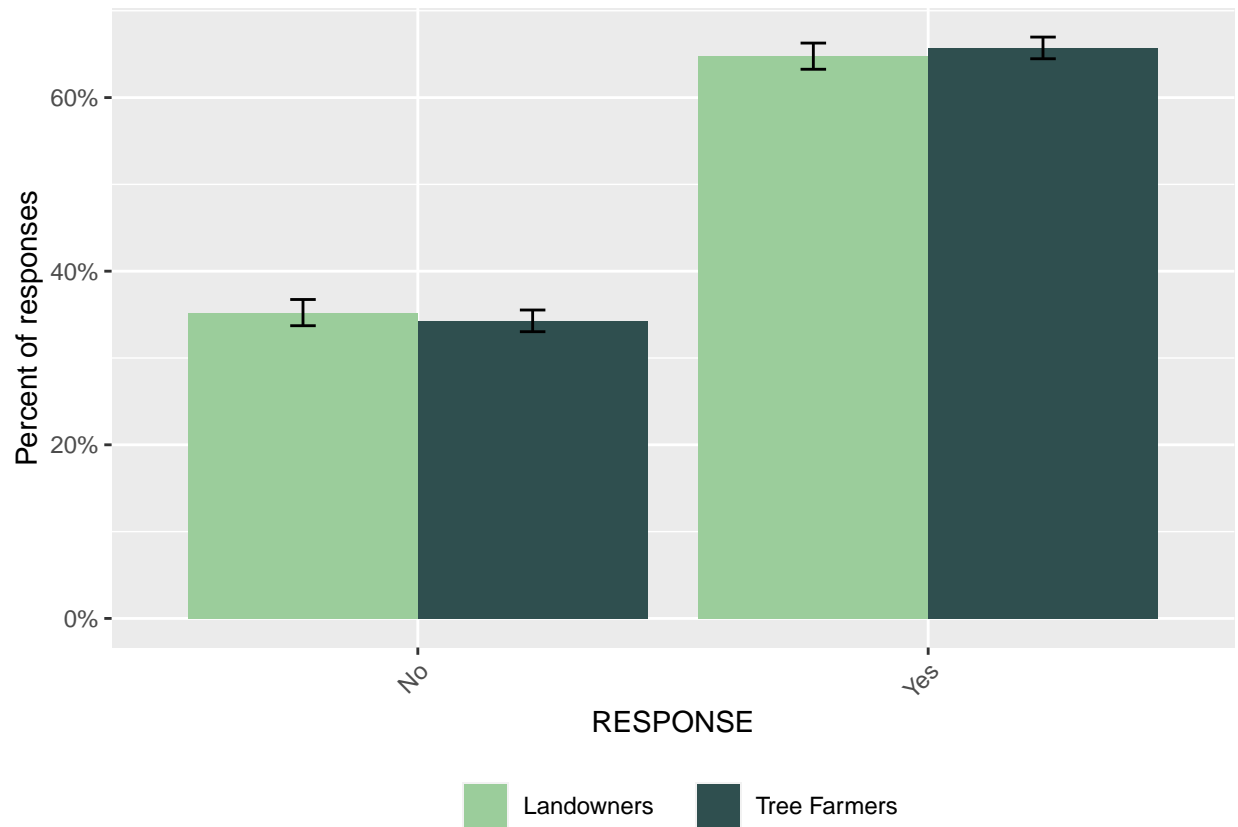
| | n |
|-----|-----|
| No | 749 |
| Yes | 253 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1261 |
| Yes | 183 |

HARVEST_FEW

Which of these would you be willing to accept on some part of your land, with the understanding that new trees will grow back after the cutting? Cutting a few trees per acre



Landowner totals

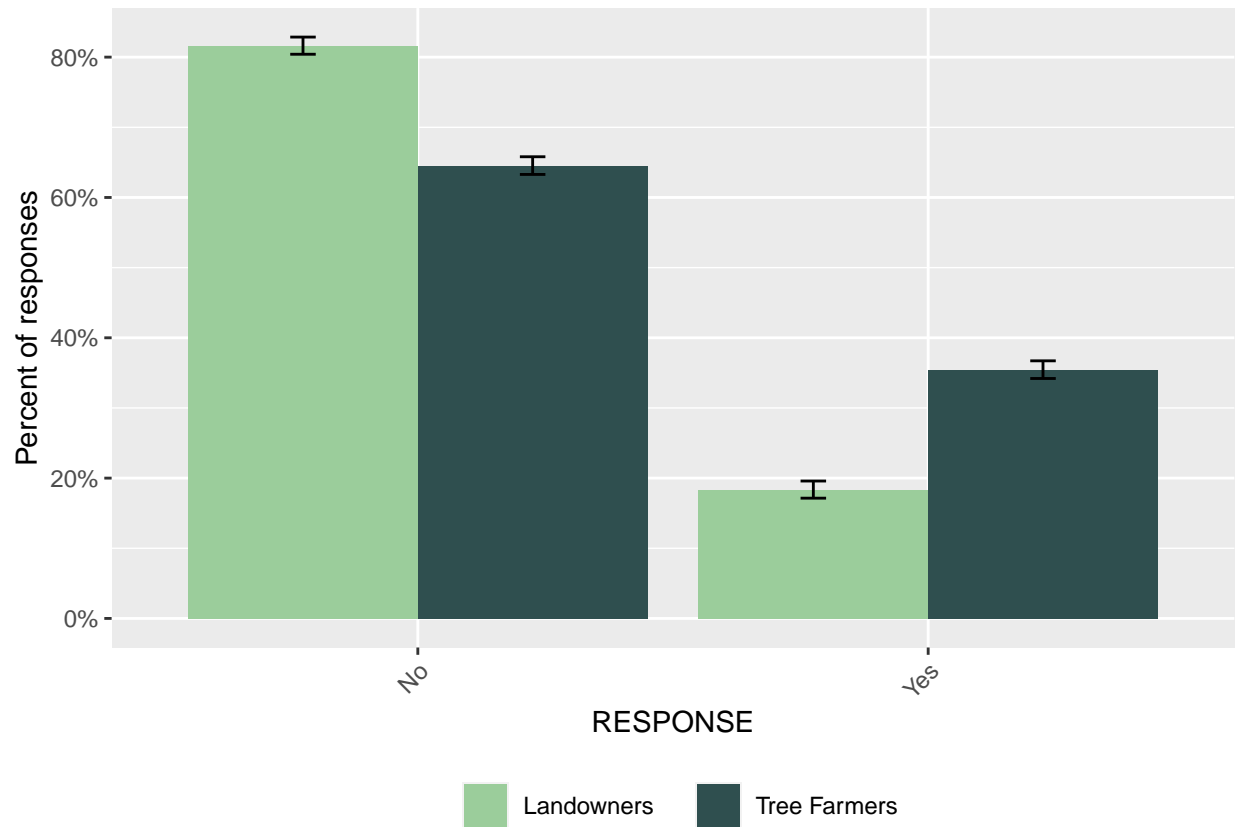
| | n |
|-----|-----|
| No | 353 |
| Yes | 649 |

Tree Farmer totals

| | n |
|-----|-----|
| No | 495 |
| Yes | 949 |

HARVEST_MANY

Which of these would you be willing to accept on some part of your land, with the understanding that new trees will grow back after the cutting? Cutting many trees per acre



Landowner totals

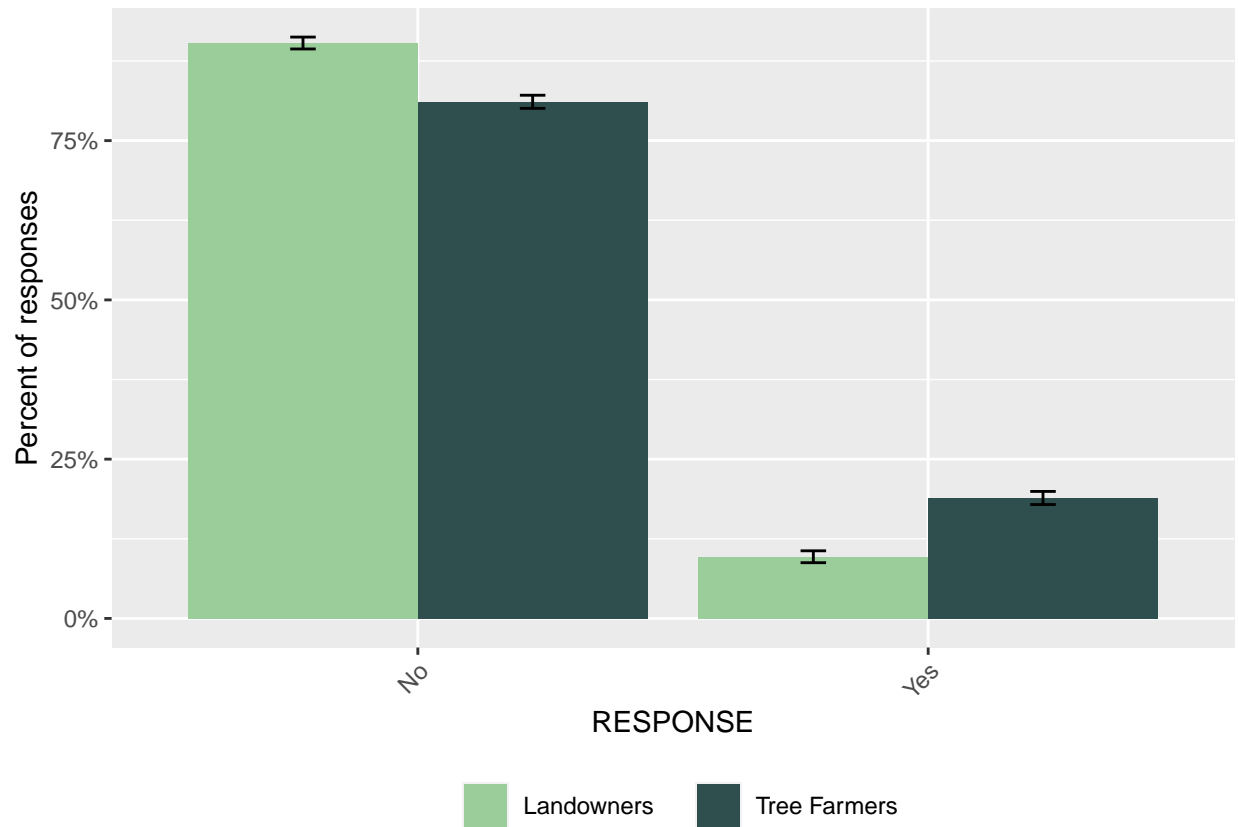
| | n |
|-----|-----|
| No | 818 |
| Yes | 184 |

Tree Farmer totals

| | n |
|-----|-----|
| No | 932 |
| Yes | 512 |

HARVEST_CLUSTER

Which of these would you be willing to accept on some part of your land, with the understanding that new trees will grow back after the cutting? Cutting many trees per acre, clustered together



Landowner totals

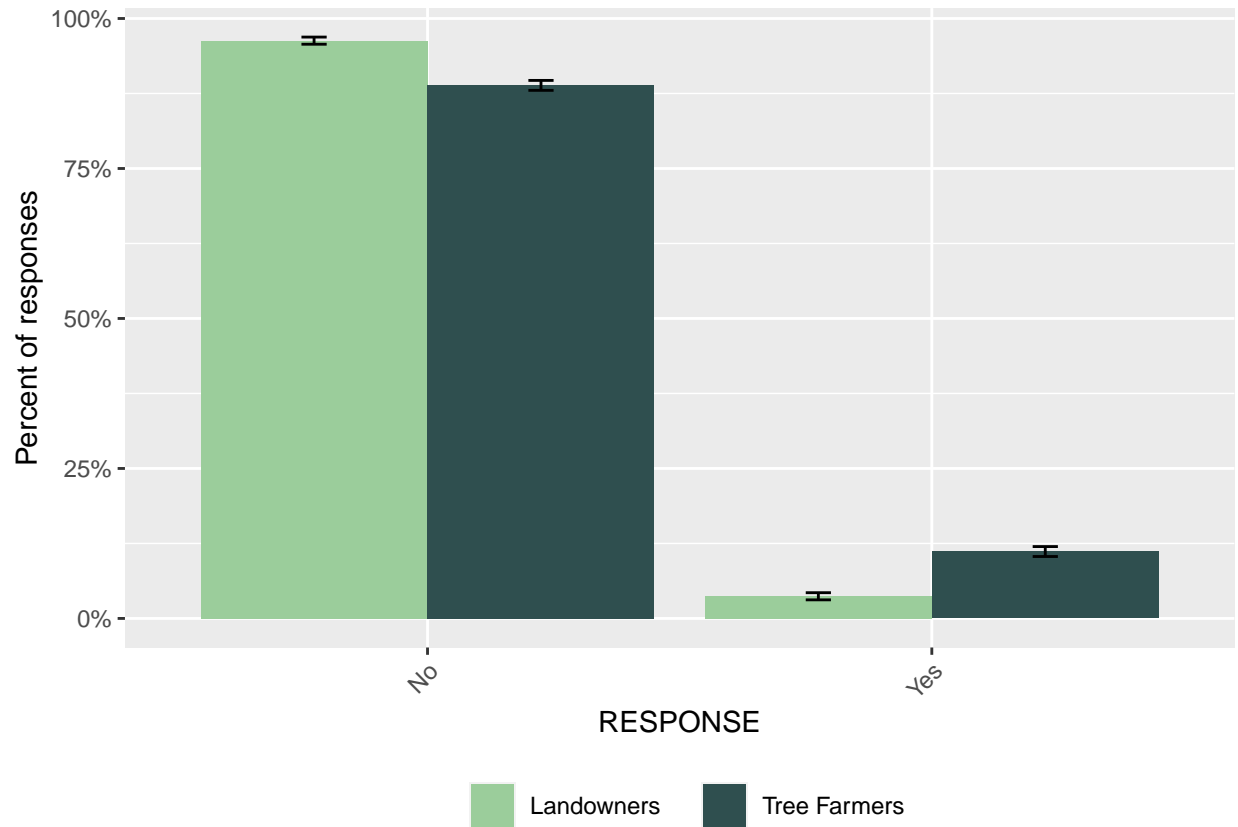
| | n |
|-----|-----|
| No | 905 |
| Yes | 97 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1171 |
| Yes | 273 |

HARVEST_MOST

Which of these would you be willing to accept on some part of your land, with the understanding that new trees will grow back after the cutting? Cutting most trees per acre



Landowner totals

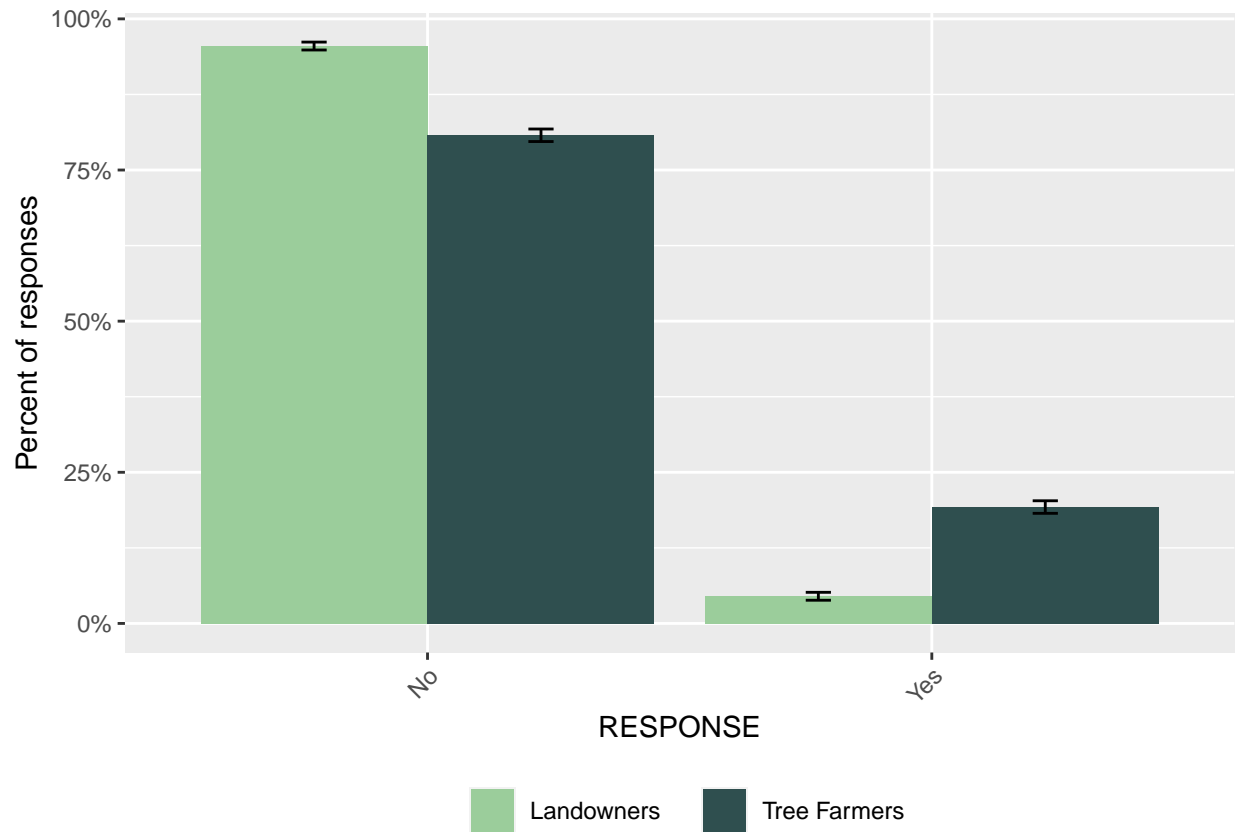
| | n |
|-----|-----|
| No | 965 |
| Yes | 37 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1283 |
| Yes | 161 |

HARVEST_ALL

Which of these would you be willing to accept on some part of your land, with the understanding that new trees will grow back after the cutting? Cutting all trees per acre



Landowner totals

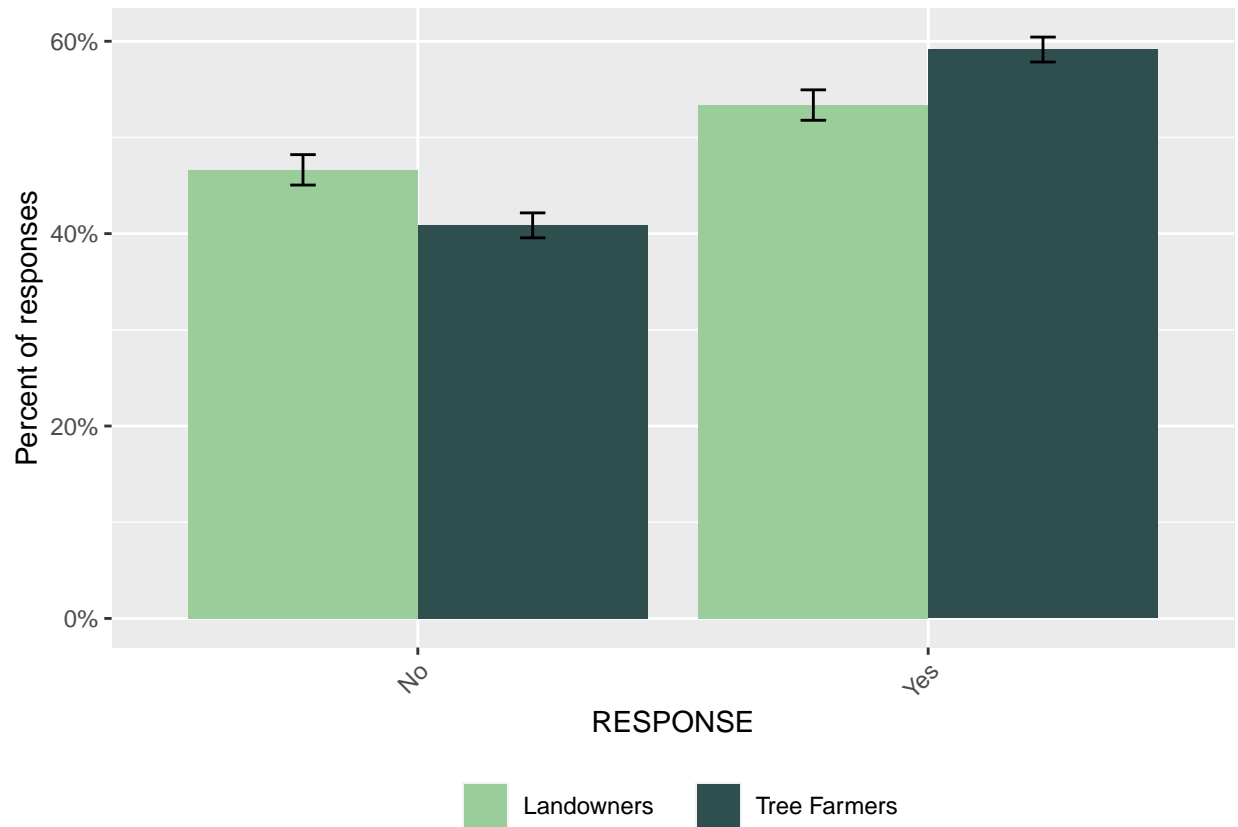
| | n |
|-----|-----|
| No | 957 |
| Yes | 45 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1166 |
| Yes | 278 |

TTM_PLANT_WILD

Which, if any, of the following do you see as potential benefits from planting trees on your wooded land?
Planting trees on my wooded land... Will likely improve wildlife habitat



Landowner totals

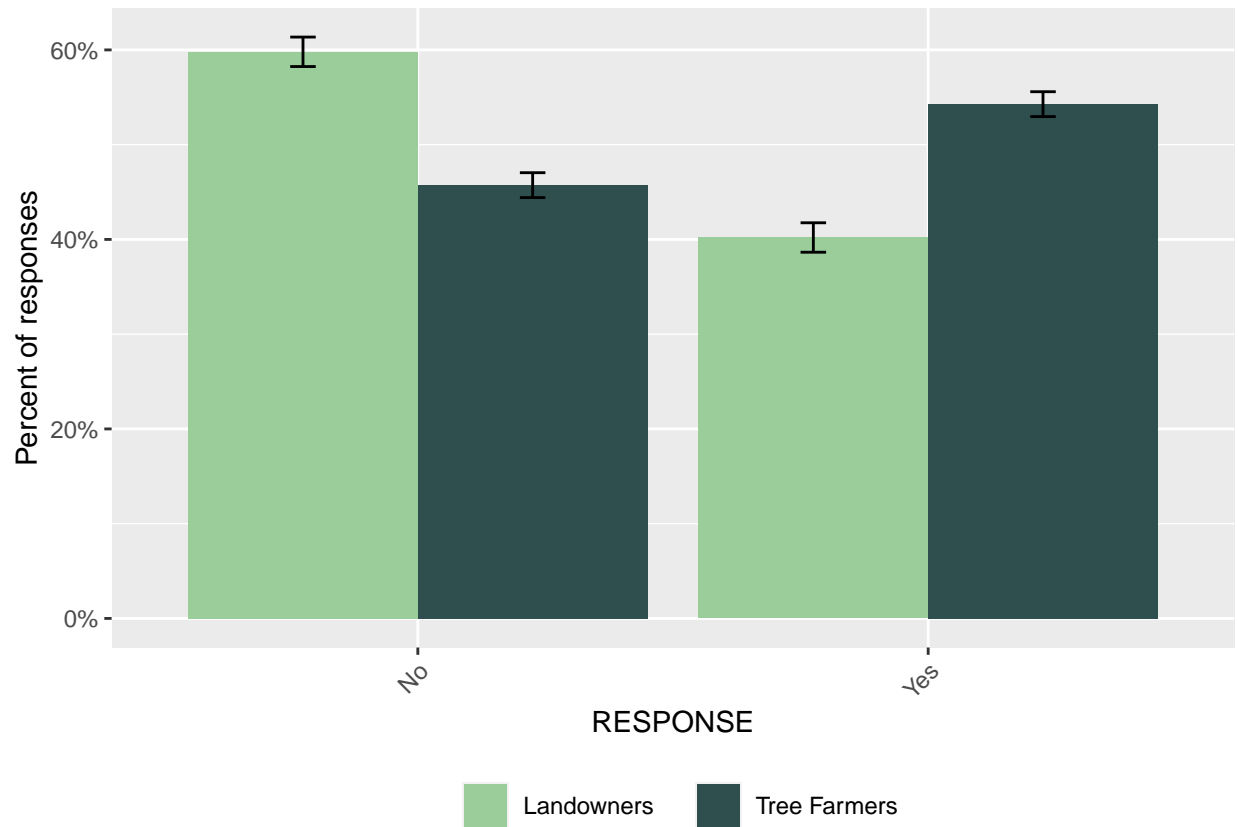
| | n |
|-----|-----|
| No | 464 |
| Yes | 531 |

Tree Farmer totals

| | n |
|-----|-----|
| No | 588 |
| Yes | 851 |

TTM_PLANT_TIMBER

Which, if any, of the following do you see as potential benefits from planting trees on your wooded land?
Planting trees on my wooded land... Will likely increase future timber quality



Landowner totals

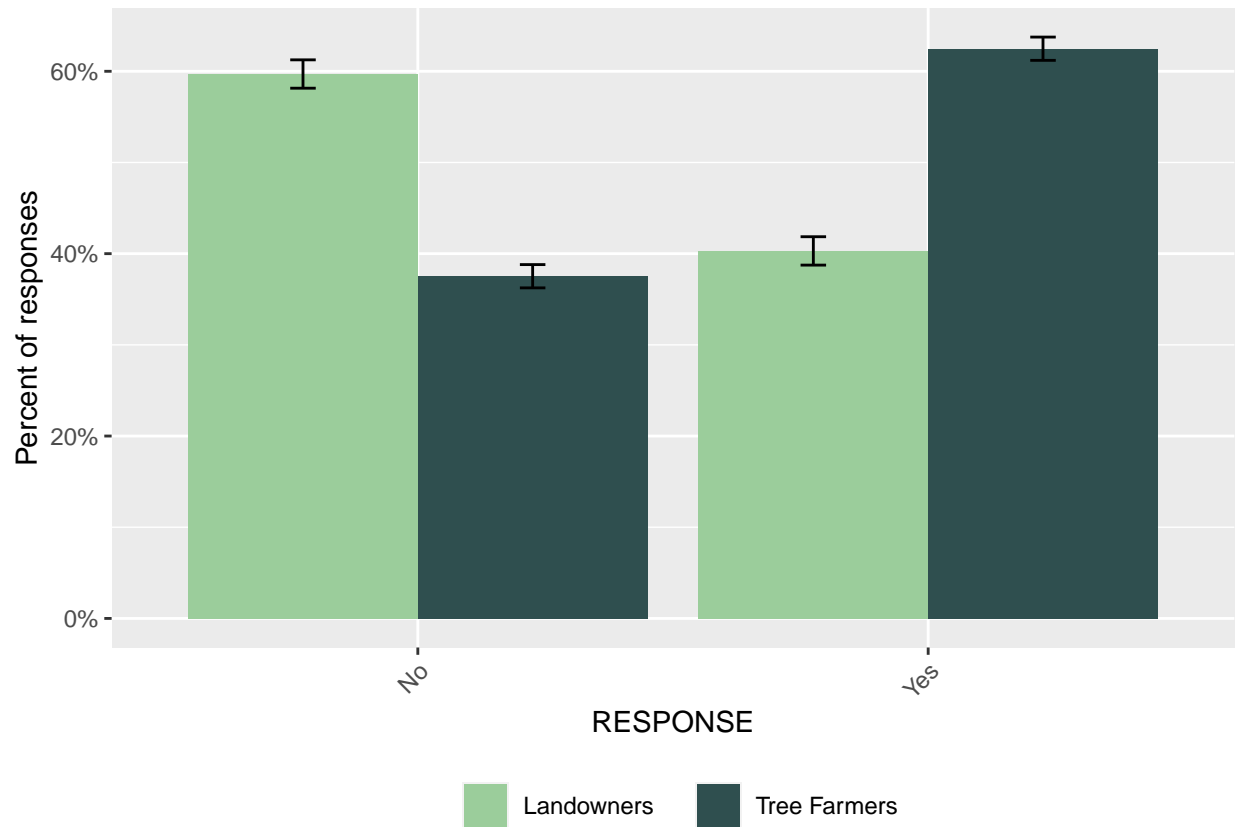
| | n |
|-----|-----|
| No | 595 |
| Yes | 400 |

Tree Farmer totals

| | n |
|-----|-----|
| No | 658 |
| Yes | 781 |

TTM_PLANT_GOALS

Which, if any, of the following do you see as potential benefits from planting trees on your wooded land?
Planting trees on my wooded land... Will likely further my goals for my wooded land



Landowner totals

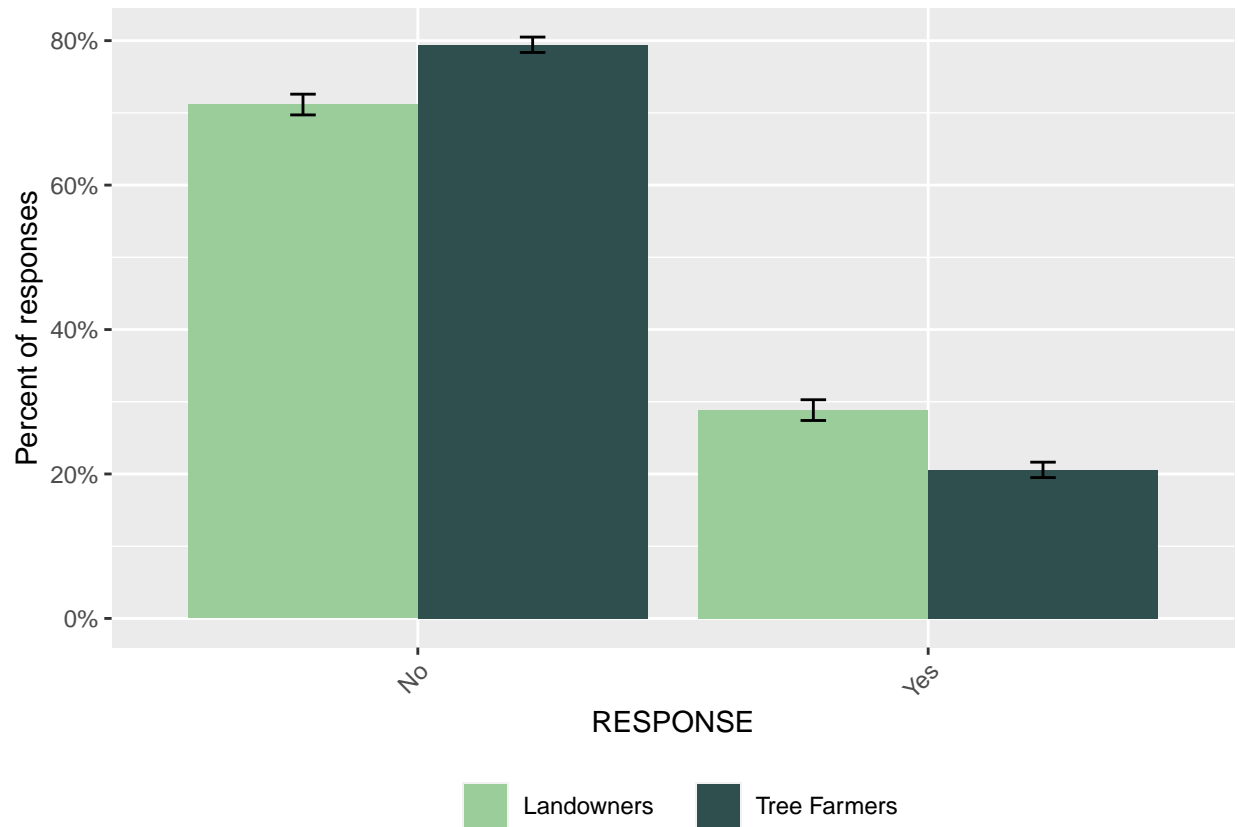
| | n |
|-----|-----|
| No | 594 |
| Yes | 401 |

Tree Farmer totals

| | n |
|-----|-----|
| No | 540 |
| Yes | 899 |

TTM_PLANT_NOBEN

Which, if any, of the following do you see as potential benefits from planting trees on your wooded land?
Planting trees on my wooded land... None of the above



Landowner totals

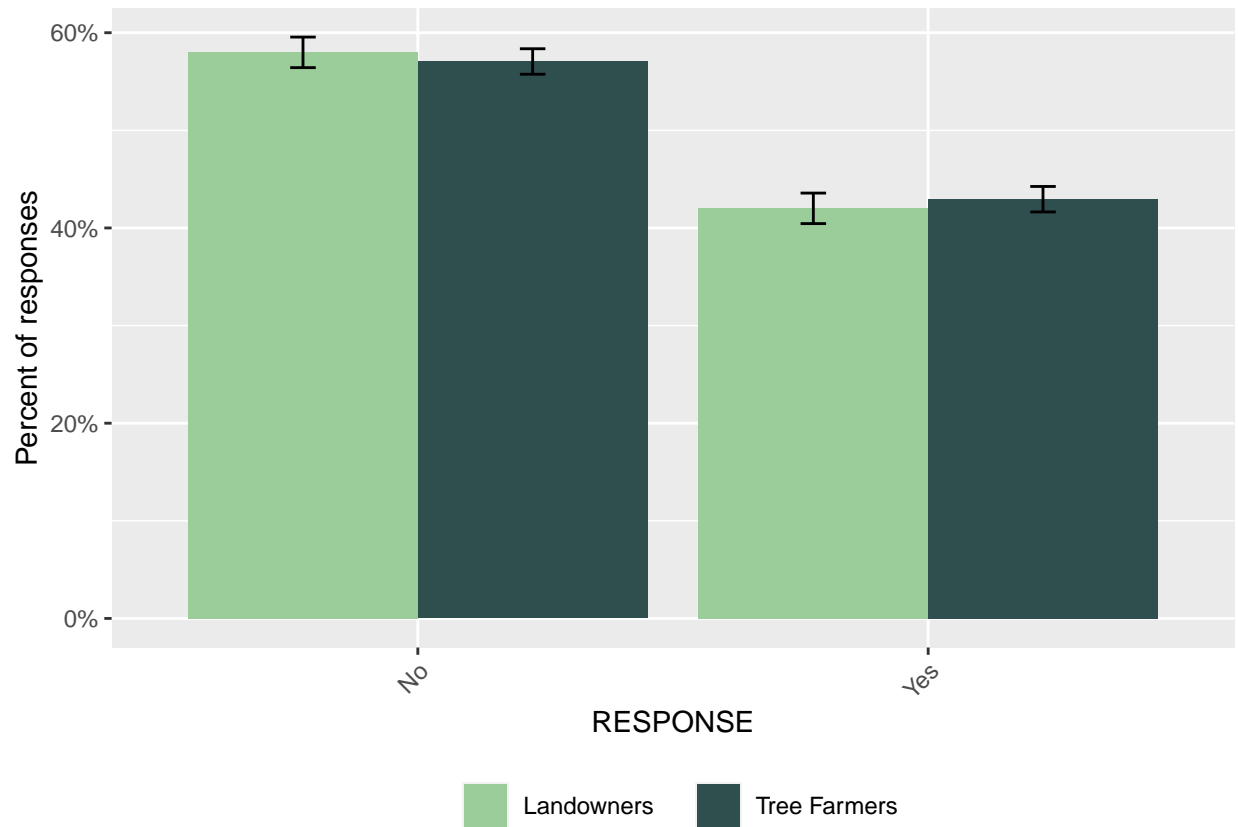
| | n |
|-----|-----|
| No | 708 |
| Yes | 287 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1143 |
| Yes | 296 |

TTM_PLANT_DEER

Which, if any, of the following do you see as potential challenges to planting trees on your wooded land?
Planted trees on my wooded land are at risk from deer browse



Landowner totals

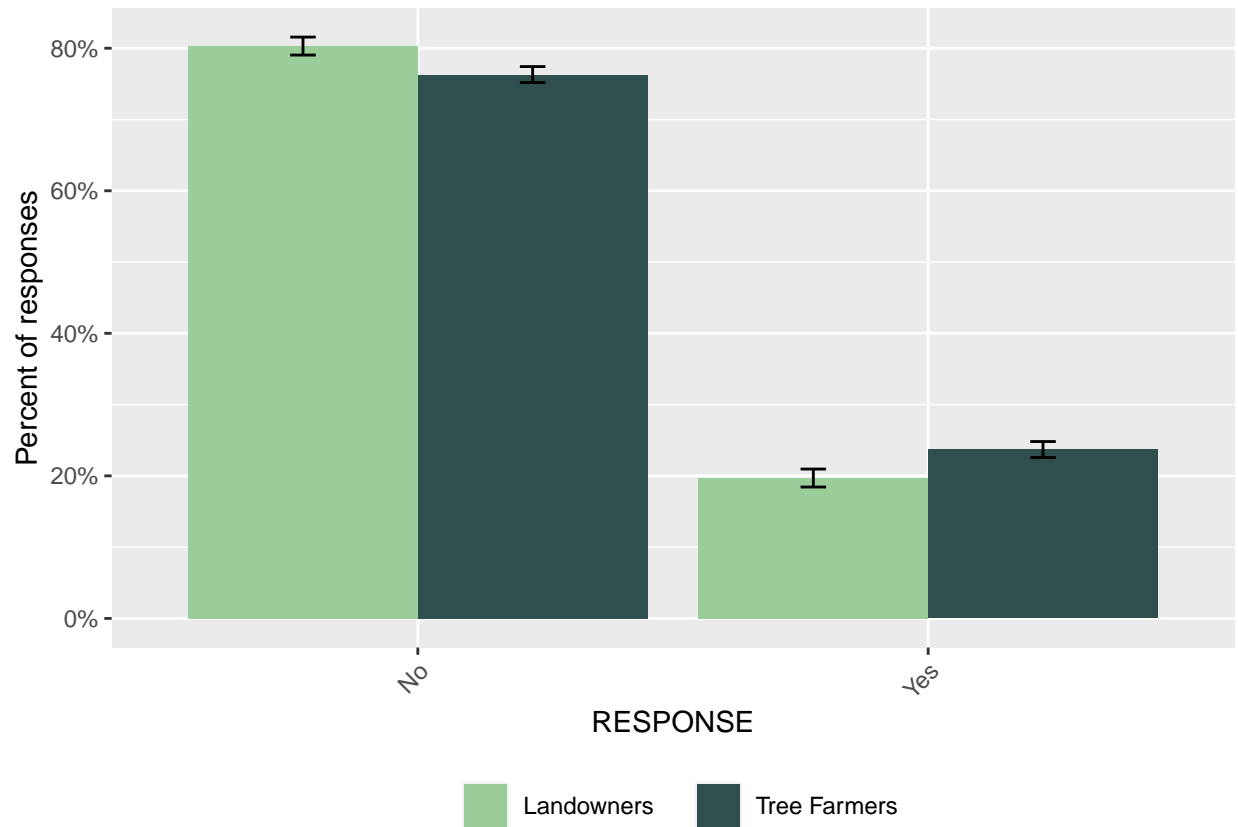
| | n |
|-----|-----|
| No | 577 |
| Yes | 418 |

Tree Farmer totals

| | n |
|-----|-----|
| No | 821 |
| Yes | 618 |

TTM_PLANT_INSECTS

Which, if any, of the following do you see as potential challenges to planting trees on your wooded land?
Planted trees on my wooded land are at risk from insects and disease



Landowner totals

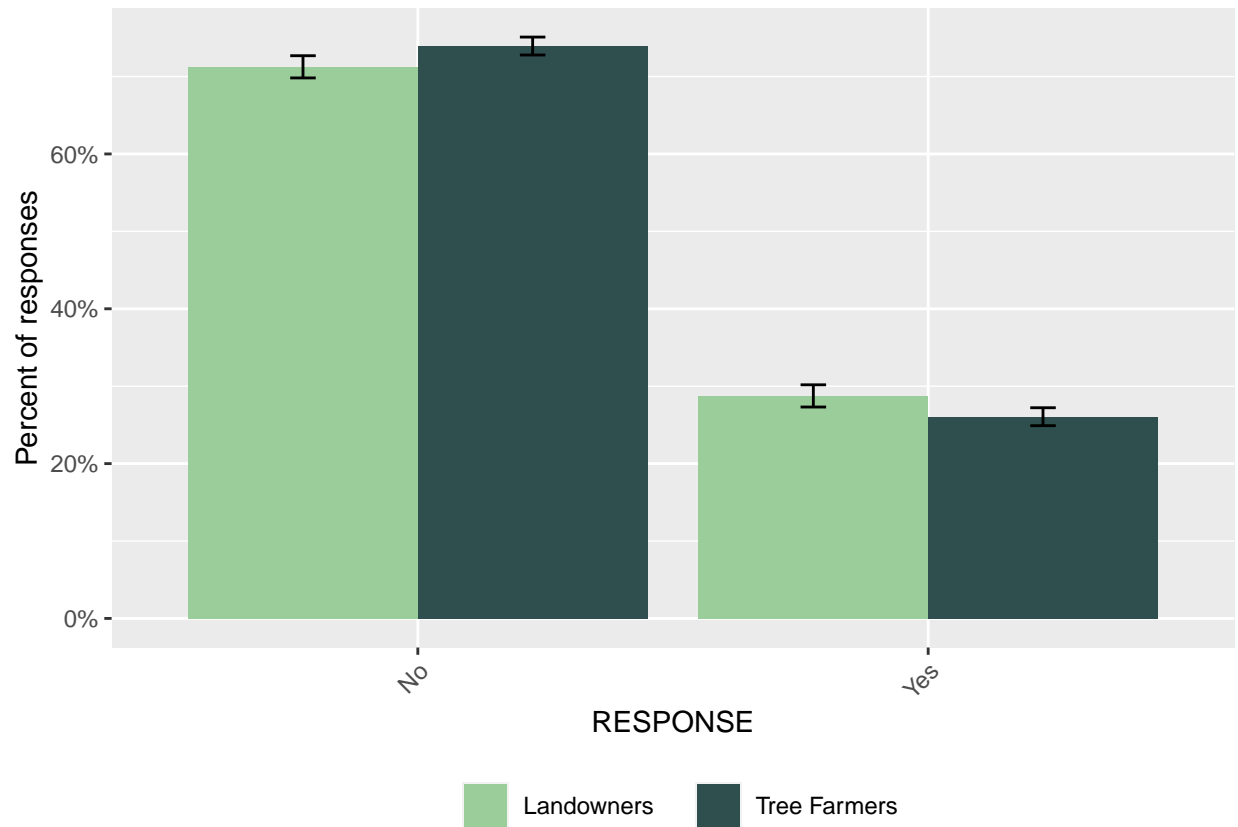
| | n |
|-----|-----|
| No | 799 |
| Yes | 196 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1098 |
| Yes | 341 |

TTM_PLANT_TIME

Which, if any, of the following do you see as potential challenges to planting trees on your wooded land?
Planting trees on my wooded land will likely require a lot of my time



Landowner totals

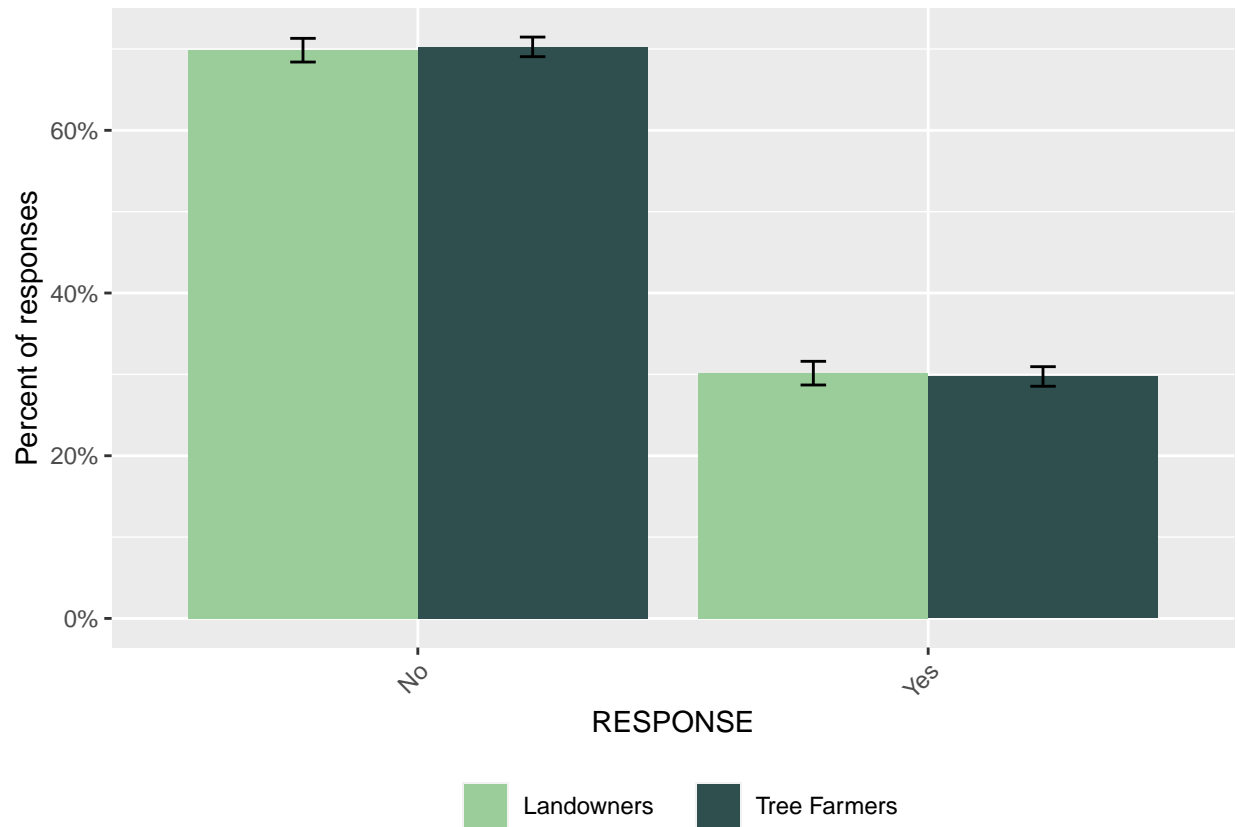
| | n |
|-----|-----|
| No | 709 |
| Yes | 286 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1064 |
| Yes | 375 |

TTM_PLANT_EXPENSIVE

Which, if any, of the following do you see as potential challenges to planting trees on your wooded land?
Planting trees on my wooded land is expensive



Landowner totals

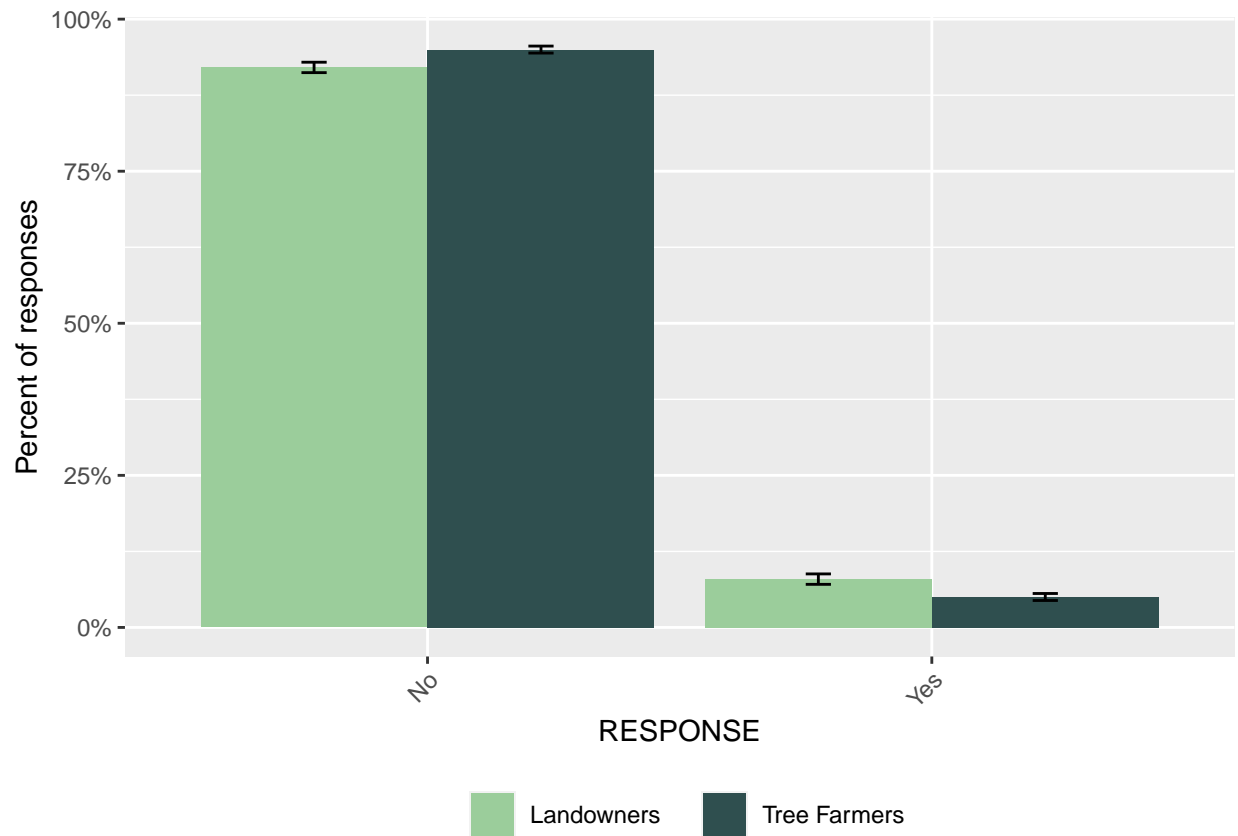
| | n |
|-----|-----|
| No | 695 |
| Yes | 300 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1011 |
| Yes | 428 |

TTM_PLANT_SEEDLINGS

Which, if any, of the following do you see as potential challenges to planting trees on your wooded land? It is difficult to get seedlings



Landowner totals

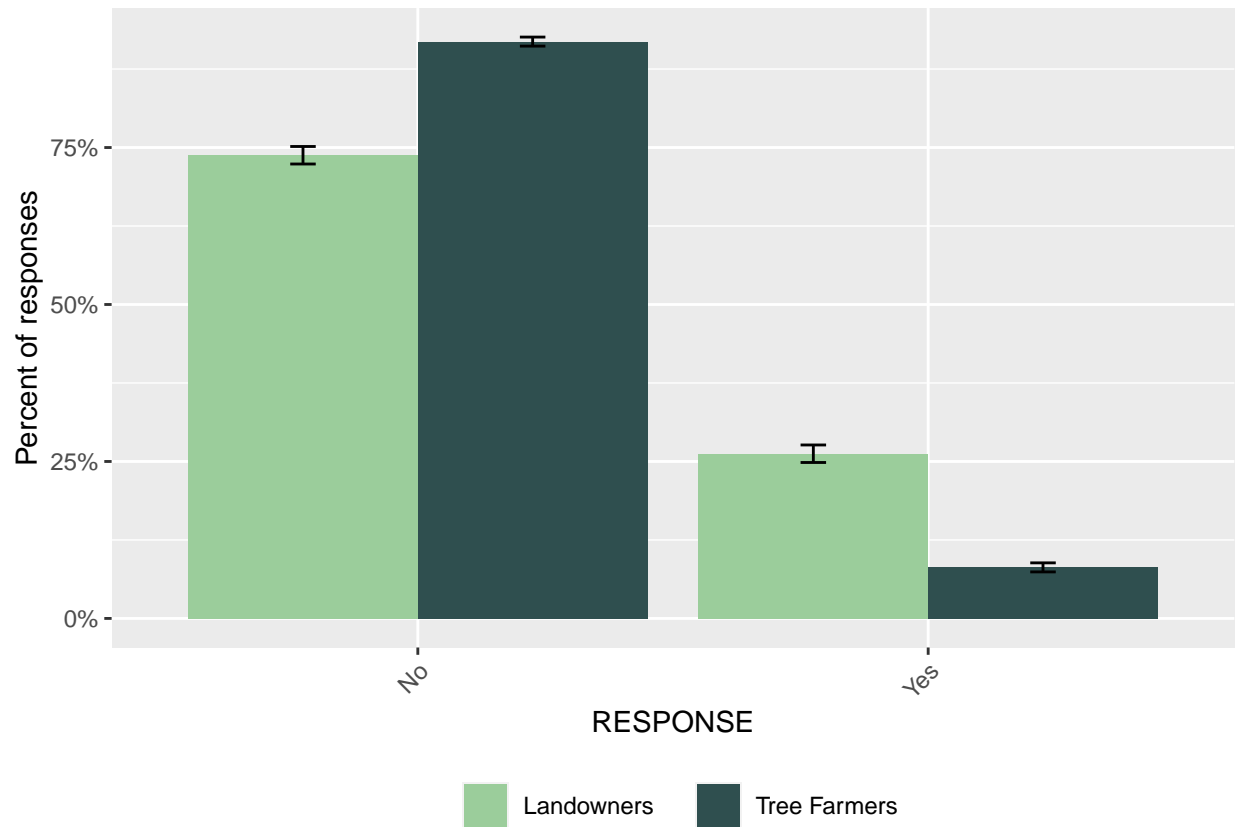
| | n |
|-----|-----|
| No | 916 |
| Yes | 79 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1367 |
| Yes | 72 |

TTM_PLANT_INFO

Which, if any, of the following do you see as potential challenges to planting trees on your wooded land? I don't have enough information about planting trees on my wooded land



Landowner totals

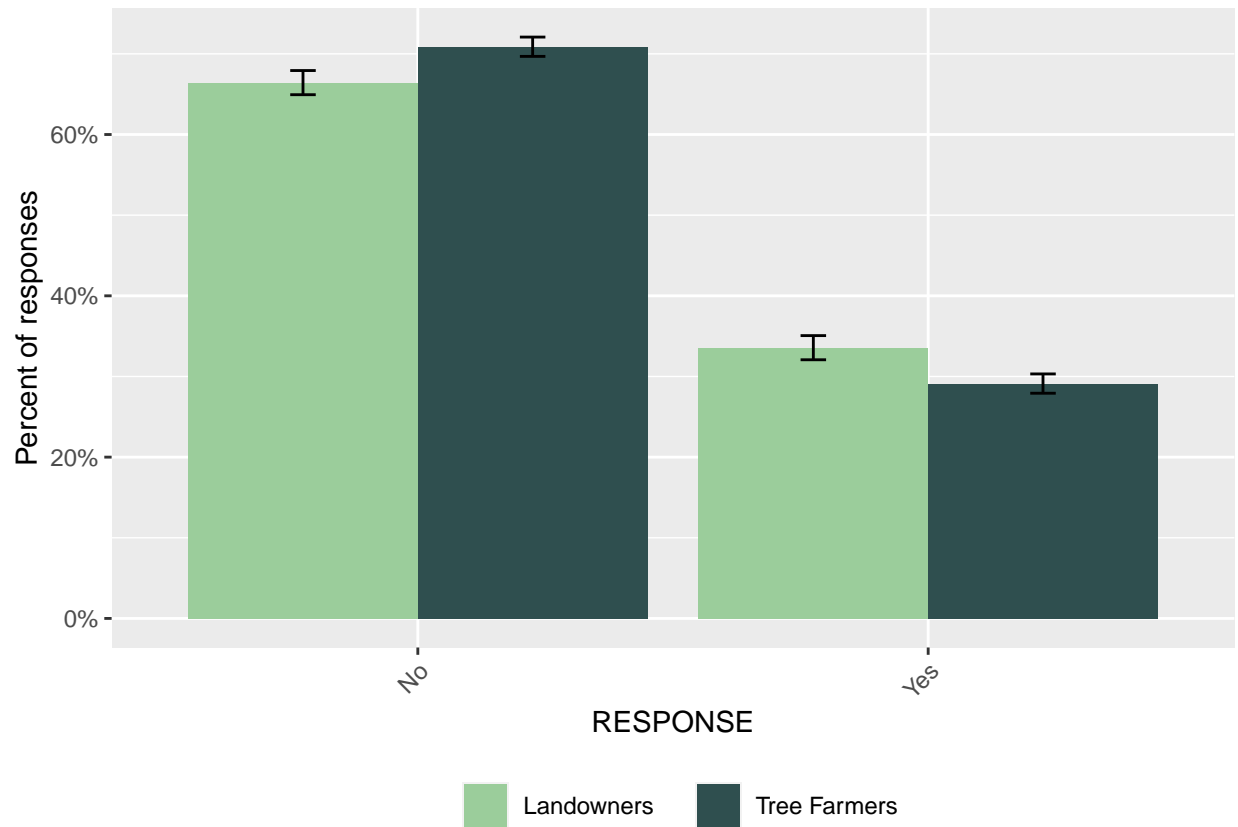
| | n |
|-----|-----|
| No | 734 |
| Yes | 261 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1322 |
| Yes | 117 |

TTM_PLANT_NONEED

Which, if any, of the following do you see as potential challenges to planting trees on your wooded land? I don't need to plant trees on my wooded land



Landowner totals

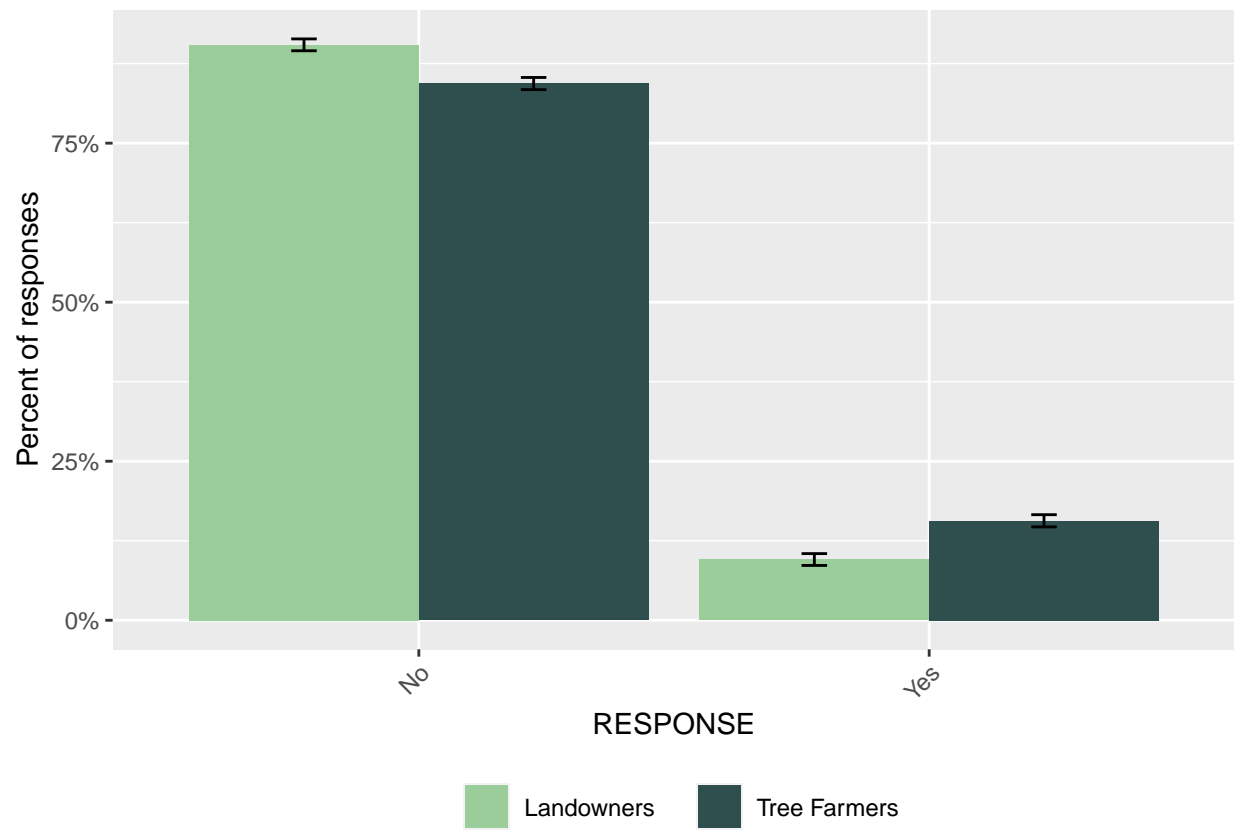
| | n |
|-----|-----|
| No | 661 |
| Yes | 334 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1020 |
| Yes | 419 |

TTM_PLANT_NOCHALL

Which, if any, of the following do you see as potential challenges to planting trees on your wooded land?
None of the above



Landowner totals

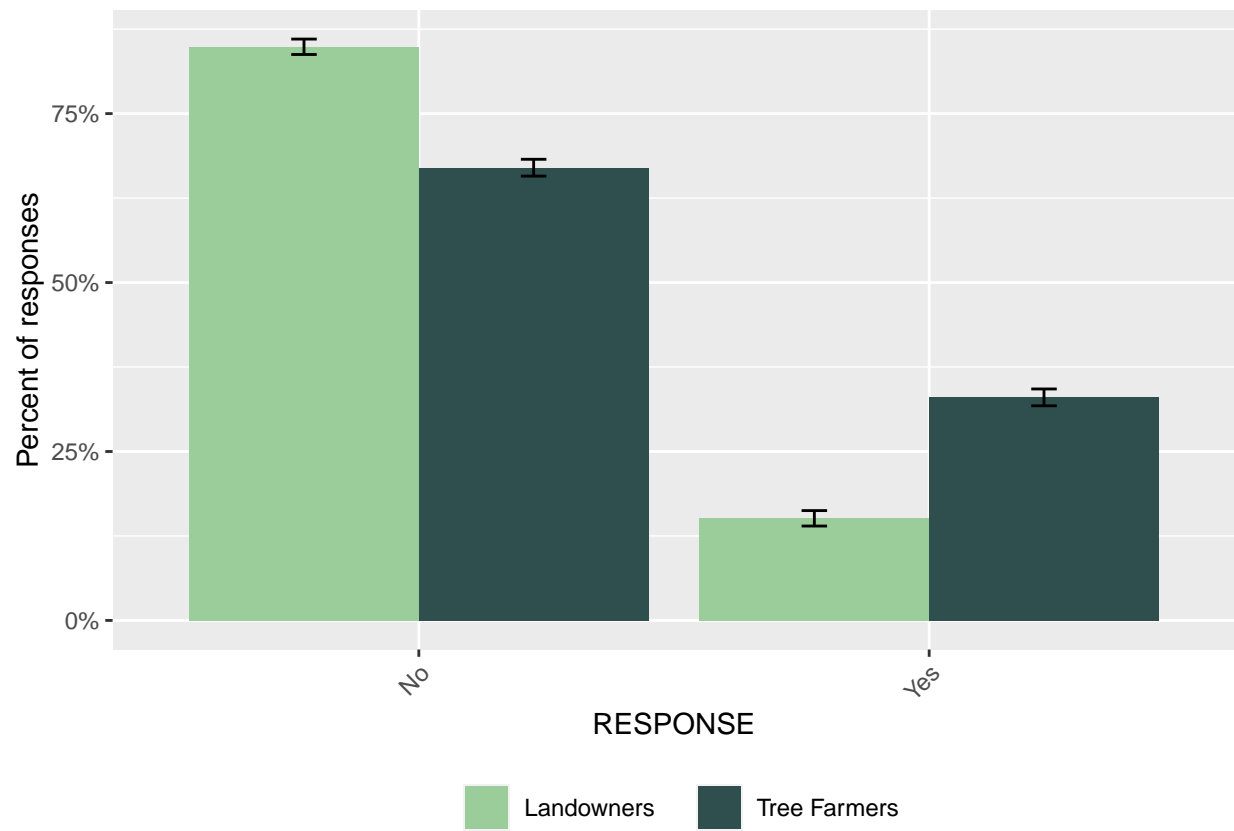
| | n |
|-----|-----|
| No | 900 |
| Yes | 95 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1214 |
| Yes | 225 |

TTM_HERB_WILD

Which, if any, of the following do you see as potential benefits from using herbicides on your wooded land?
Using herbicides on my wooded land... Will likely improve wildlife habitat



Landowner totals

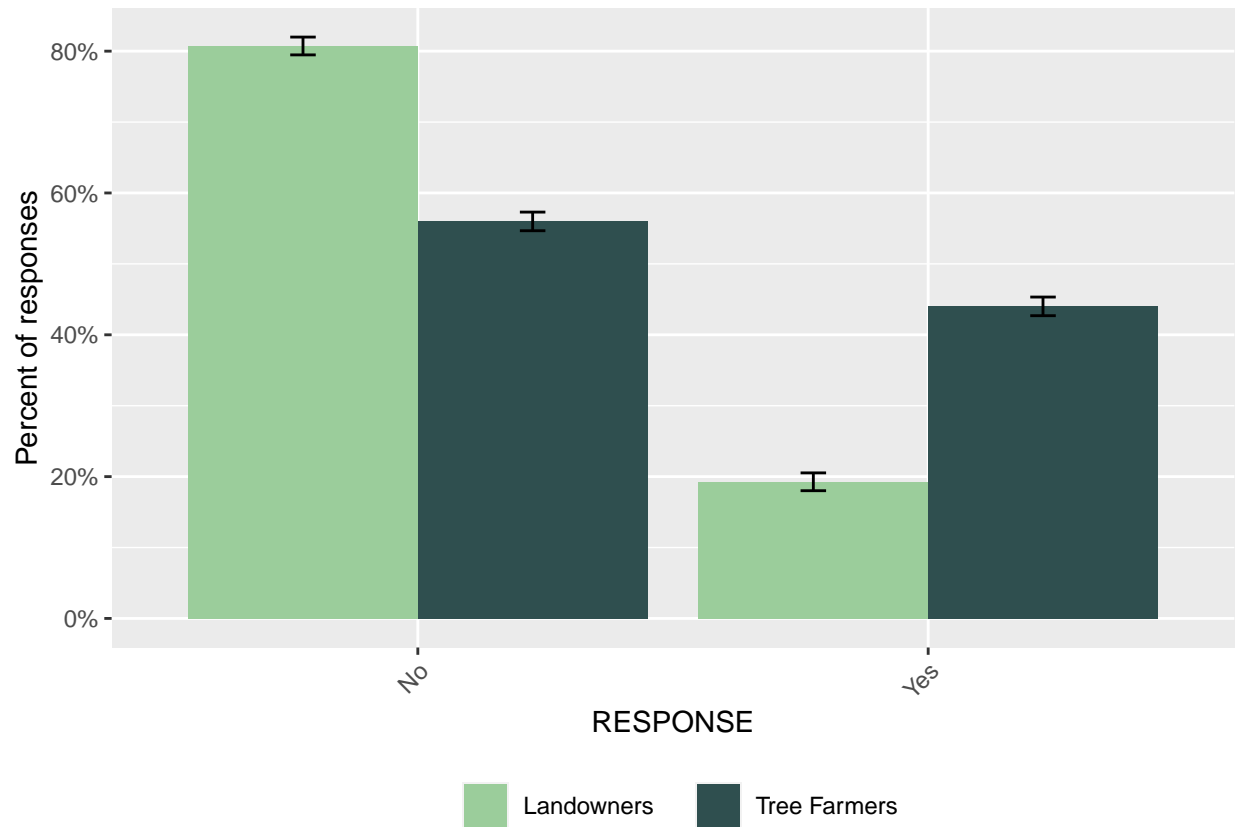
| | n |
|-----|-----|
| No | 837 |
| Yes | 149 |

Tree Farmer totals

| | n |
|-----|-----|
| No | 956 |
| Yes | 471 |

TTM_HERB_TIMBER

Which, if any, of the following do you see as potential benefits from using herbicides on your wooded land?
Using herbicides on my wooded land... Will likely increase future timber quality



Landowner totals

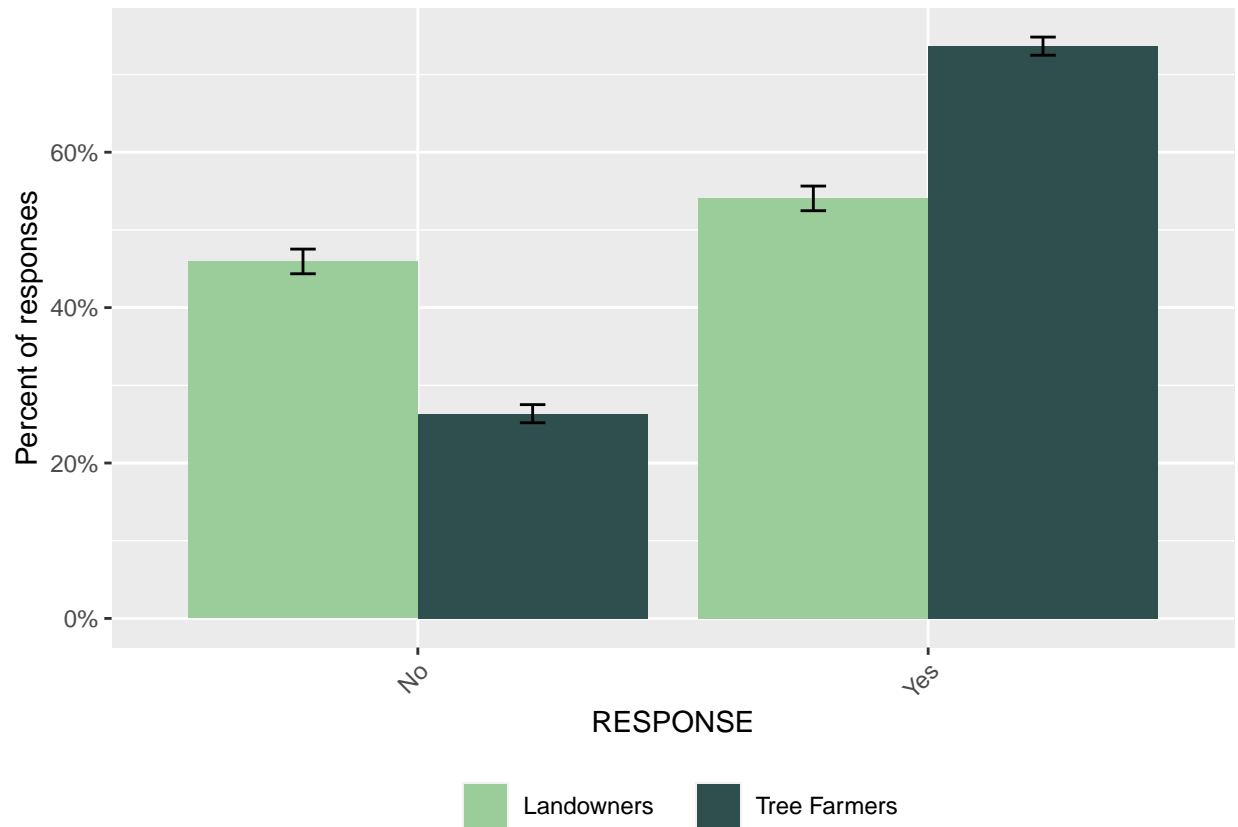
| | n |
|-----|-----|
| No | 796 |
| Yes | 190 |

Tree Farmer totals

| | n |
|-----|-----|
| No | 799 |
| Yes | 628 |

TTM_HERB_INVASIVES

Which, if any, of the following do you see as potential benefits from using herbicides on your wooded land?
Using herbicides on my wooded land... Will likely reduce invasive plants



Landowner totals

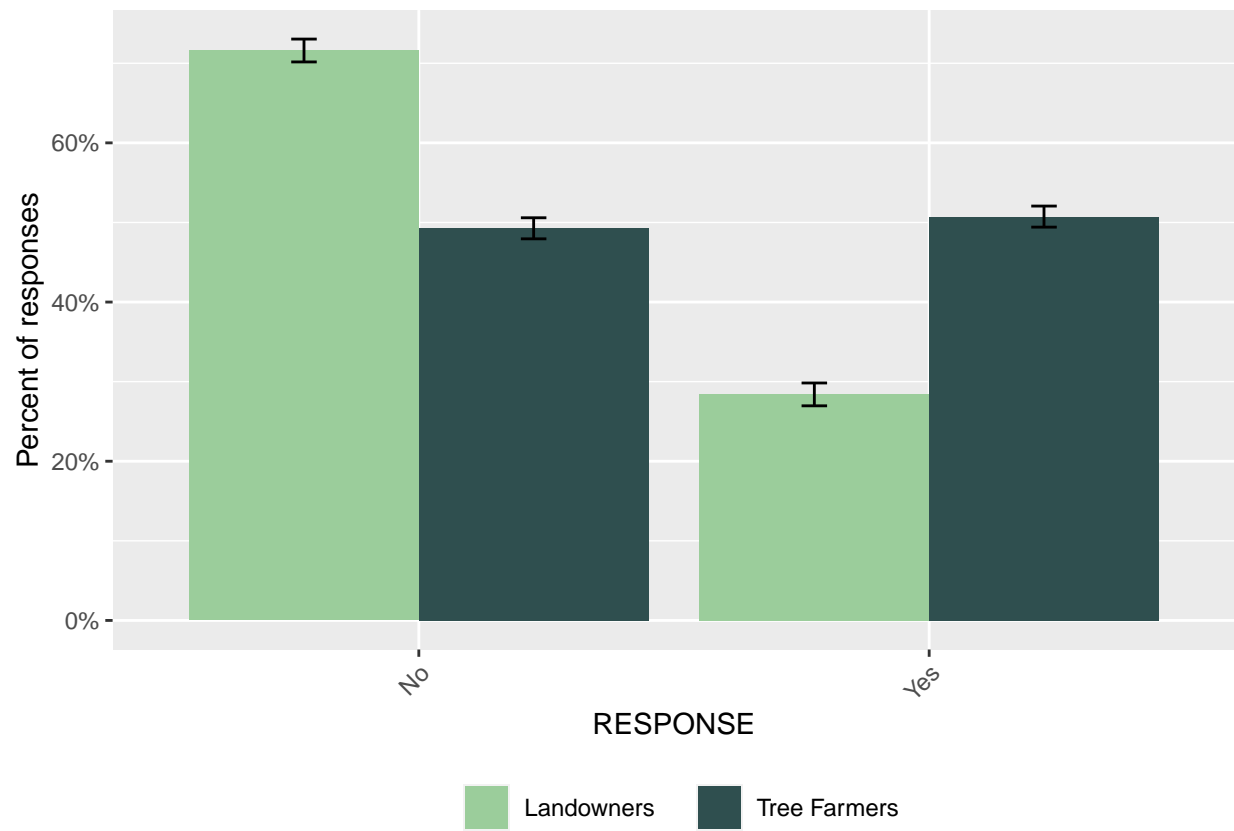
| | n |
|-----|-----|
| No | 453 |
| Yes | 533 |

Tree Farmer totals

| | n |
|-----|------|
| No | 376 |
| Yes | 1051 |

TTM_HERB_GROW

Which, if any, of the following do you see as potential benefits from using herbicides on your wooded land?
Using herbicides on my wooded land... Will likely encourage plants I want to grow



Landowner totals

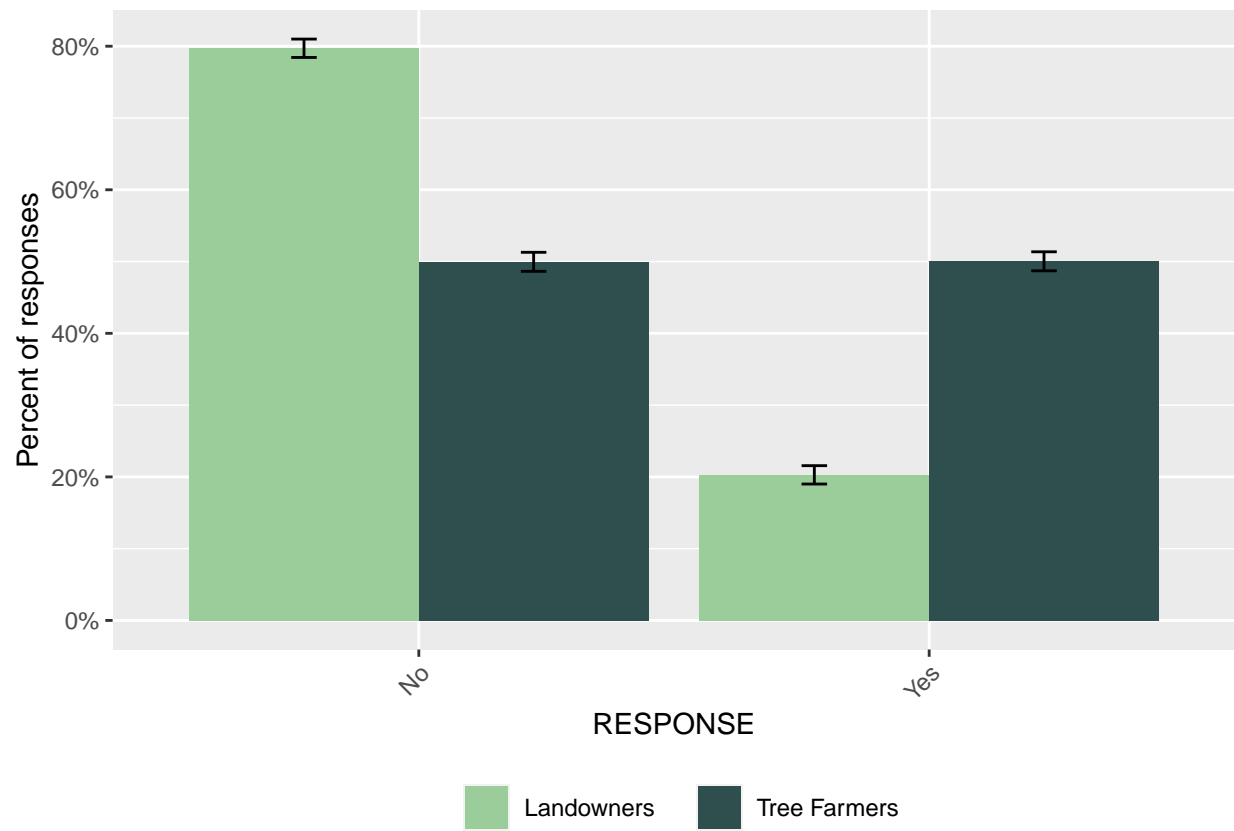
| | n |
|-----|-----|
| No | 706 |
| Yes | 280 |

Tree Farmer totals

| | n |
|-----|-----|
| No | 703 |
| Yes | 724 |

TTM_HERB_GOALS

Which, if any, of the following do you see as potential benefits from using herbicides on your wooded land?
Using herbicides on my wooded land... Will likely further my goals for my wooded land



Landowner totals

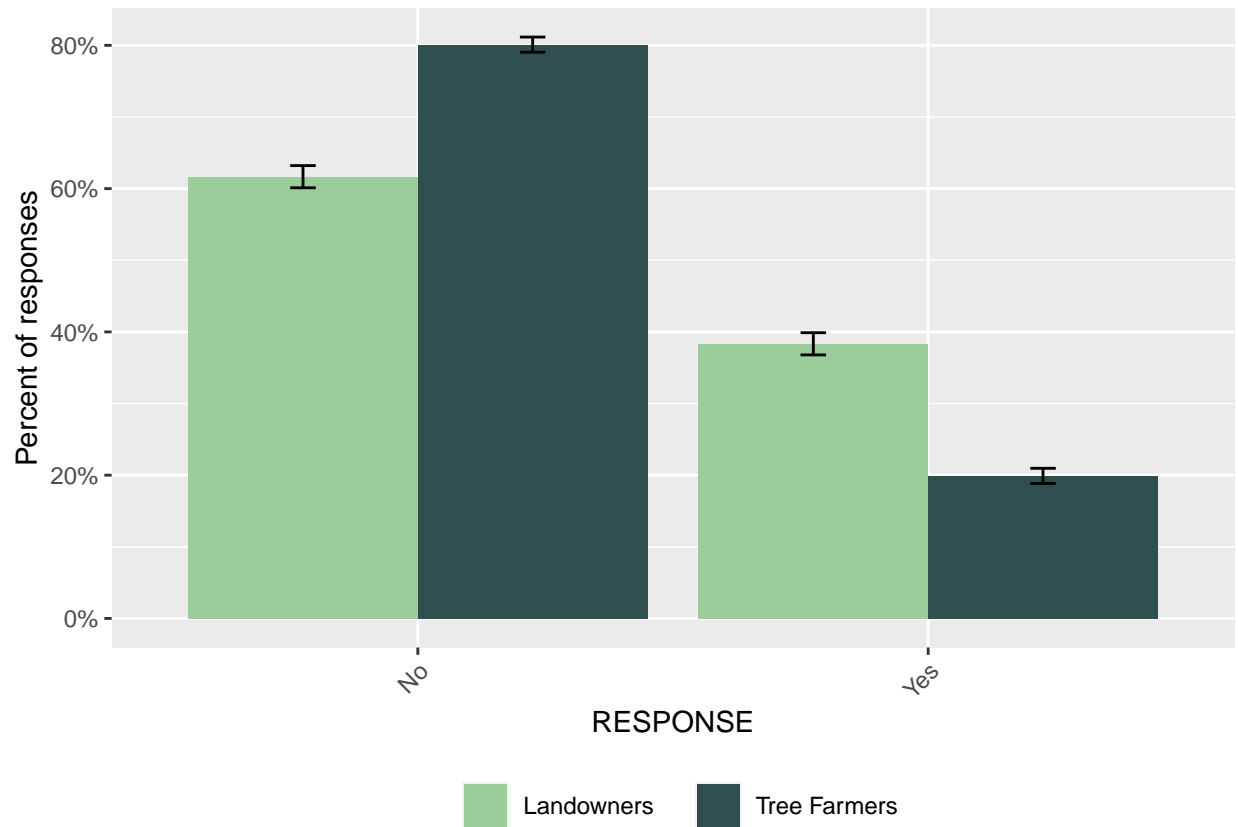
| | |
|-----|-----|
| | n |
| No | 786 |
| Yes | 200 |

Tree Farmer totals

| | |
|-----|-----|
| | n |
| No | 713 |
| Yes | 714 |

TTM_HERB_NOBEN

Which, if any, of the following do you see as potential benefits from using herbicides on your wooded land?
Using herbicides on my wooded land... None of the above



Landowner totals

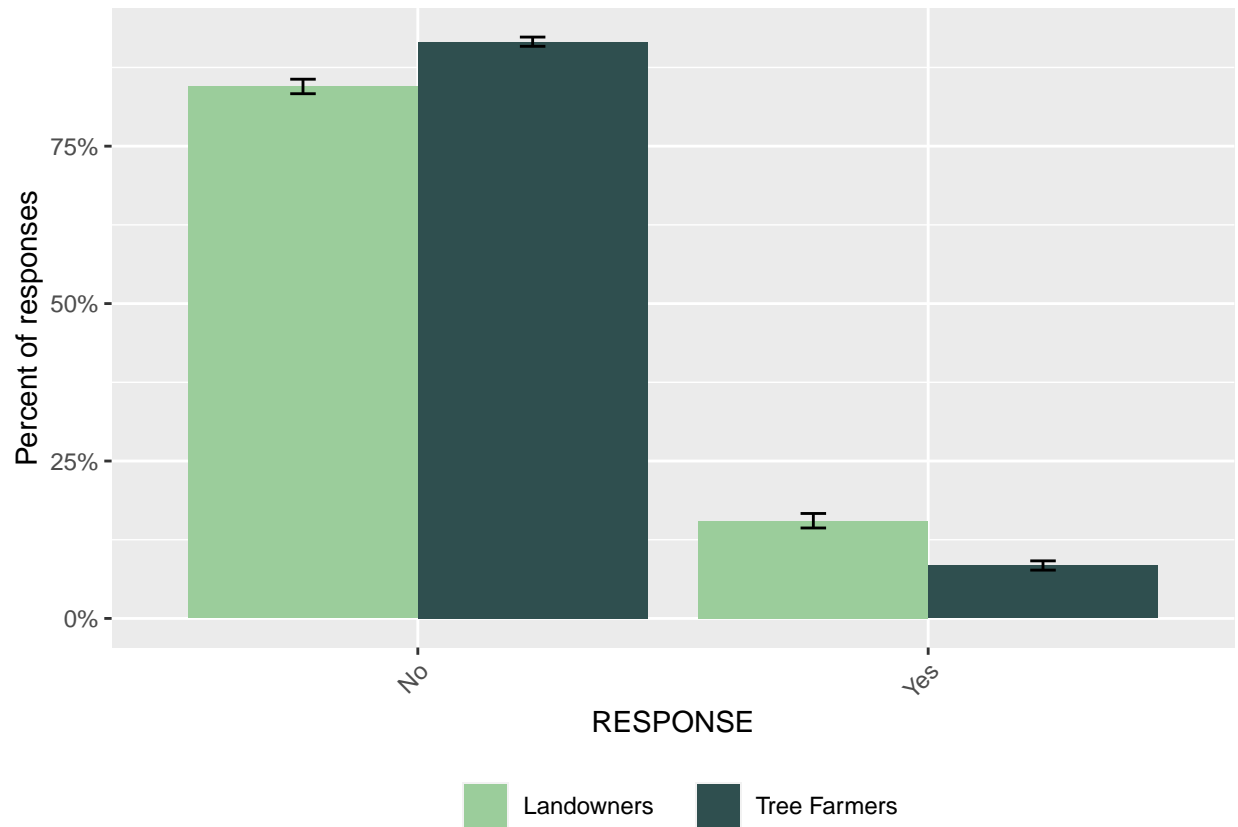
| | n |
|-----|-----|
| No | 608 |
| Yes | 378 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1143 |
| Yes | 284 |

TTM_HERB_DAMAGE

Which, if any, of the following do you see as potential challenges to using herbicides on your wooded land?
Herbicides will likely damage my wooded land



Landowner totals

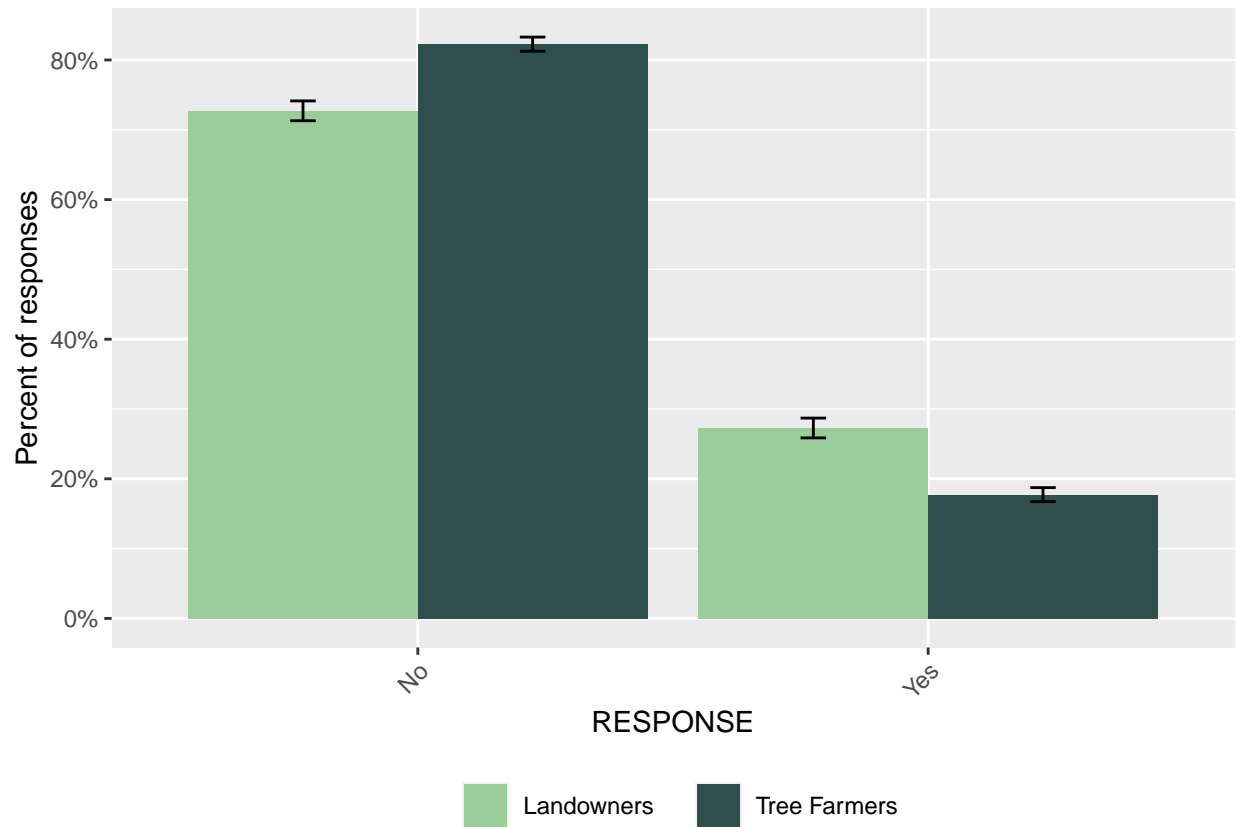
| | n |
|-----|-----|
| No | 833 |
| Yes | 153 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1307 |
| Yes | 120 |

TTM_HERB_DAMAGE_WET

Which, if any, of the following do you see as potential challenges to using herbicides on your wooded land?
Using herbicides on my wooded land will likely damage wetlands or wet areas



Landowner totals

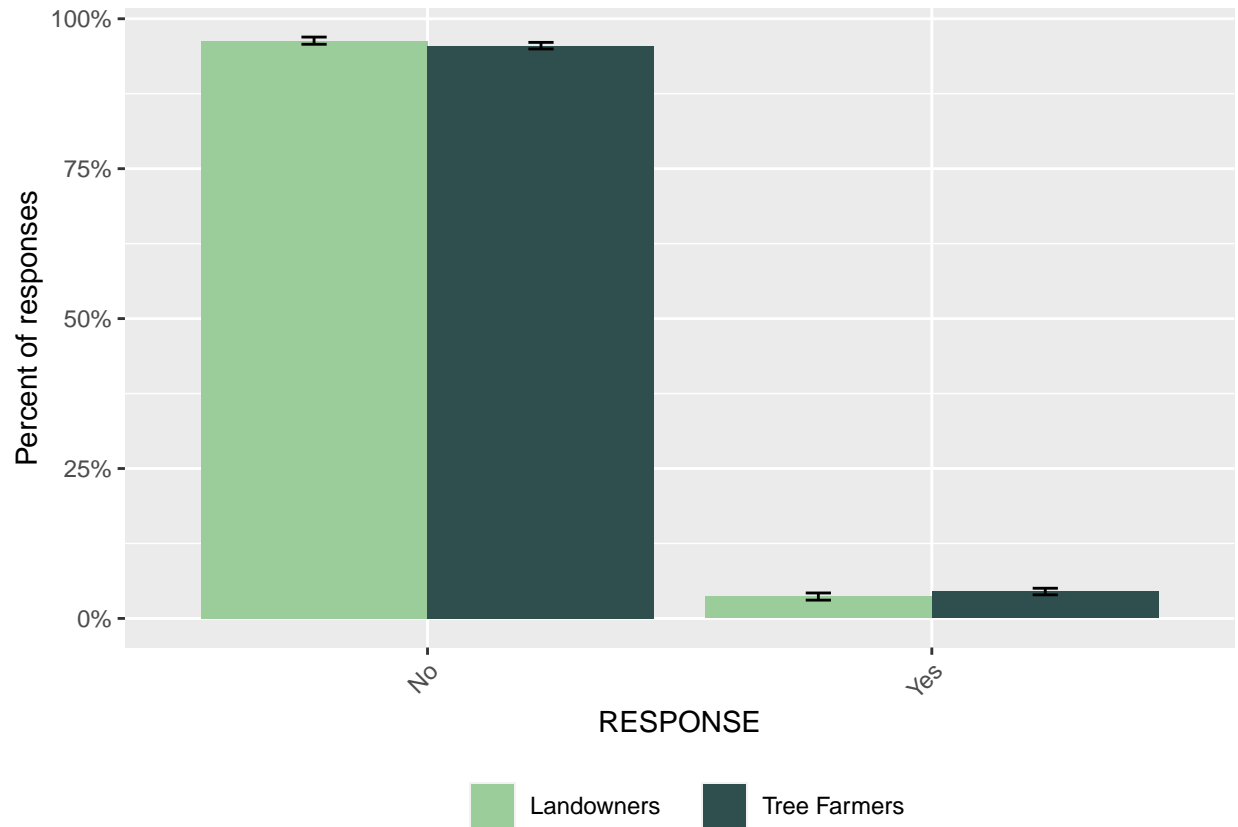
| | n |
|-----|-----|
| No | 717 |
| Yes | 269 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1174 |
| Yes | 253 |

TTM_HERB_NEIGH

Which, if any, of the following do you see as potential challenges to using herbicides on your wooded land?
My neighbors would dislike it if I used herbicides on my wooded land



Landowner totals

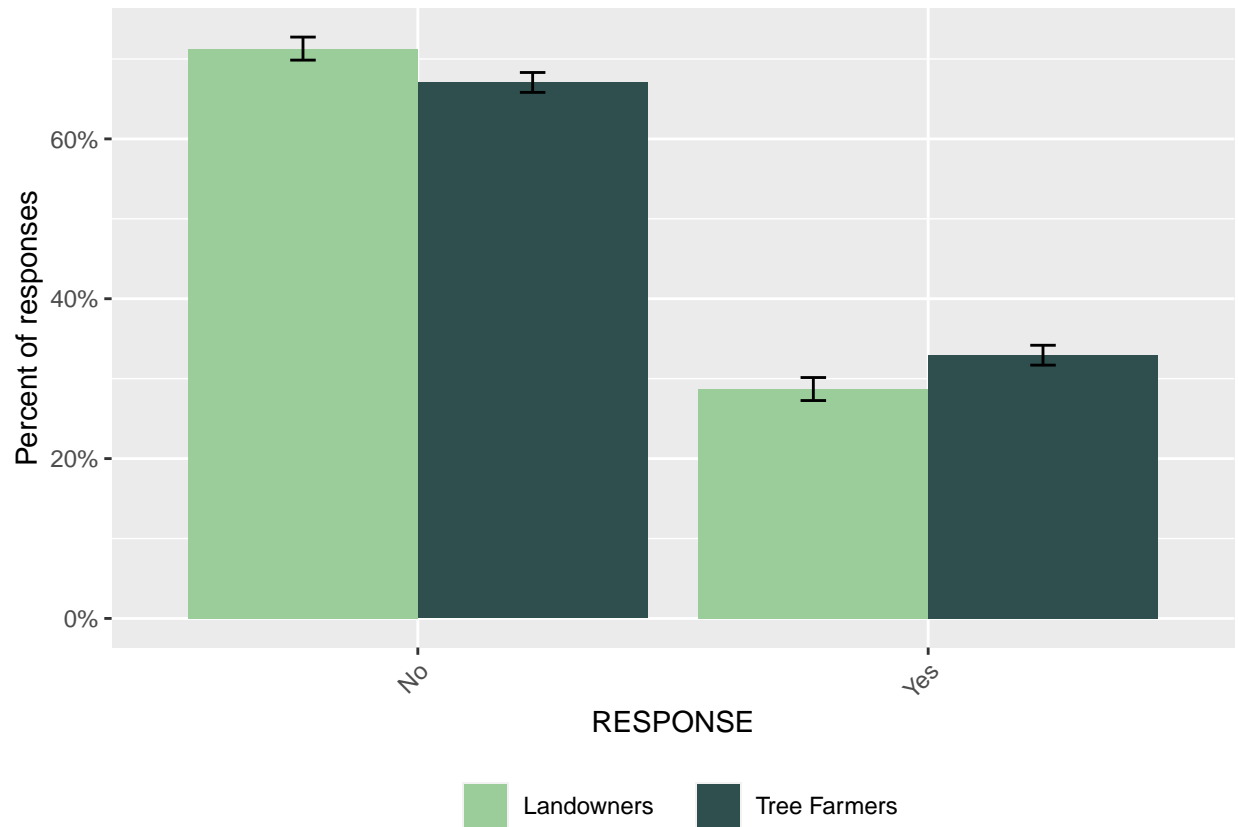
| | n |
|-----|-----|
| No | 950 |
| Yes | 36 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1363 |
| Yes | 64 |

TTM_HERB_EXPENSIVE

Which, if any, of the following do you see as potential challenges to using herbicides on your wooded land?
Using herbicides on my wooded land is expensive



Landowner totals

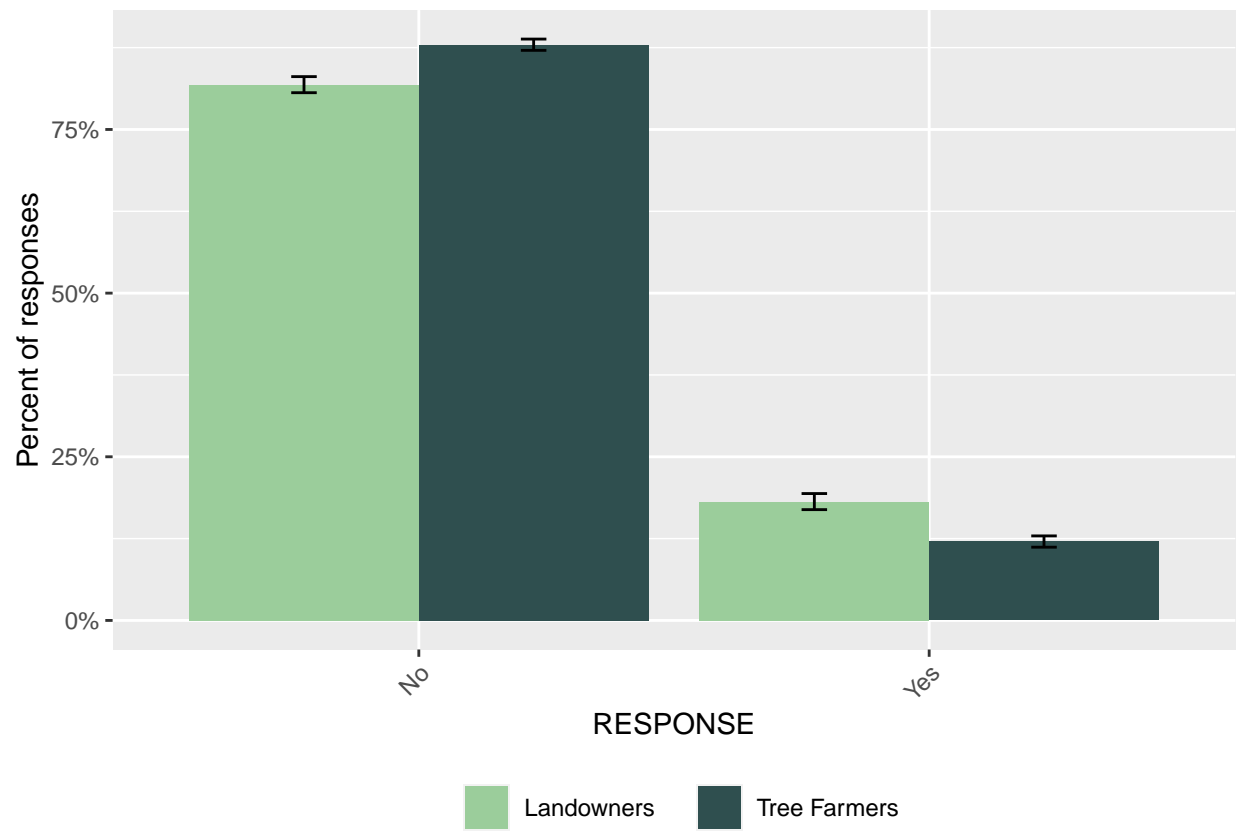
| | n |
|-----|-----|
| No | 703 |
| Yes | 283 |

Tree Farmer totals

| | n |
|-----|-----|
| No | 957 |
| Yes | 470 |

TTM_HERB_DAMAGE_PLANTS

Which, if any, of the following do you see as potential challenges to using herbicides on your wooded land?
Using herbicides on my wooded land will likely damage plants I want



Landowner totals

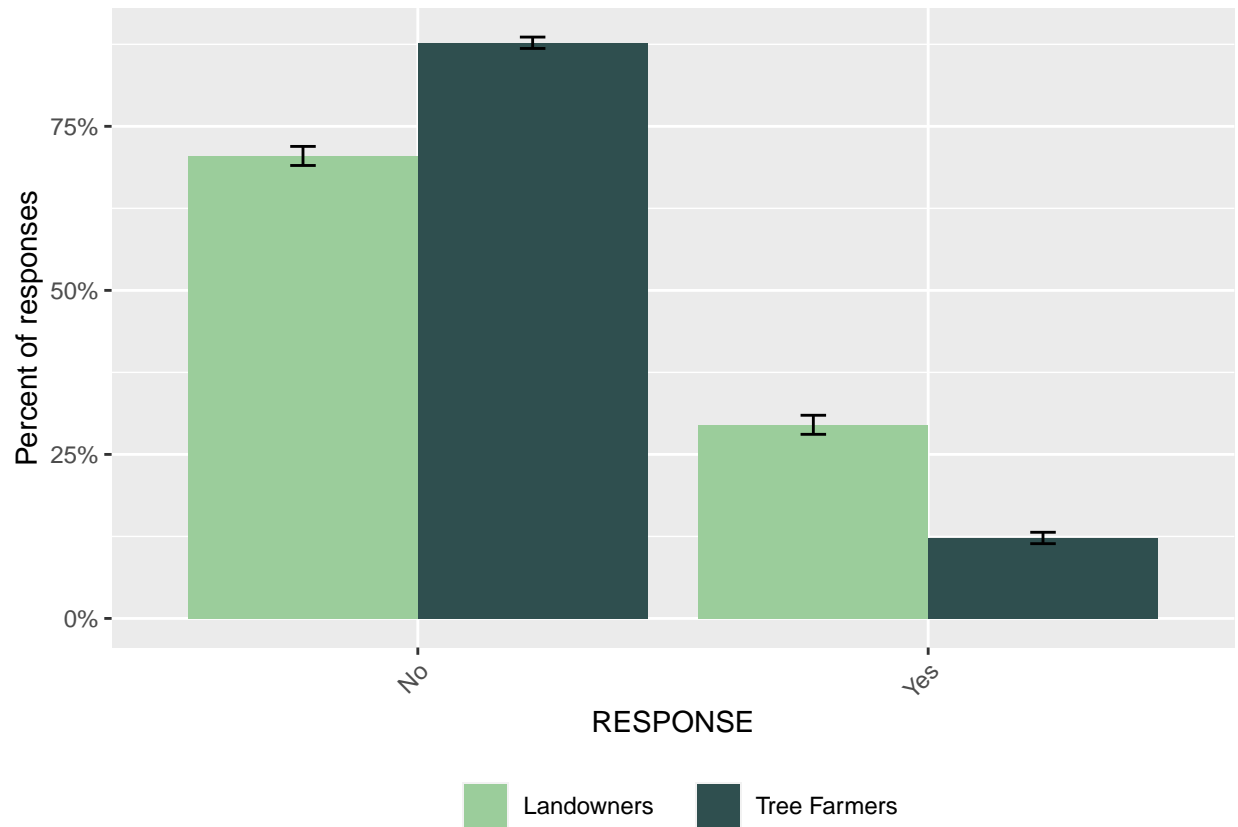
| | n |
|-----|-----|
| No | 807 |
| Yes | 179 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1255 |
| Yes | 172 |

TTM_HERB_INFO

Which, if any, of the following do you see as potential challenges to using herbicides on your wooded land? I don't have enough information about herbicides on my wooded land



Landowner totals

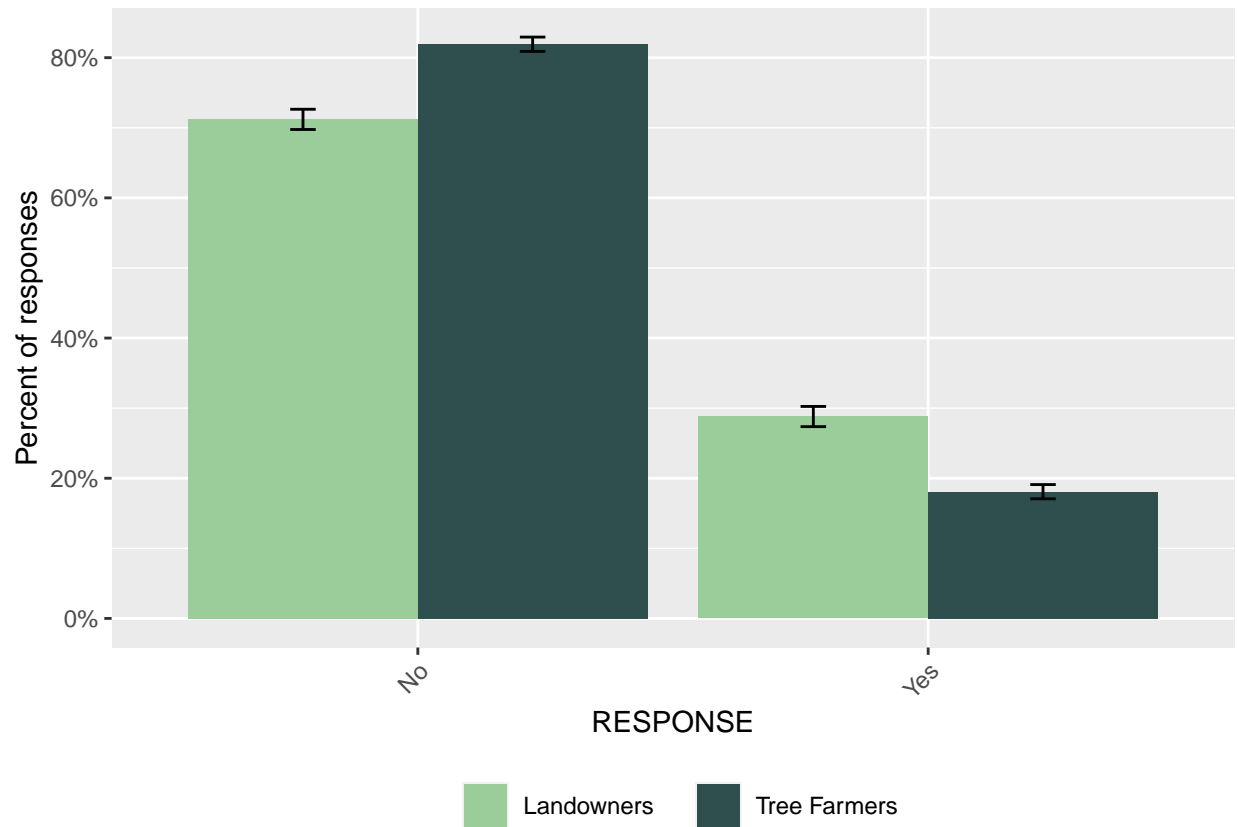
| | n |
|-----|-----|
| No | 695 |
| Yes | 291 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1252 |
| Yes | 175 |

TTM_HERB_NONEED

Which, if any, of the following do you see as potential challenges to using herbicides on your wooded land? I don't need to use herbicides on my wooded land



Landowner totals

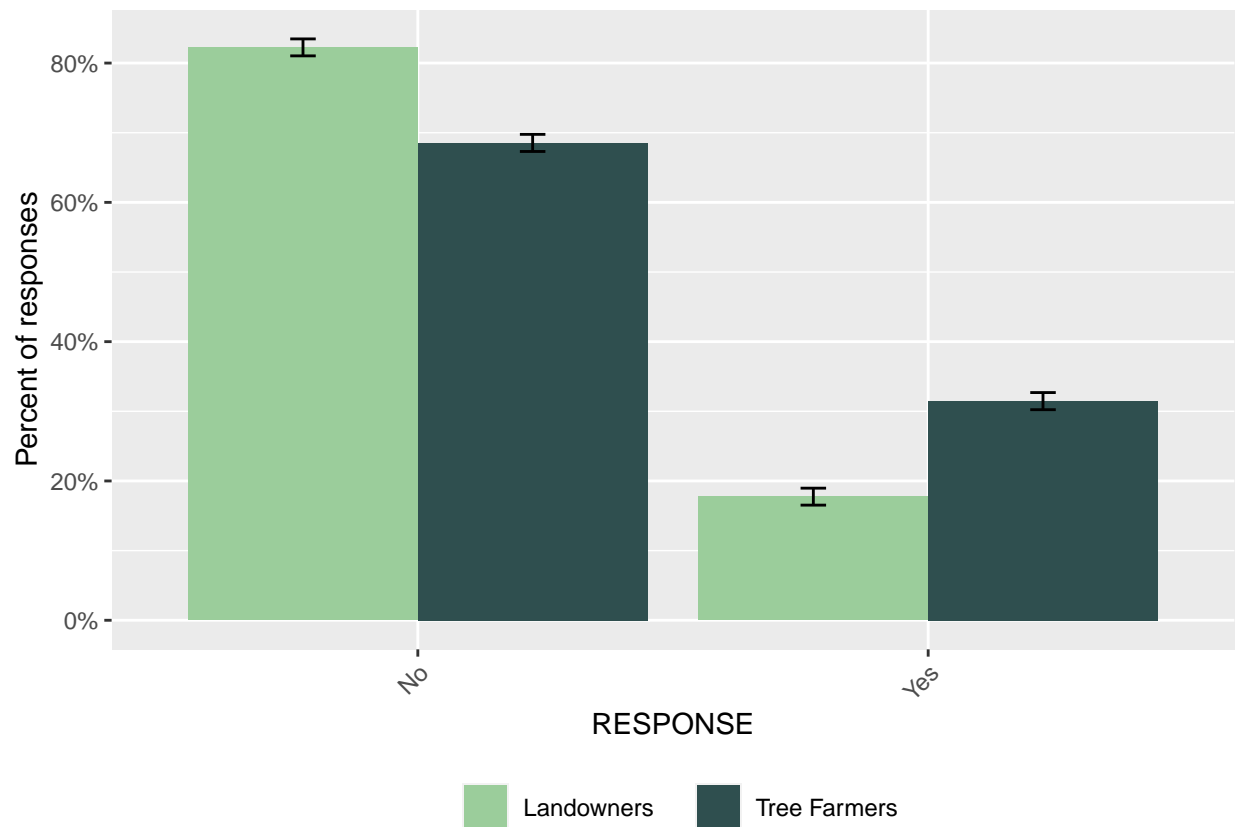
| | n |
|-----|-----|
| No | 702 |
| Yes | 284 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1169 |
| Yes | 258 |

TTM_HERB_NOCHALL

Which, if any, of the following do you see as potential challenges to using herbicides on your wooded land?
None of the above



Landowner totals

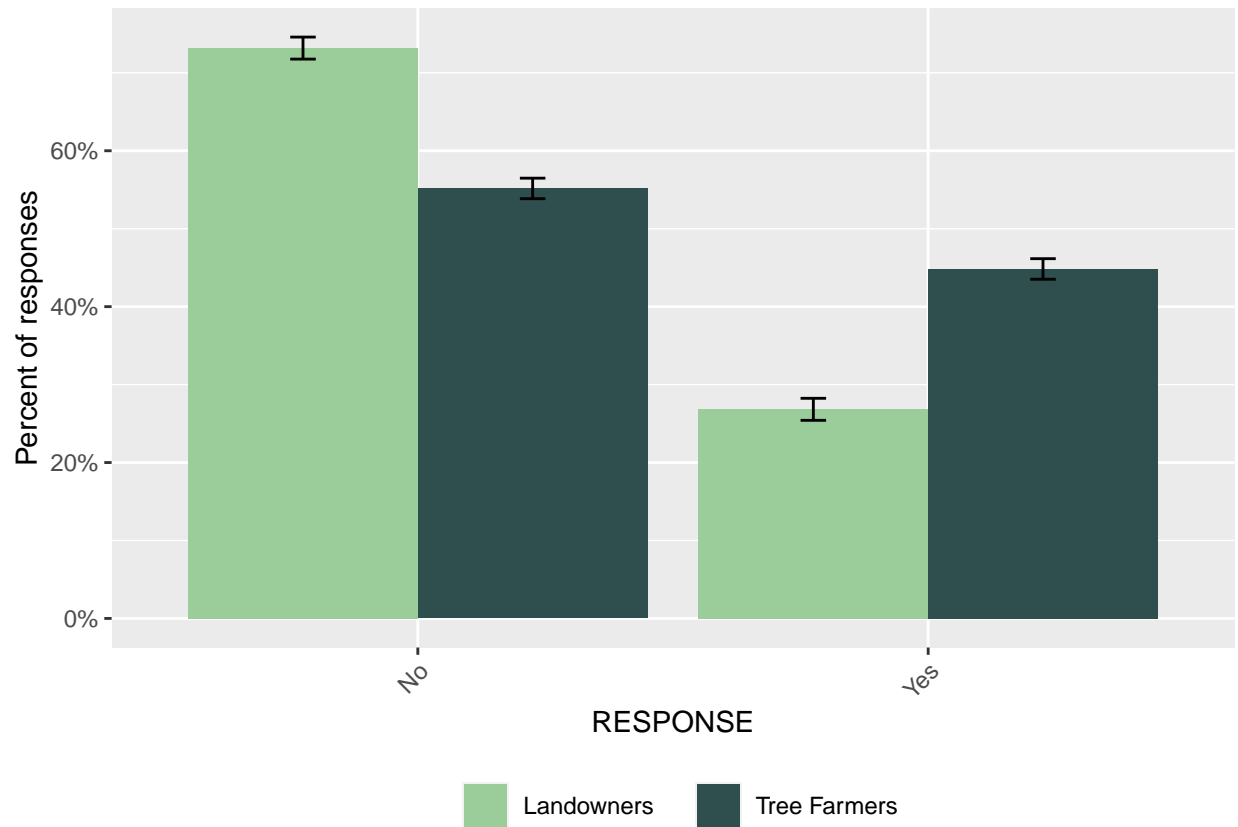
| | n |
|-----|-----|
| No | 811 |
| Yes | 175 |

Tree Farmer totals

| | n |
|-----|-----|
| No | 978 |
| Yes | 449 |

TTM_FIRE_WILD

Which, if any, of the following do you see as potential benefits from using prescribed fire on your wooded land? Using prescribed fire on my wooded land... Will likely improve wildlife habitat



Landowner totals

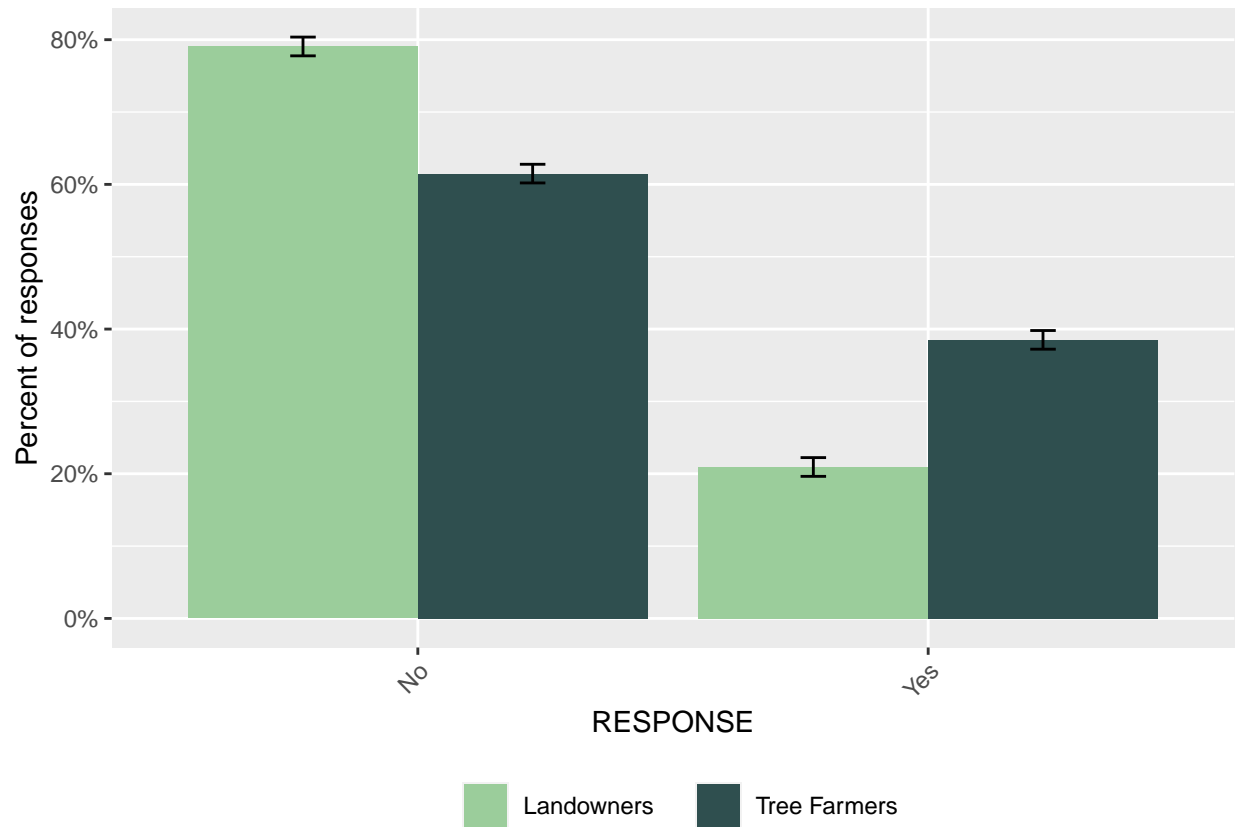
| | n |
|-----|-----|
| No | 720 |
| Yes | 264 |

Tree Farmer totals

| | n |
|-----|-----|
| No | 785 |
| Yes | 638 |

TTM_FIRE_PROMOTE_TREES

Which, if any, of the following do you see as potential benefits from using prescribed fire on your wooded land? Using prescribed fire on my wooded land... Will likely promote trees I want



Landowner totals

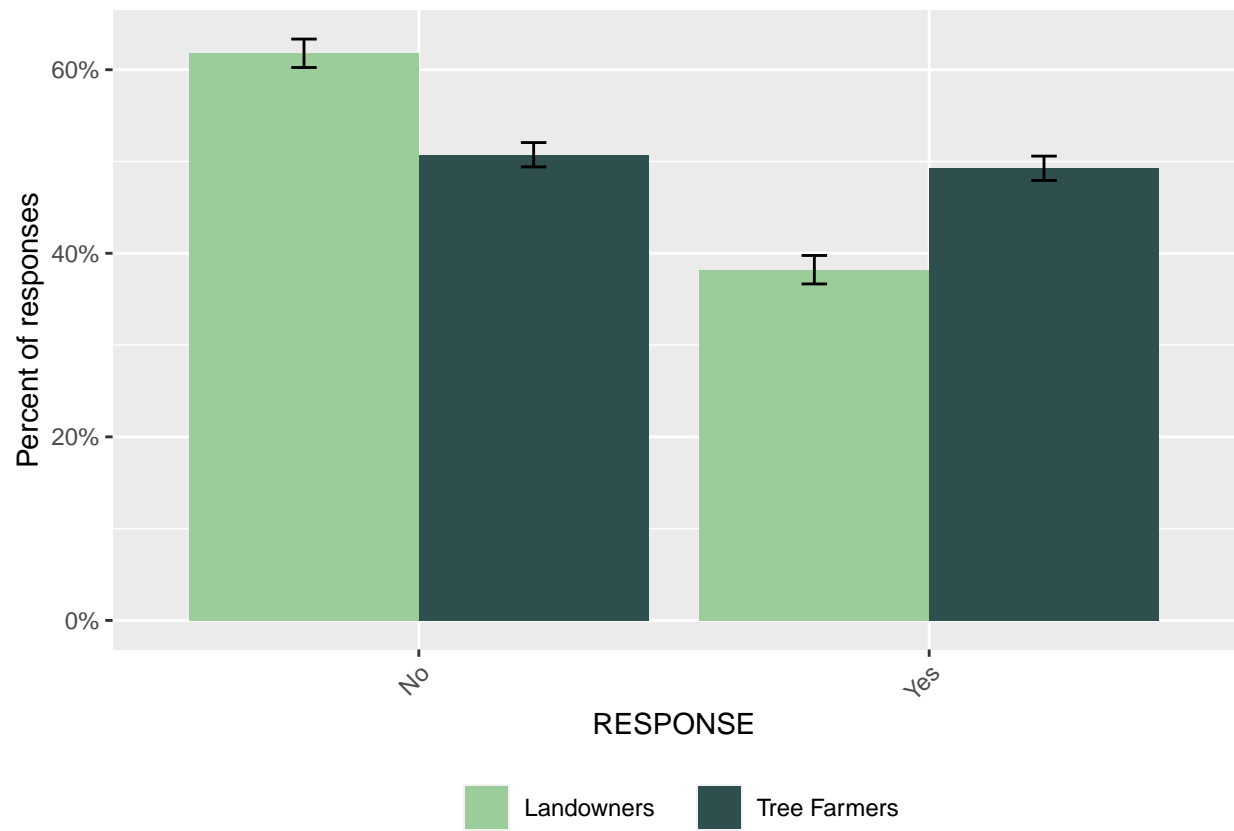
| | n |
|-----|-----|
| No | 778 |
| Yes | 206 |

Tree Farmer totals

| | n |
|-----|-----|
| No | 875 |
| Yes | 548 |

TTM_FIRE_REDUCE_PLANTS

Which, if any, of the following do you see as potential benefits from using prescribed fire on your wooded land? Using prescribed fire on my wooded land... Will likely reduce unwanted plants



Landowner totals

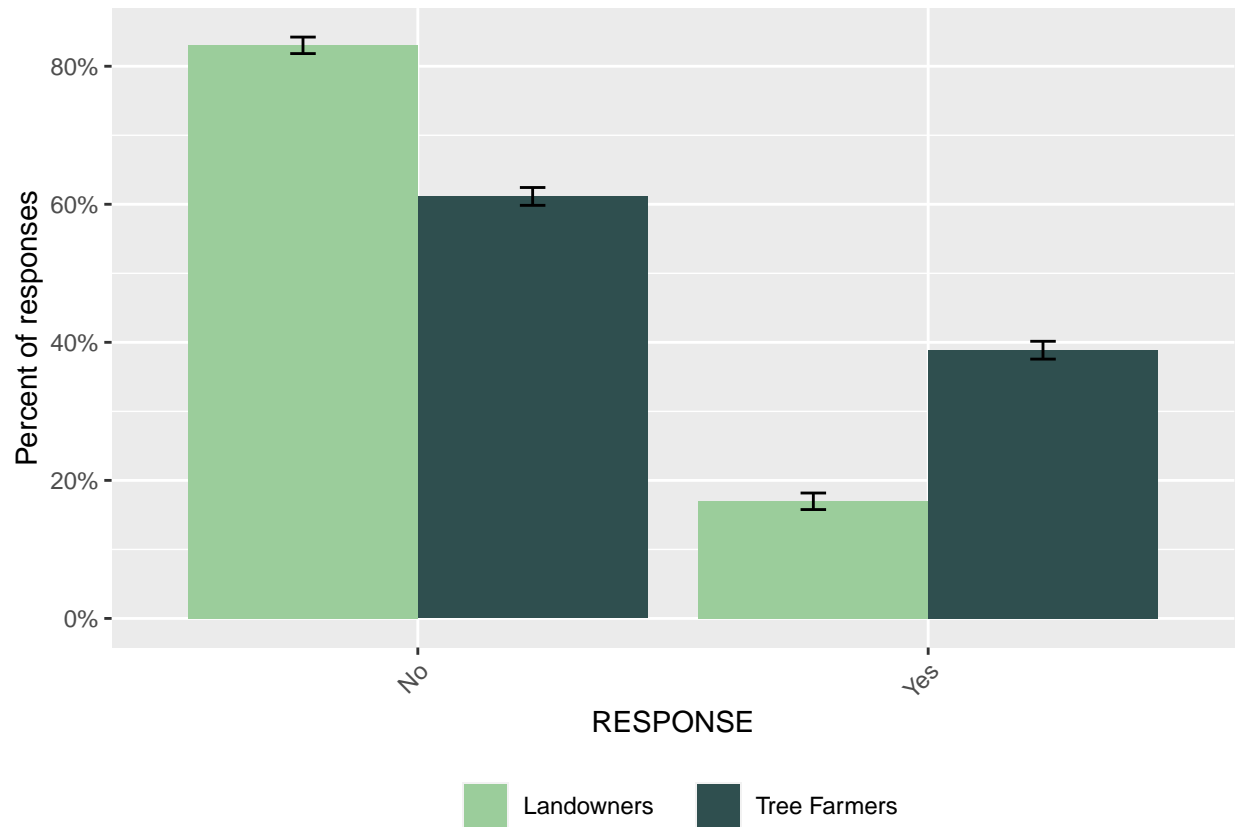
| | n |
|-----|-----|
| No | 608 |
| Yes | 376 |

Tree Farmer totals

| | n |
|-----|-----|
| No | 722 |
| Yes | 701 |

TTM_FIRE_GOALS

Which, if any, of the following do you see as potential benefits from using prescribed fire on your wooded land? Using prescribed fire on my wooded land... Will likely further my goals for my wooded land



Landowner totals

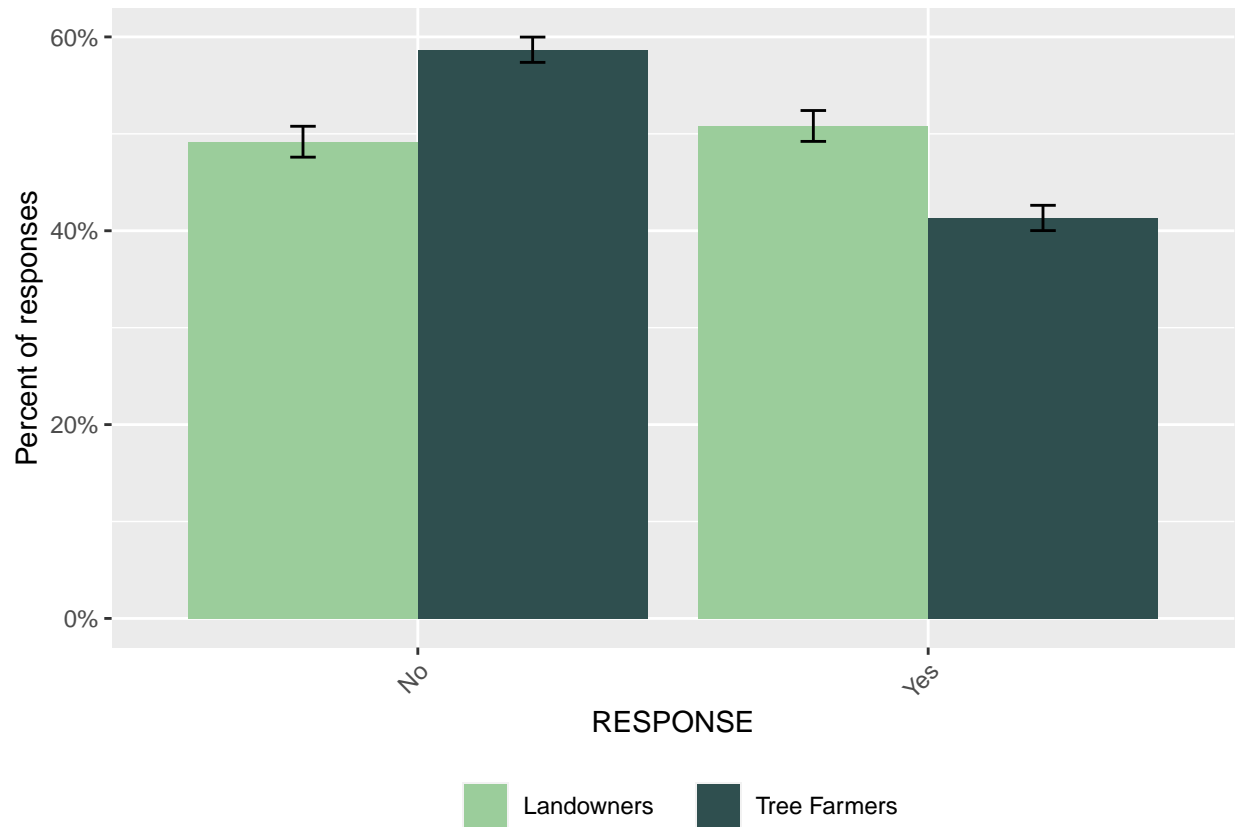
| | n |
|-----|-----|
| No | 817 |
| Yes | 167 |

Tree Farmer totals

| | n |
|-----|-----|
| No | 870 |
| Yes | 553 |

TTM_FIRE_NOBEN

Which, if any, of the following do you see as potential benefits from using prescribed fire on your wooded land? Using prescribed fire on my wooded land... None of the above



Landowner totals

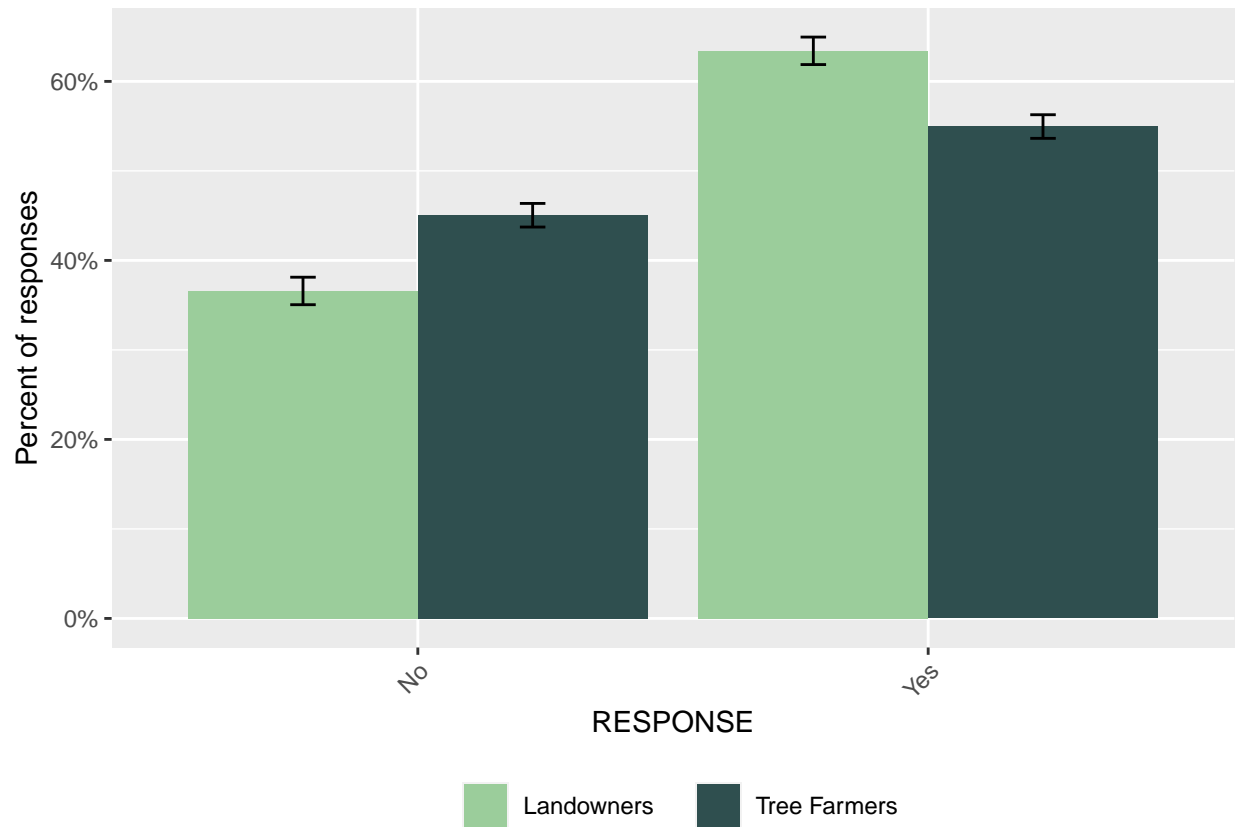
| | n |
|-----|-----|
| No | 484 |
| Yes | 500 |

Tree Farmer totals

| | n |
|-----|-----|
| No | 835 |
| Yes | 588 |

TTM_FIRE_RISK

Which, if any, of the following do you see as potential challenges to using prescribed fire on your wooded land? Prescribed fire on my wooded land can be risky or dangerous



Landowner totals

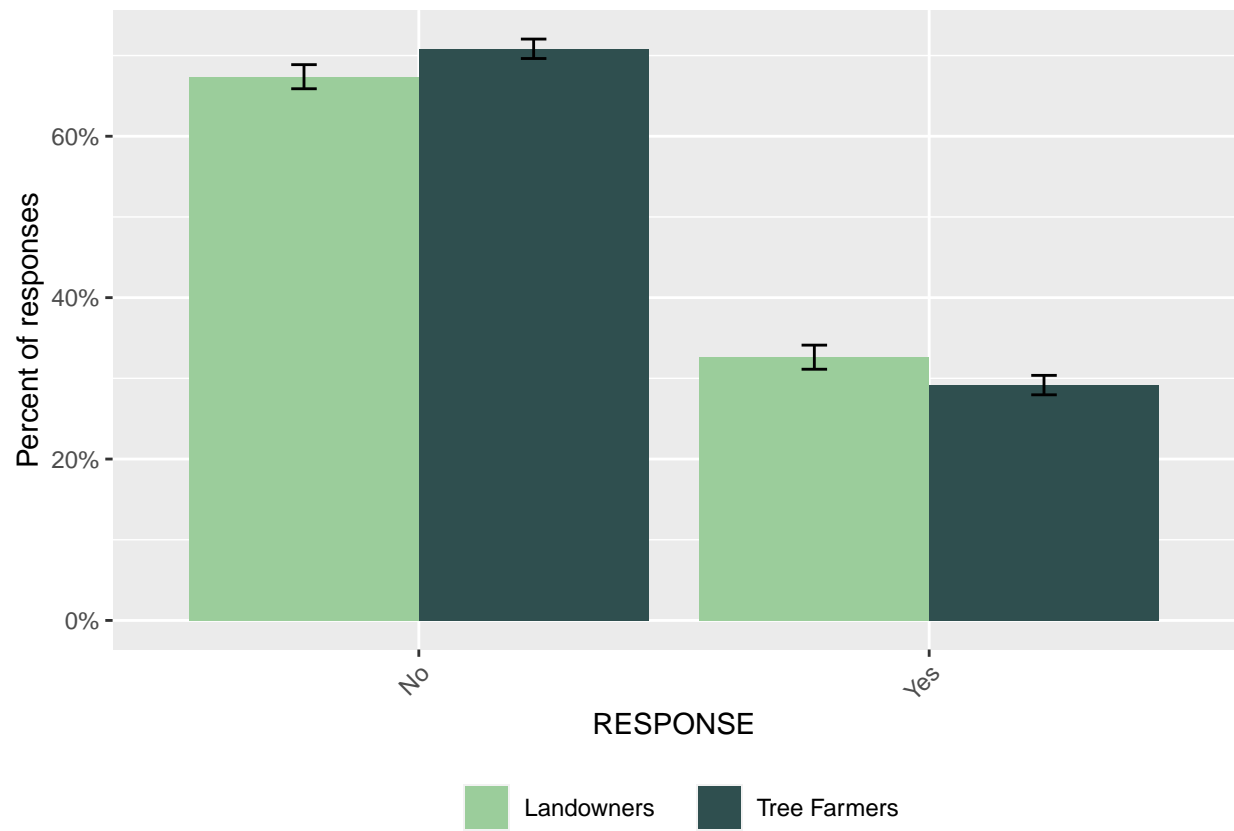
| | n |
|-----|-----|
| No | 360 |
| Yes | 624 |

Tree Farmer totals

| | n |
|-----|-----|
| No | 641 |
| Yes | 782 |

TTM_FIRE_DAMAGE_PLANTS

Which, if any, of the following do you see as potential challenges to using prescribed fire on your wooded land? Prescribed fire can damage plants I want



Landowner totals

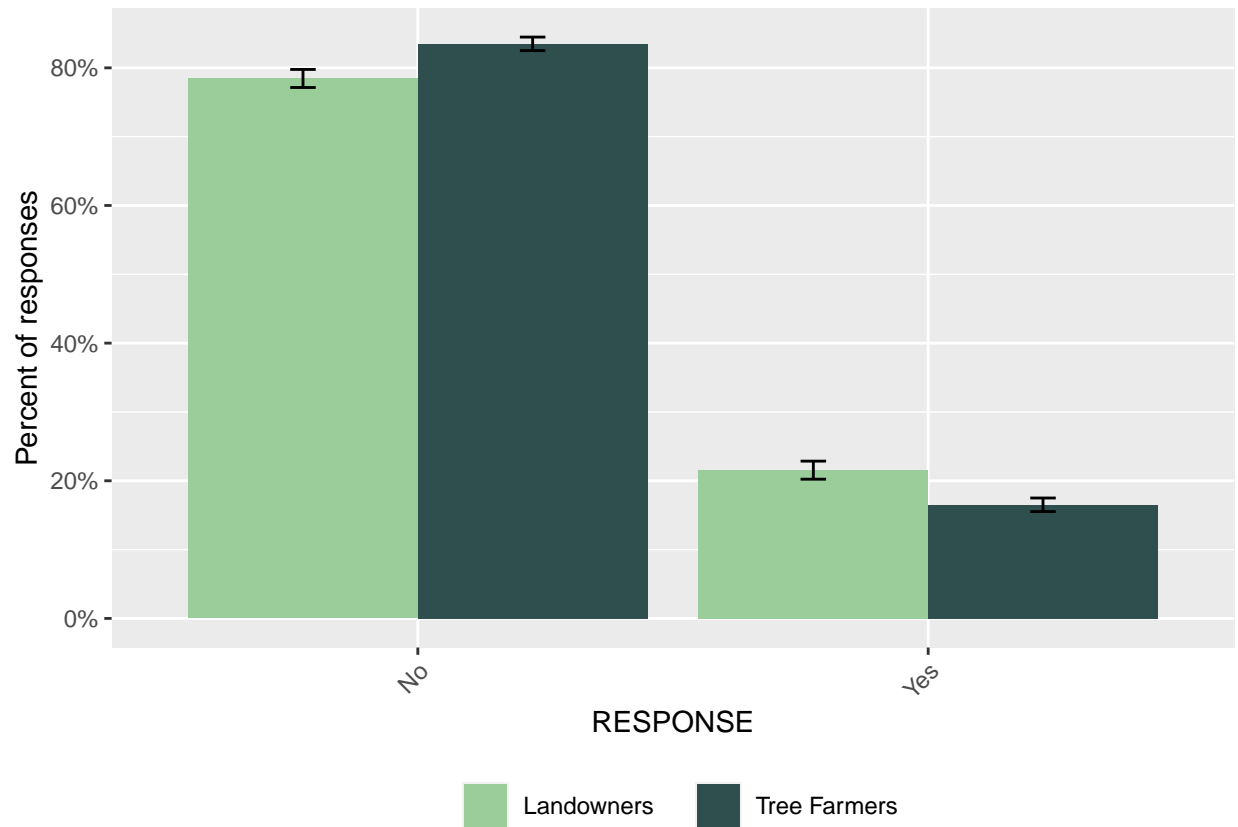
| | n |
|-----|-----|
| No | 663 |
| Yes | 321 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1008 |
| Yes | 415 |

TTM_FIRE_NEIGH

Which, if any, of the following do you see as potential challenges to using prescribed fire on your wooded land? My neighbors would dislike it if I used prescribed fire on my wooded land



Landowner totals

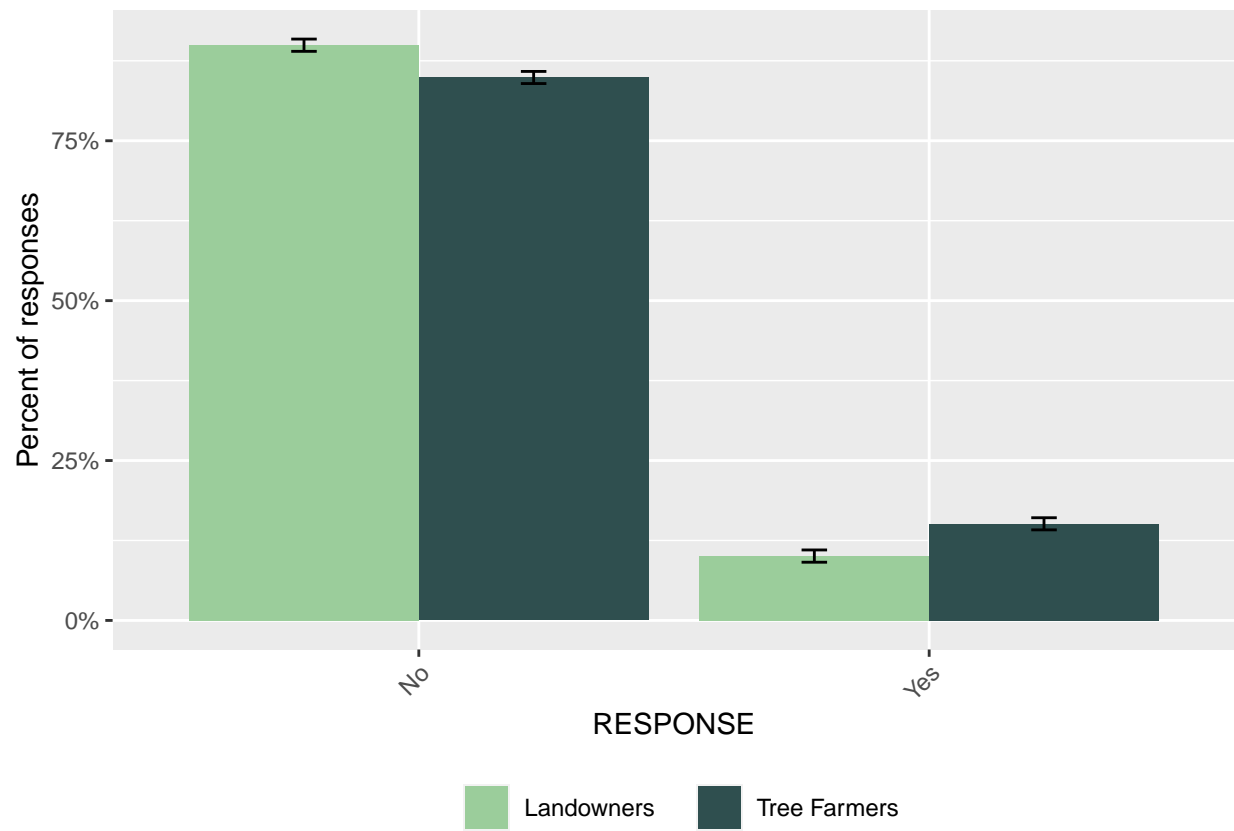
| | n |
|-----|-----|
| No | 772 |
| Yes | 212 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1188 |
| Yes | 235 |

TTM_FIRE_EXPENSIVE

Which, if any, of the following do you see as potential challenges to using prescribed fire on your wooded land? Prescribed fire is expensive



Landowner totals

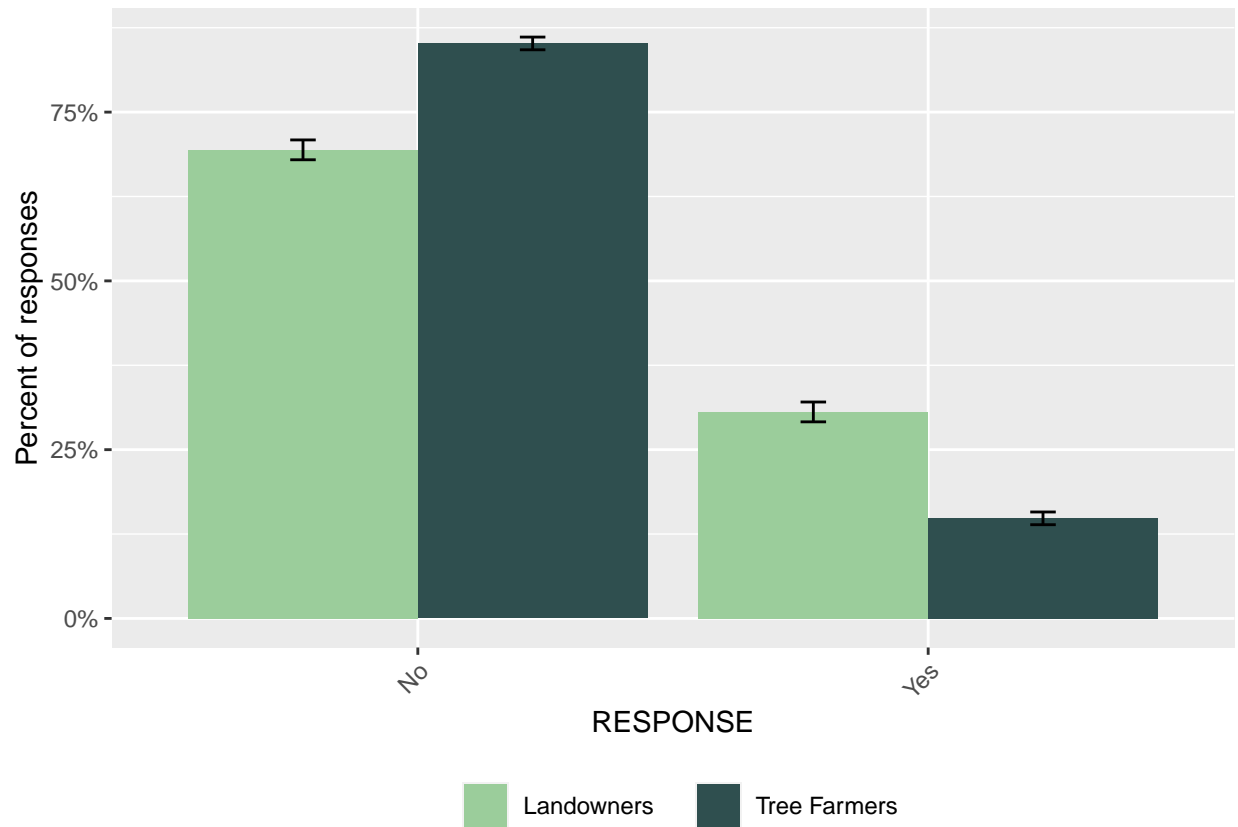
| | n |
|-----|-----|
| No | 885 |
| Yes | 99 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1208 |
| Yes | 215 |

TTM_FIRE_INFO

Which, if any, of the following do you see as potential challenges to using prescribed fire on your wooded land? I don't have enough information about prescribed fire



Landowner totals

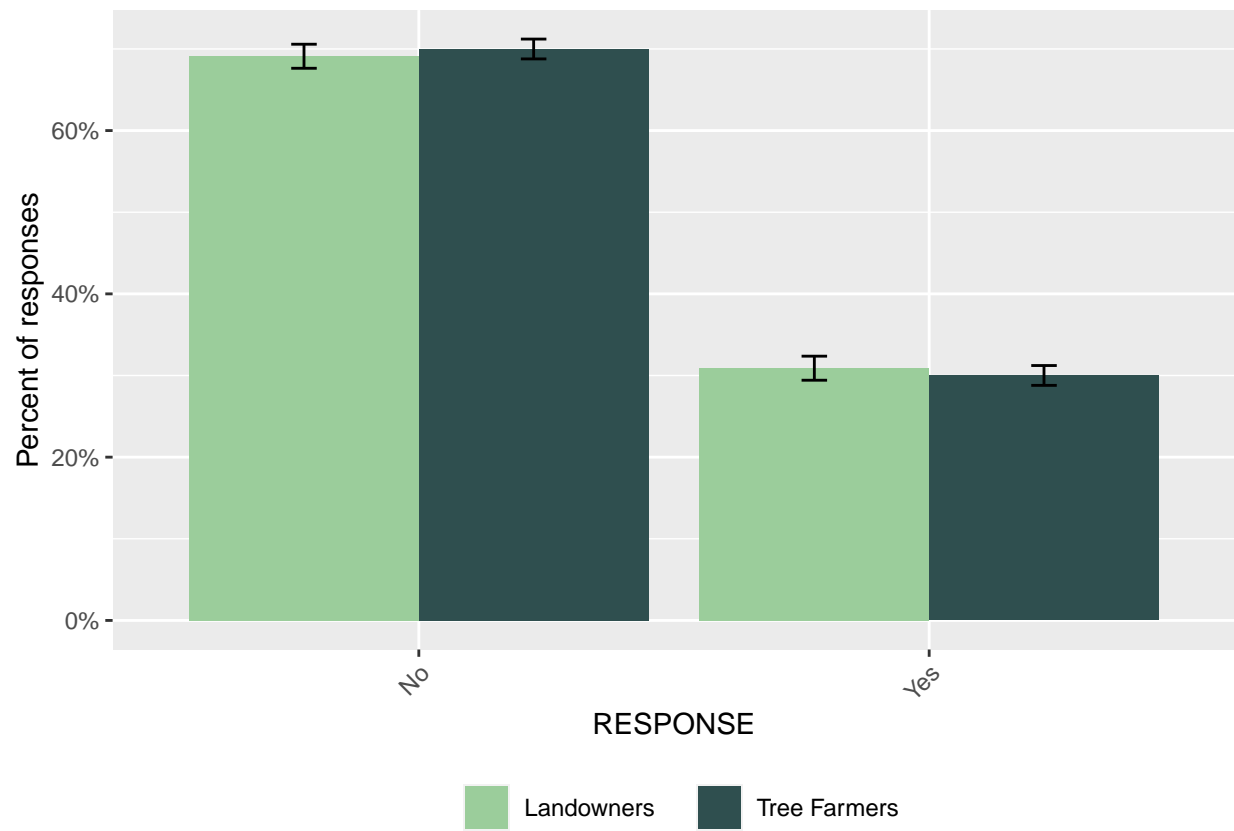
| | n |
|-----|-----|
| No | 683 |
| Yes | 301 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1212 |
| Yes | 211 |

TTM_FIRE_NONEED

Which, if any, of the following do you see as potential challenges to using prescribed fire on your wooded land? I don't need to use prescribed fire on my wooded land



Landowner totals

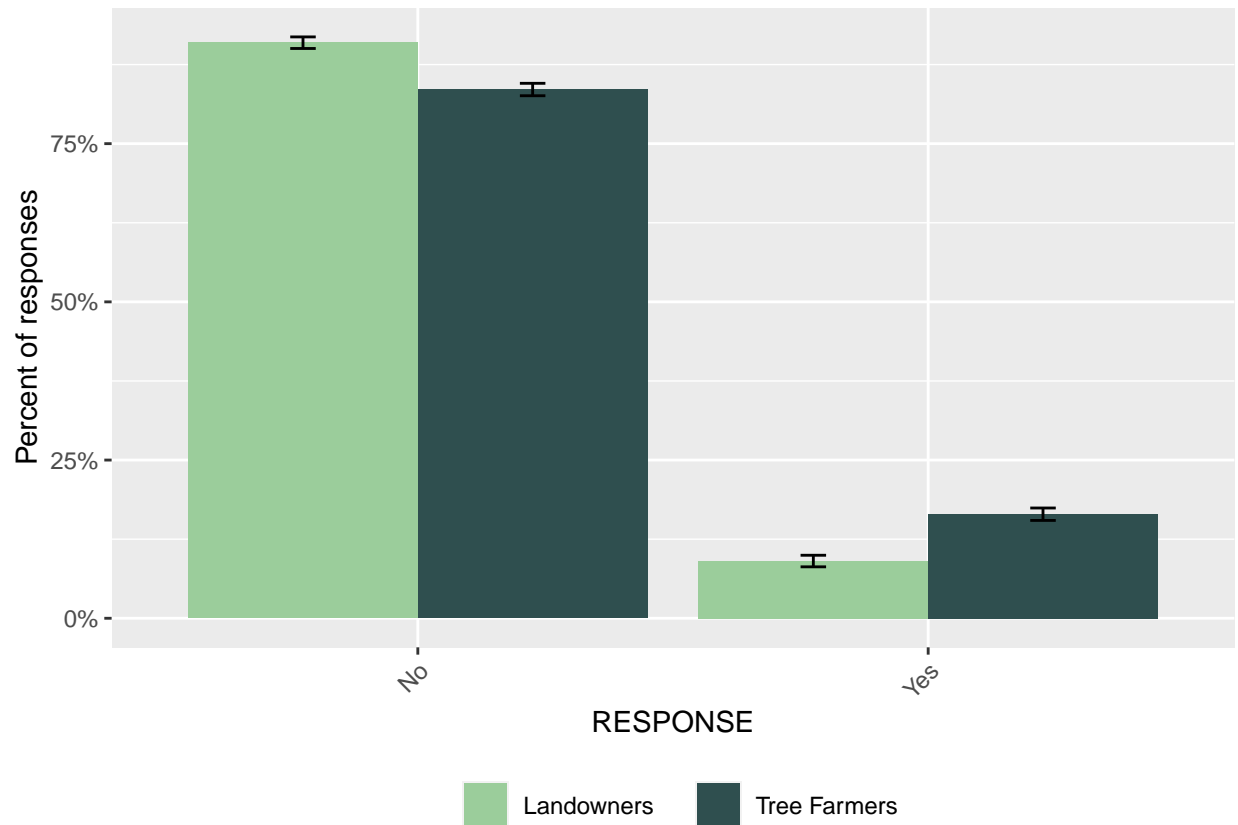
| | |
|-----|-----|
| | n |
| No | 680 |
| Yes | 304 |

Tree Farmer totals

| | |
|-----|-----|
| | n |
| No | 996 |
| Yes | 427 |

TTM_FIRE_NOCHALL

Which, if any, of the following do you see as potential challenges to using prescribed fire on your wooded land? None of the above



Landowner totals

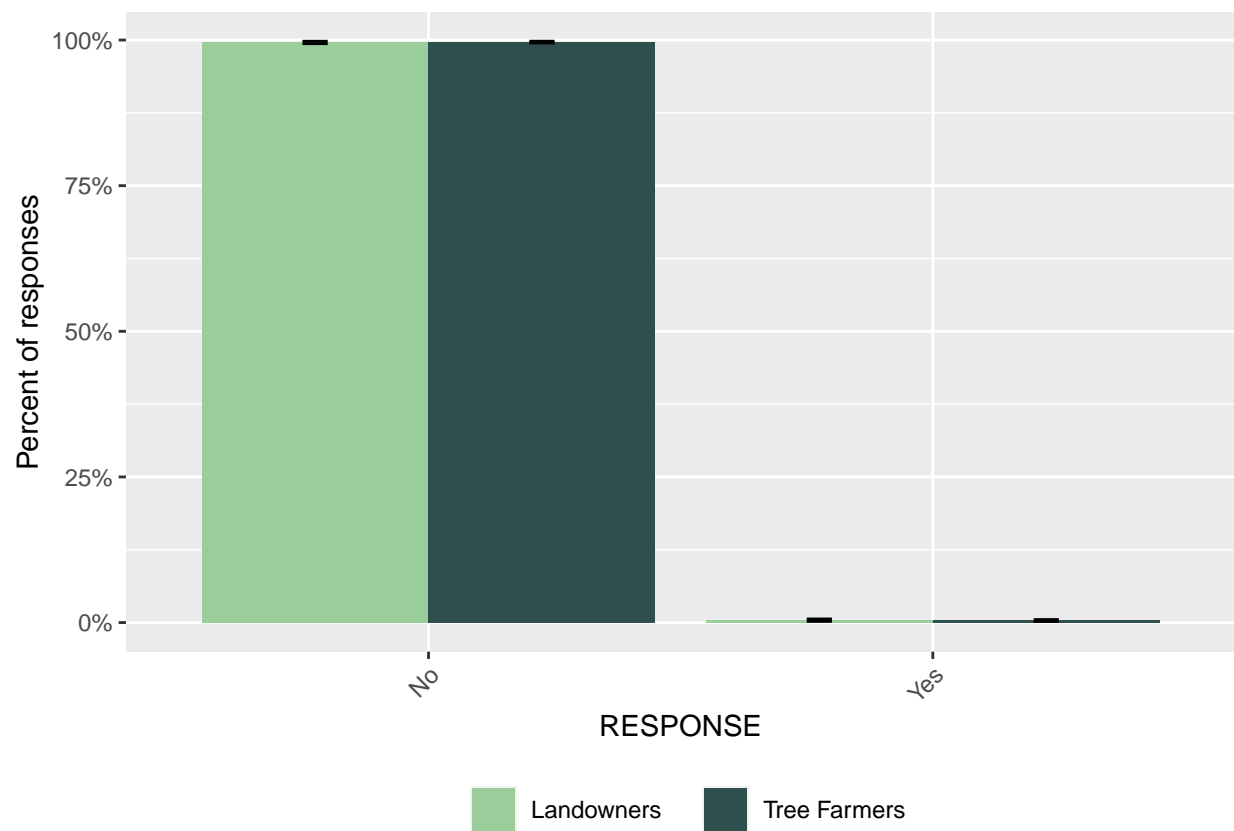
| | n |
|-----|-----|
| No | 895 |
| Yes | 89 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1189 |
| Yes | 234 |

LEAVES_EasternWhitePine

Please select the oak leaves by clicking on them. Eastern White Pine



Landowner totals

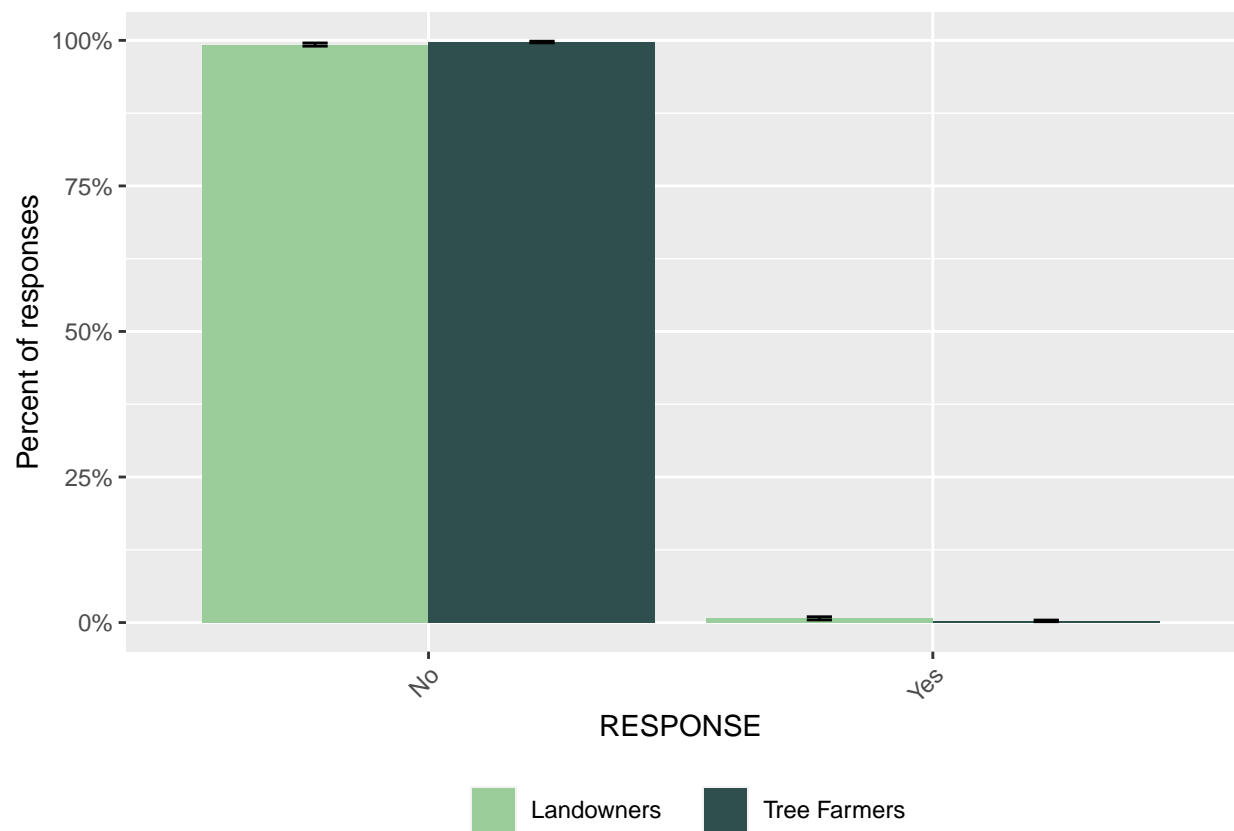
| | n |
|-----|-----|
| No | 965 |
| Yes | 4 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1411 |
| Yes | 5 |

LEAVES_ShortLeafPine

Please select the oak leaves by clicking on them. Short Leaf Pine



Landowner totals

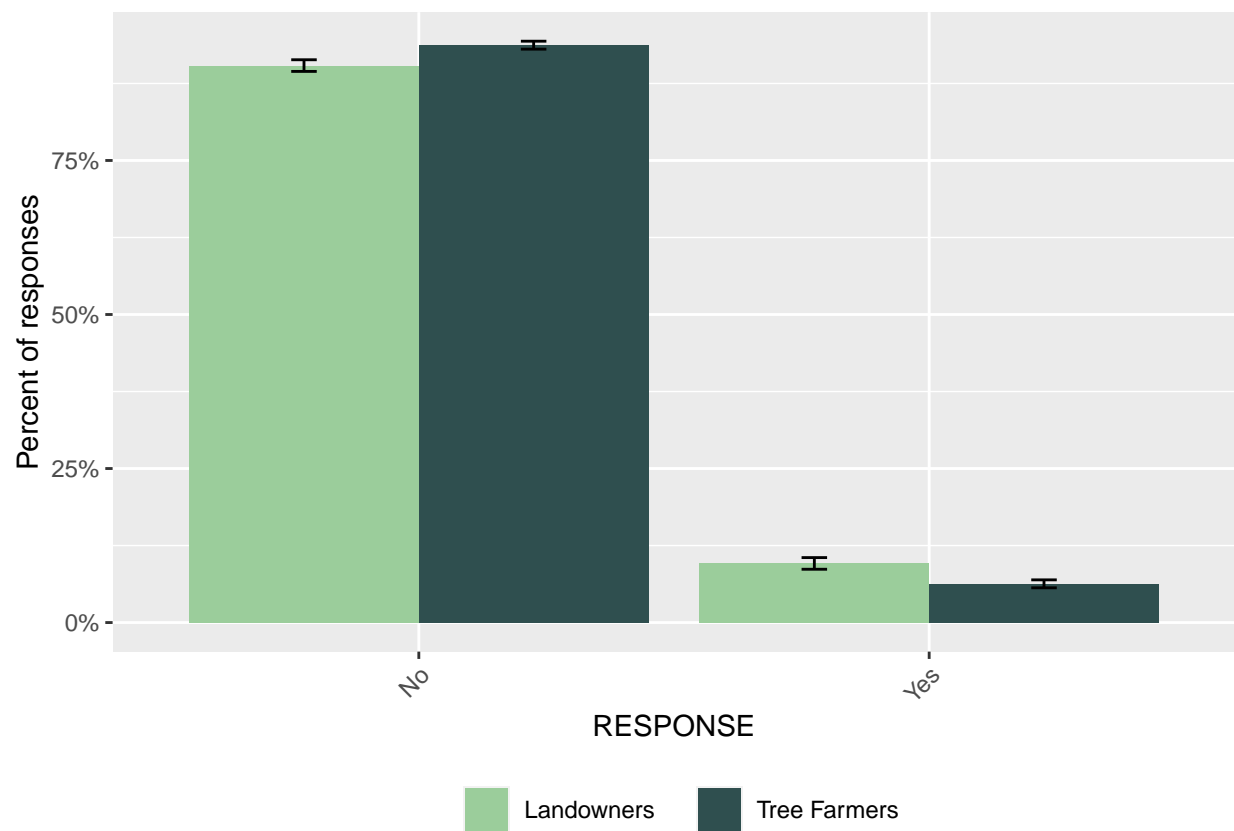
| | n |
|-----|-----|
| No | 962 |
| Yes | 7 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1412 |
| Yes | 4 |

LEAVES_RedMaple

Please select the oak leaves by clicking on them. Red Maple



Landowner totals

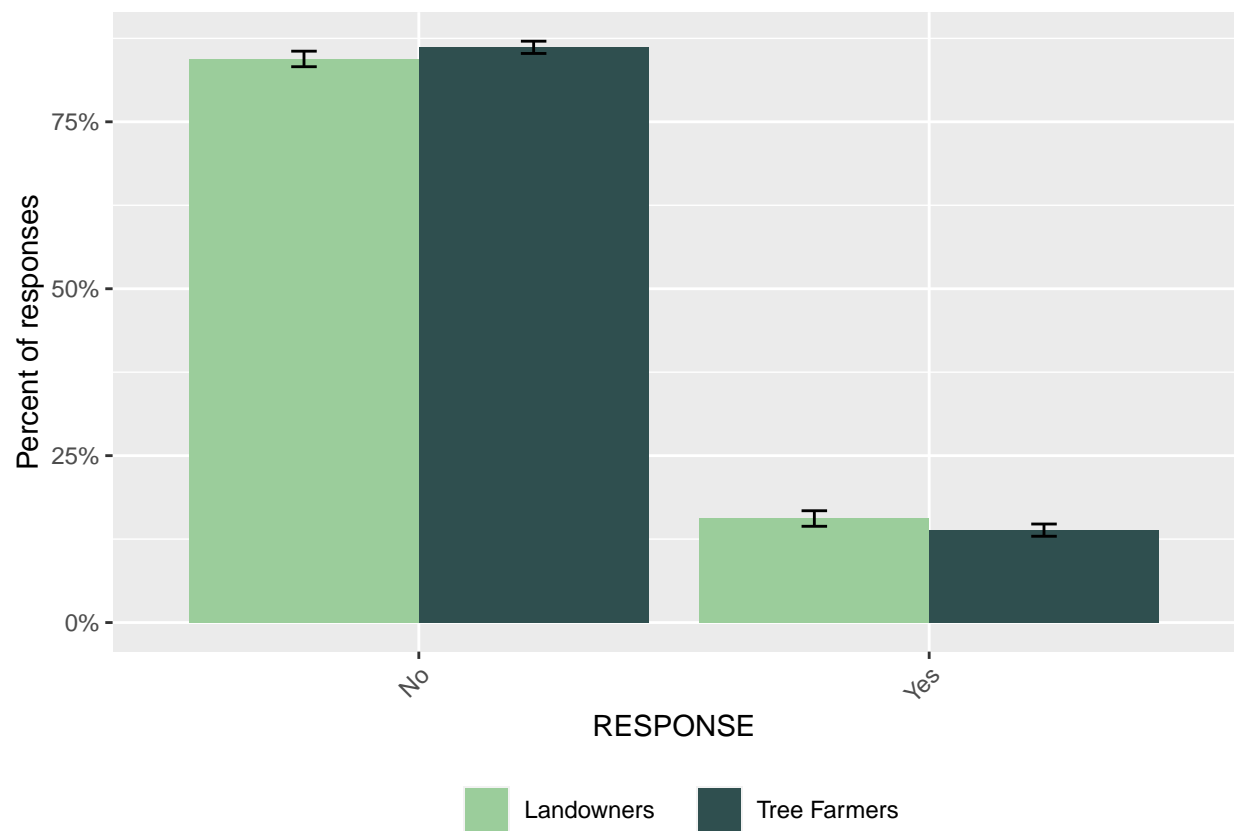
| | n |
|-----|-----|
| No | 876 |
| Yes | 93 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1327 |
| Yes | 89 |

LEAVES_SugarMaple

Please select the oak leaves by clicking on them. Sugar Maple



Landowner totals

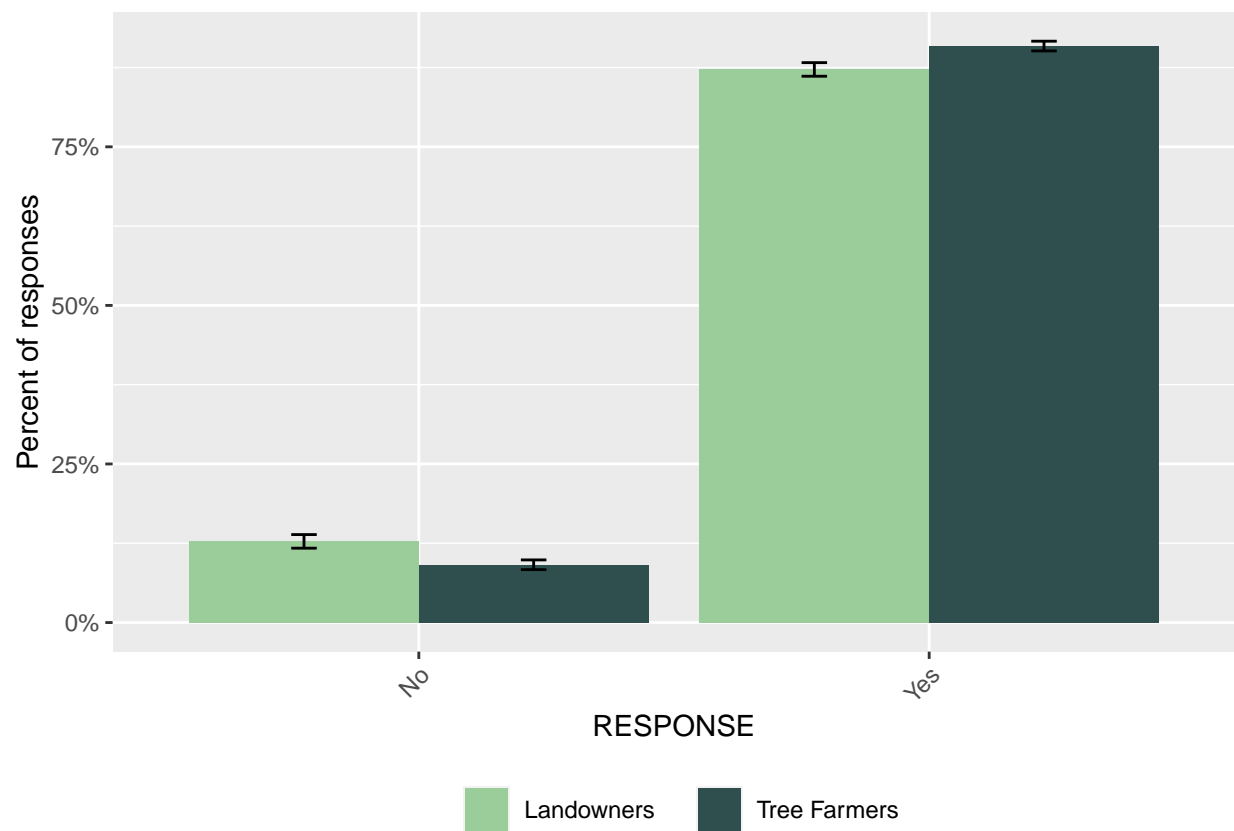
| | n |
|-----|-----|
| No | 818 |
| Yes | 151 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1220 |
| Yes | 196 |

LEAVES_RedOak

Please select the oak leaves by clicking on them. Red Oak



Landowner totals

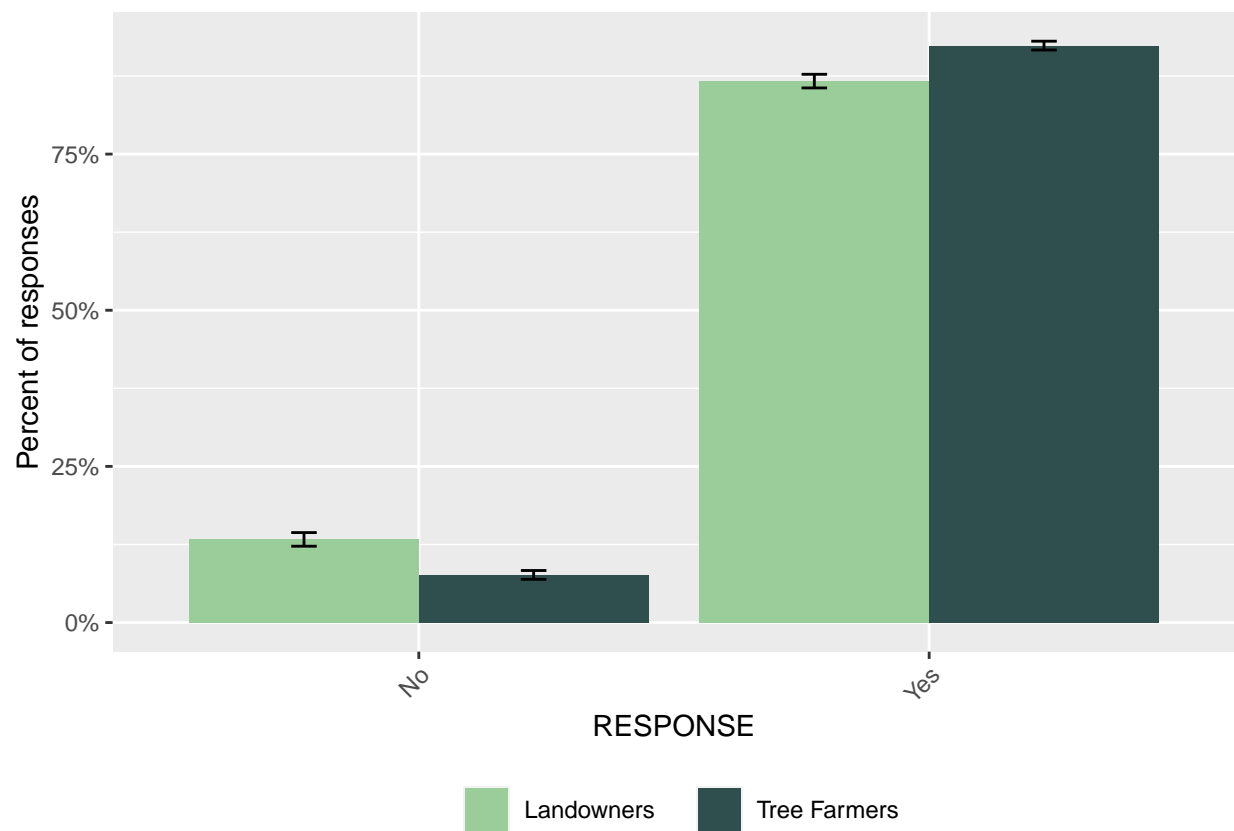
| | n |
|-----|-----|
| No | 124 |
| Yes | 845 |

Tree Farmer totals

| | n |
|-----|------|
| No | 129 |
| Yes | 1287 |

LEAVES_WhiteOak

Please select the oak leaves by clicking on them. White Oak



Landowner totals

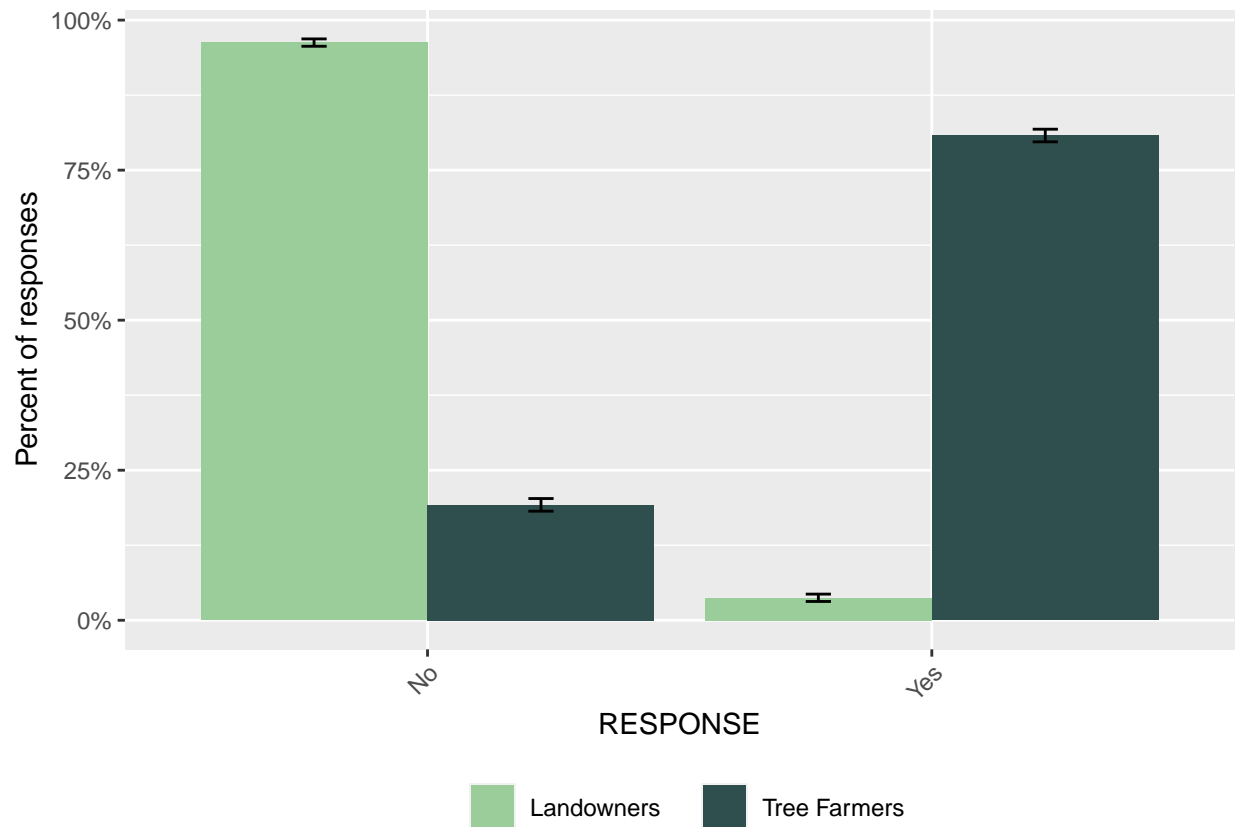
| | n |
|-----|-----|
| No | 129 |
| Yes | 840 |

Tree Farmer totals

| | n |
|-----|------|
| No | 108 |
| Yes | 1308 |

MEMBER_AFF

Are you a member of any of the following wildlife, forestry, or conservation organizations? American Tree Farm



Landowner totals

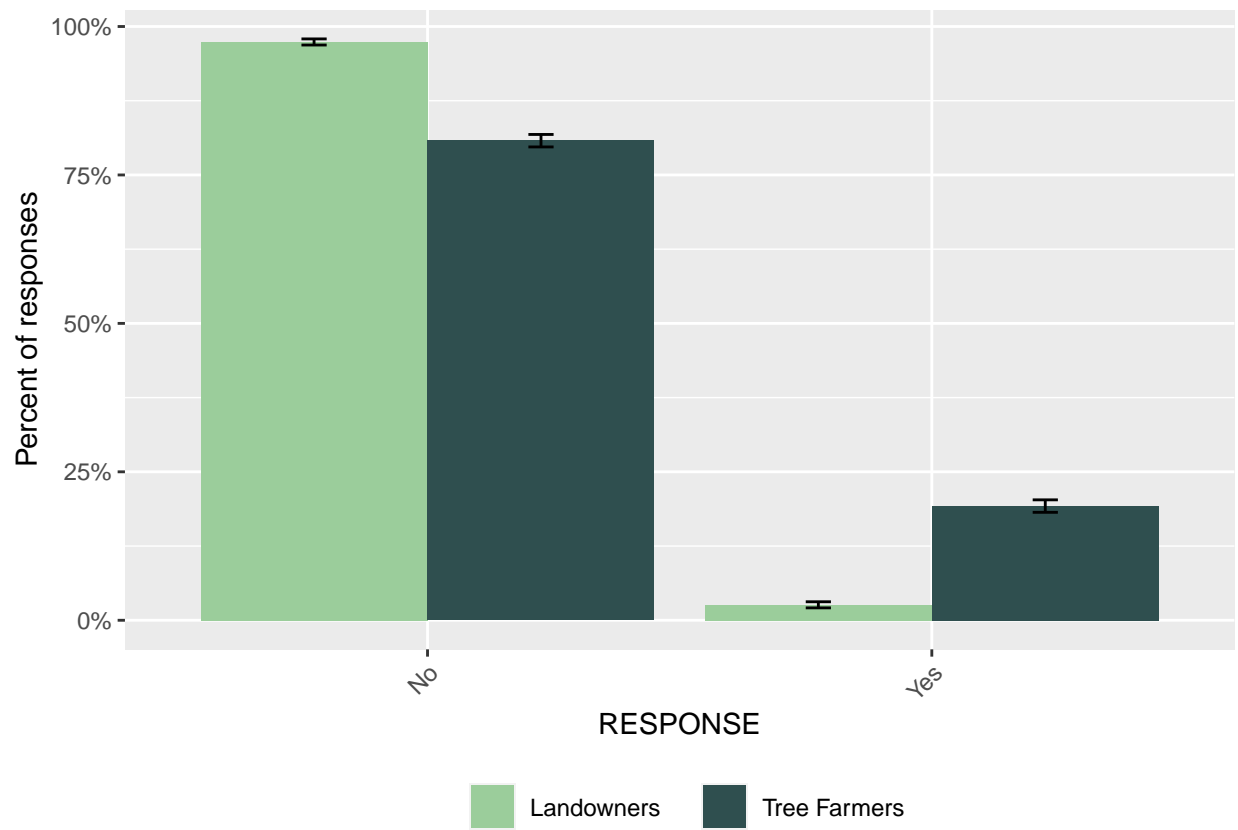
| | n |
|-----|-----|
| No | 925 |
| Yes | 36 |

Tree Farmer totals

| | n |
|-----|------|
| No | 270 |
| Yes | 1134 |

MEMBER_NWOA

Are you a member of any of the following wildlife, forestry, or conservation organizations? National Woodland Owners Association



Landowner totals

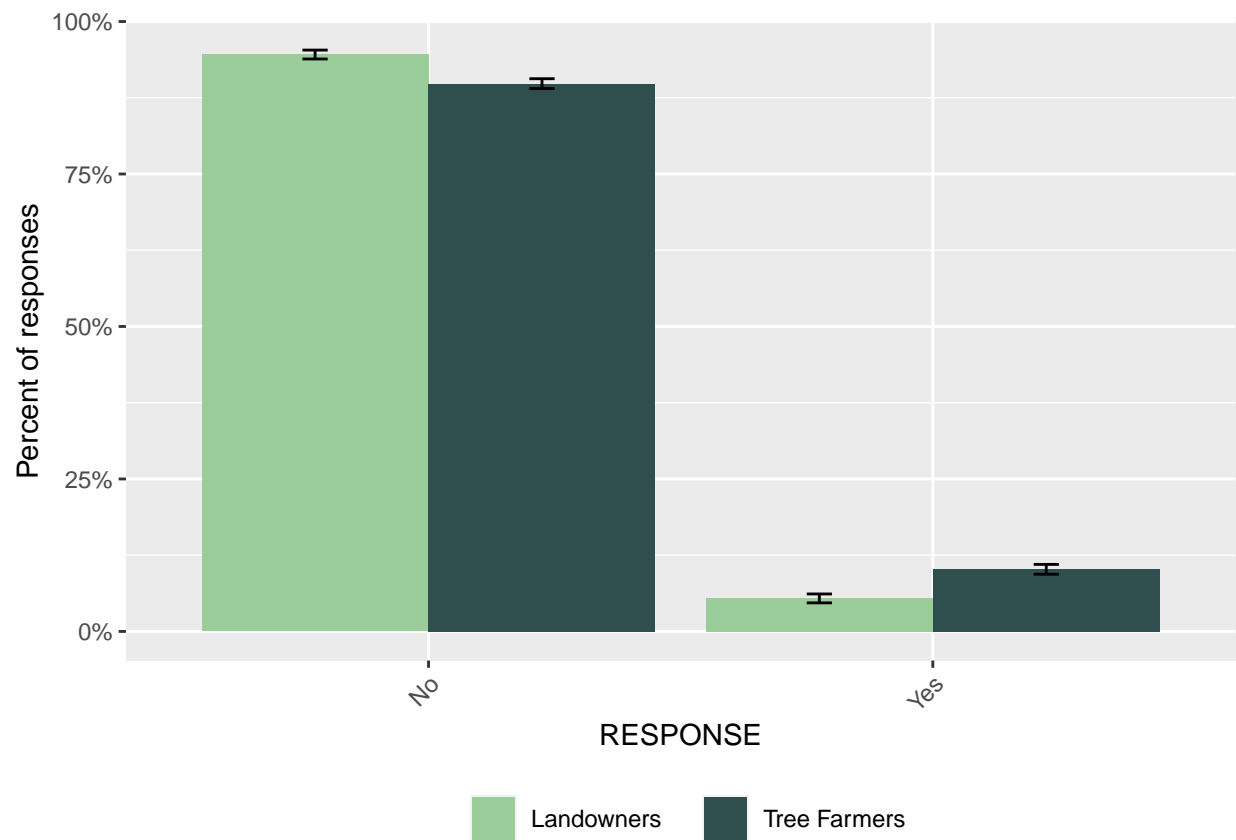
| | n |
|-----|-----|
| No | 936 |
| Yes | 25 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1134 |
| Yes | 270 |

MEMBER_NWTF

Are you a member of any of the following wildlife, forestry, or conservation organizations? National Wild Turkey Federation



Landowner totals

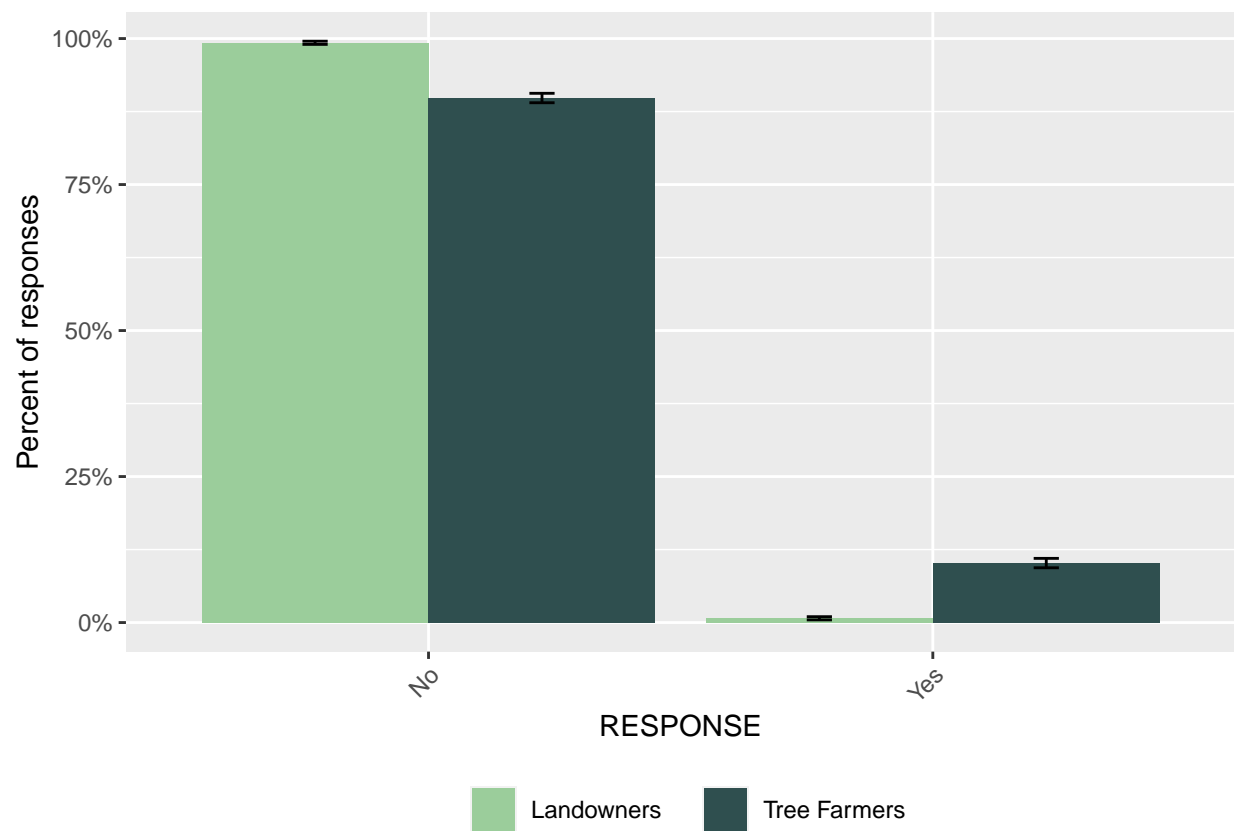
| | n |
|-----|-----|
| No | 909 |
| Yes | 52 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1261 |
| Yes | 143 |

MEMBER_AMFORESTS

Are you a member of any of the following wildlife, forestry, or conservation organizations? American Forests



Landowner totals

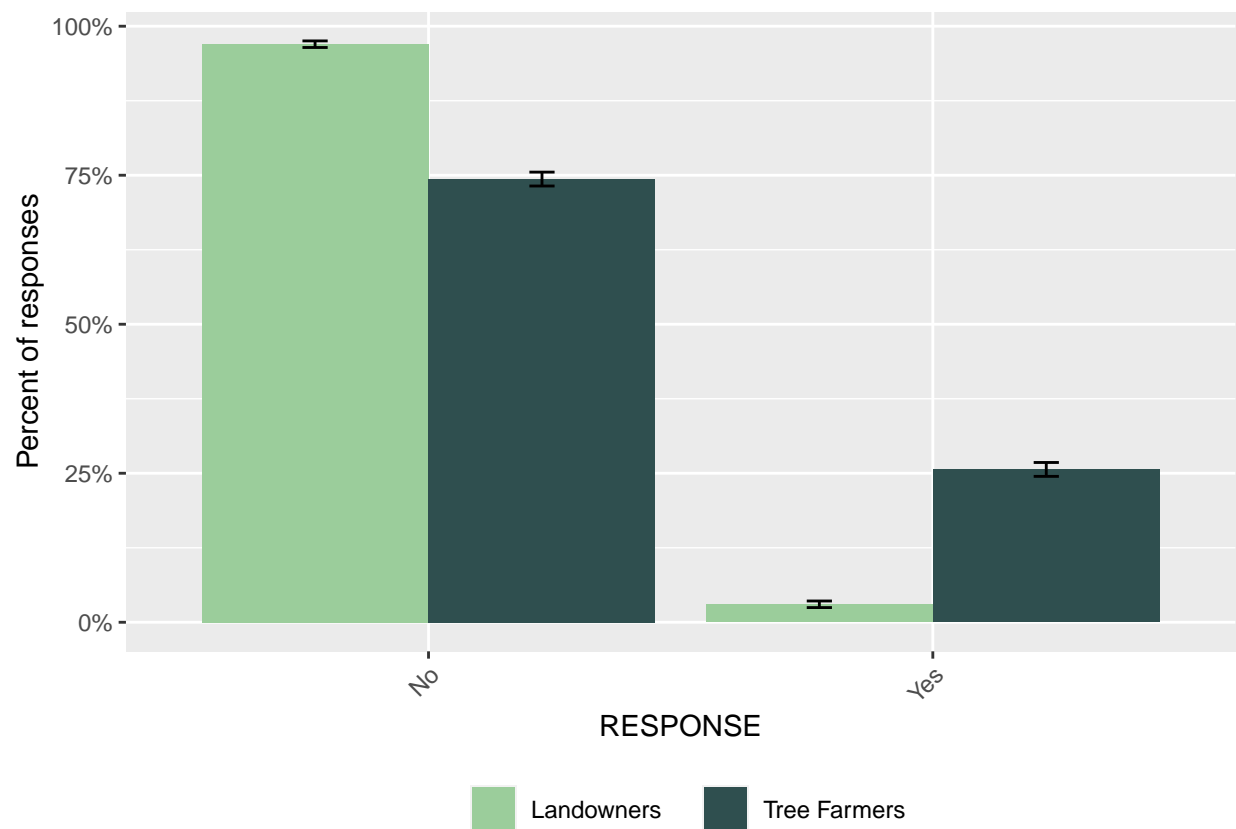
| | n |
|-----|-----|
| No | 954 |
| Yes | 7 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1261 |
| Yes | 143 |

MEMBER_FLA

Are you a member of any of the following wildlife, forestry, or conservation organizations? Forest Landowners Association



Landowner totals

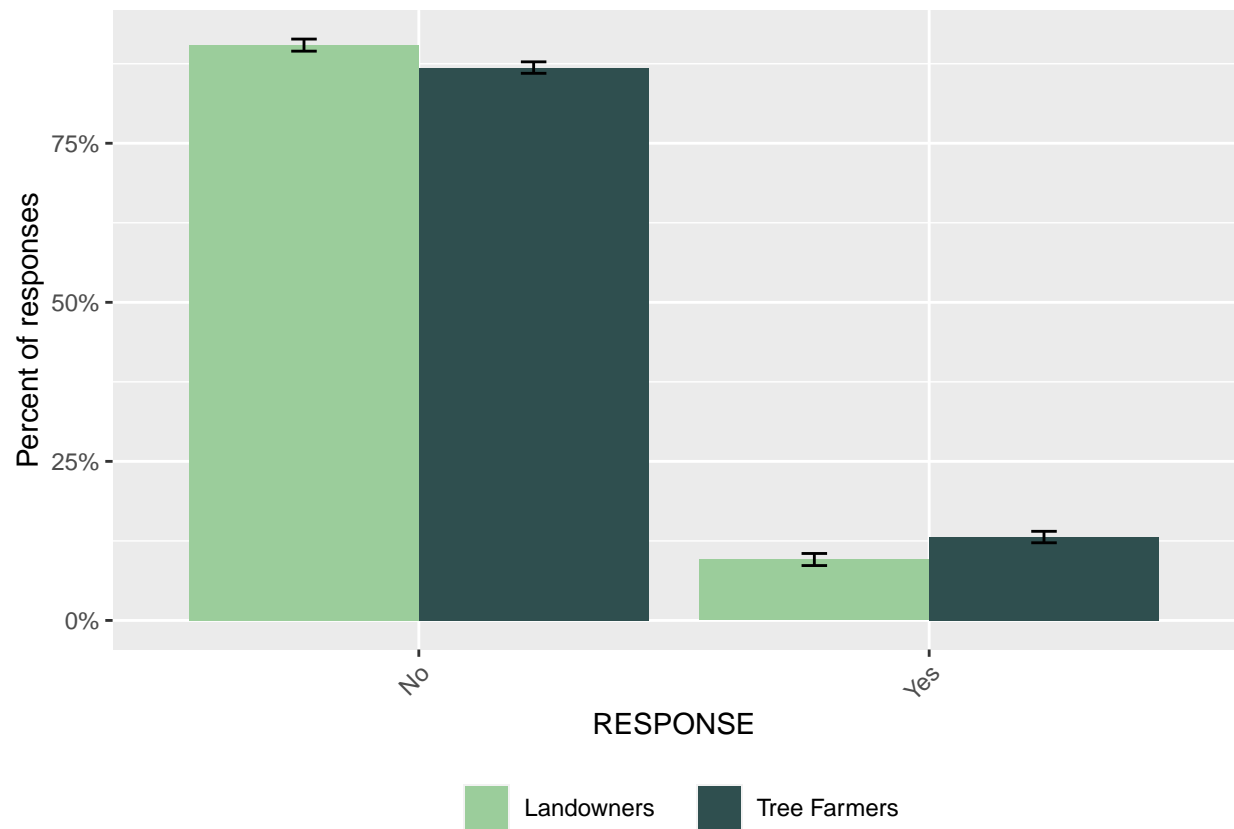
| | n |
|-----|-----|
| No | 932 |
| Yes | 29 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1044 |
| Yes | 360 |

MEMBER_TNC

Are you a member of any of the following wildlife, forestry, or conservation organizations? The Nature Conservancy



Landowner totals

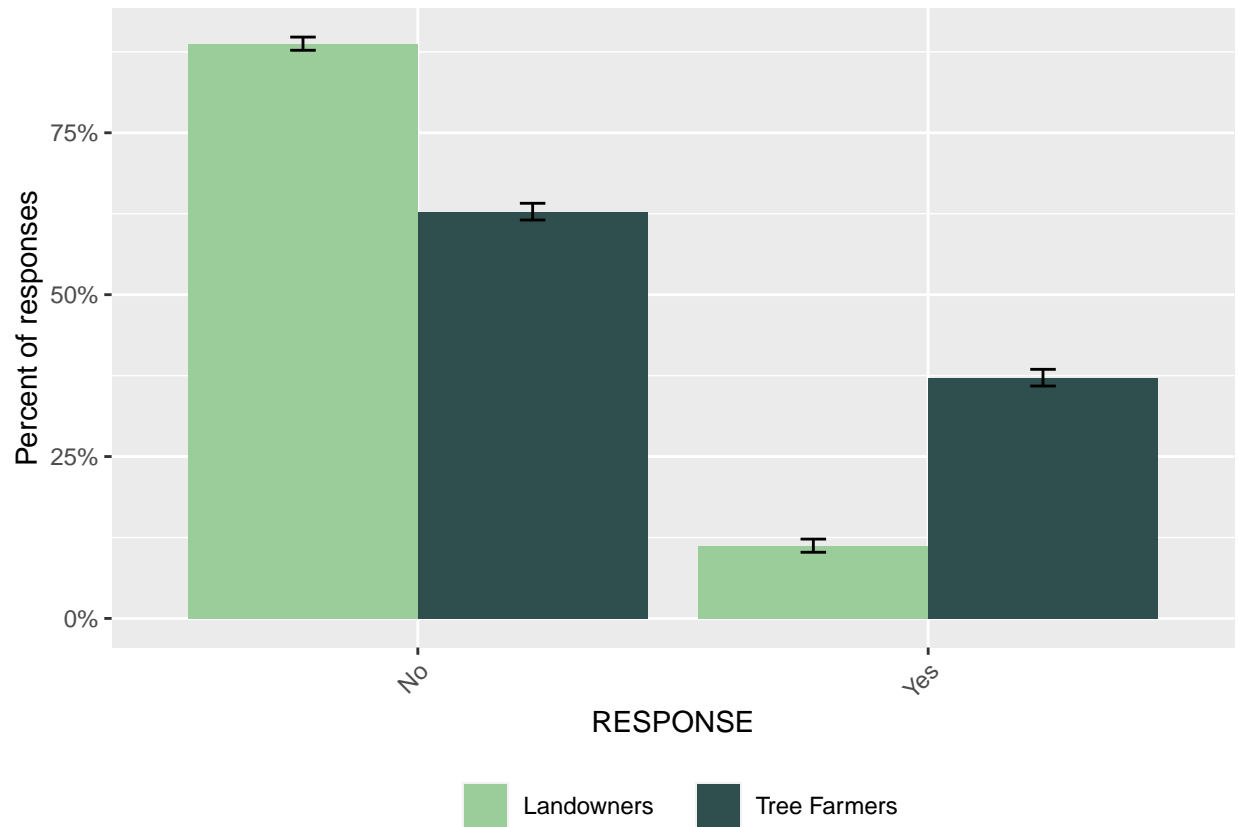
| | |
|-----|-----|
| | n |
| No | 869 |
| Yes | 92 |

Tree Farmer totals

| | |
|-----|------|
| | n |
| No | 1220 |
| Yes | 184 |

MEMBER_LOCAL

Are you a member of any of the following wildlife, forestry, or conservation organizations? Local wildlife, forestry, or conservation organization



Landowner totals

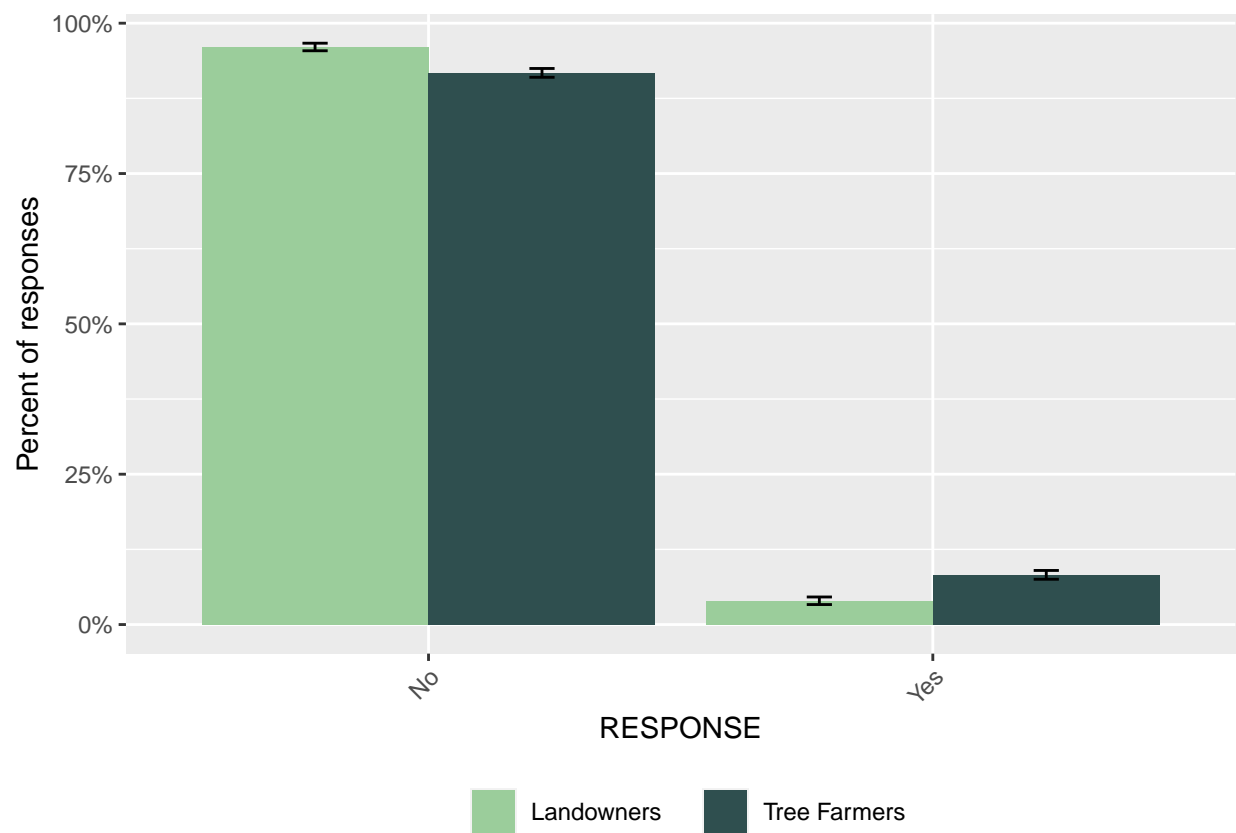
| | n |
|-----|-----|
| No | 853 |
| Yes | 108 |

Tree Farmer totals

| | n |
|-----|-----|
| No | 882 |
| Yes | 522 |

MEMBER_DU

Are you a member of any of the following wildlife, forestry, or conservation organizations? Ducks Unlimited



Landowner totals

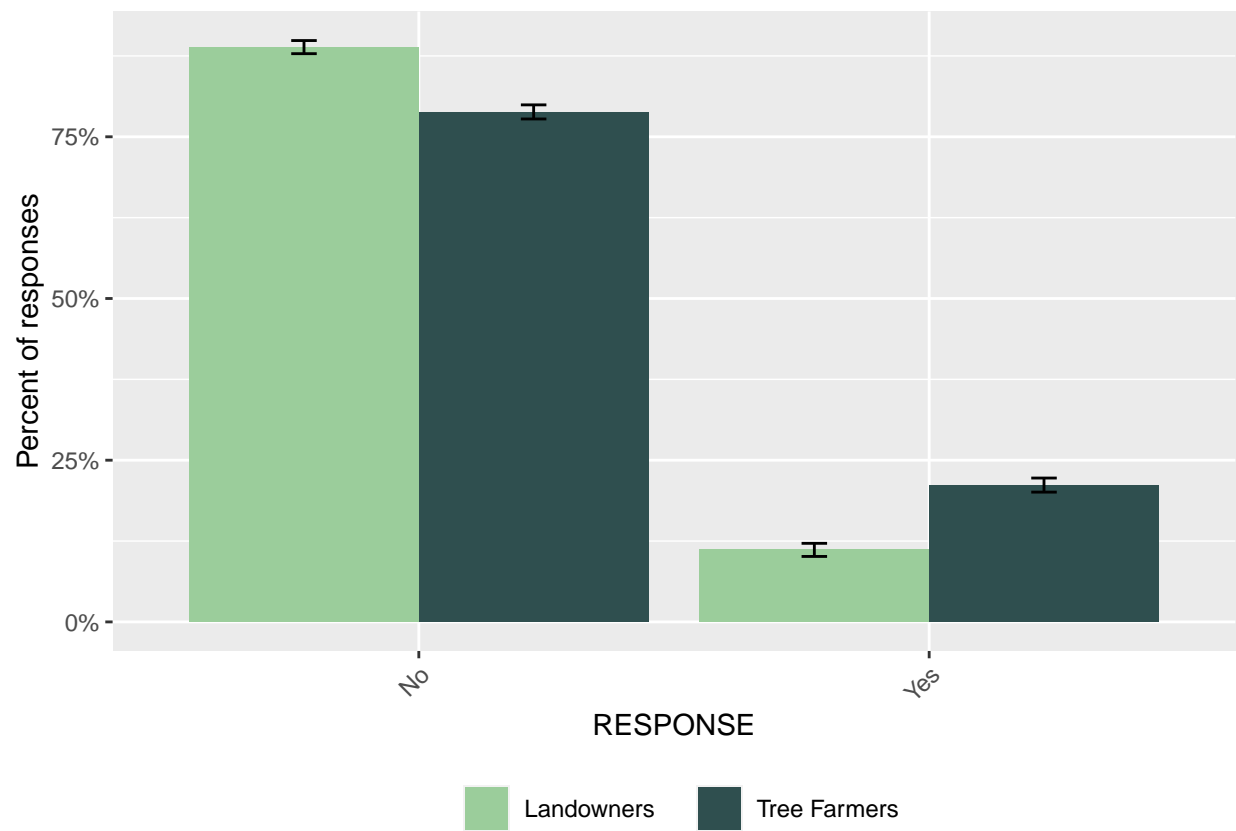
| | |
|-----|-----|
| | n |
| No | 923 |
| Yes | 38 |

Tree Farmer totals

| | |
|-----|------|
| | n |
| No | 1288 |
| Yes | 116 |

MEMBER_OTH

Are you a member of any of the following wildlife, forestry, or conservation organizations? Other (please specify)



Landowner totals

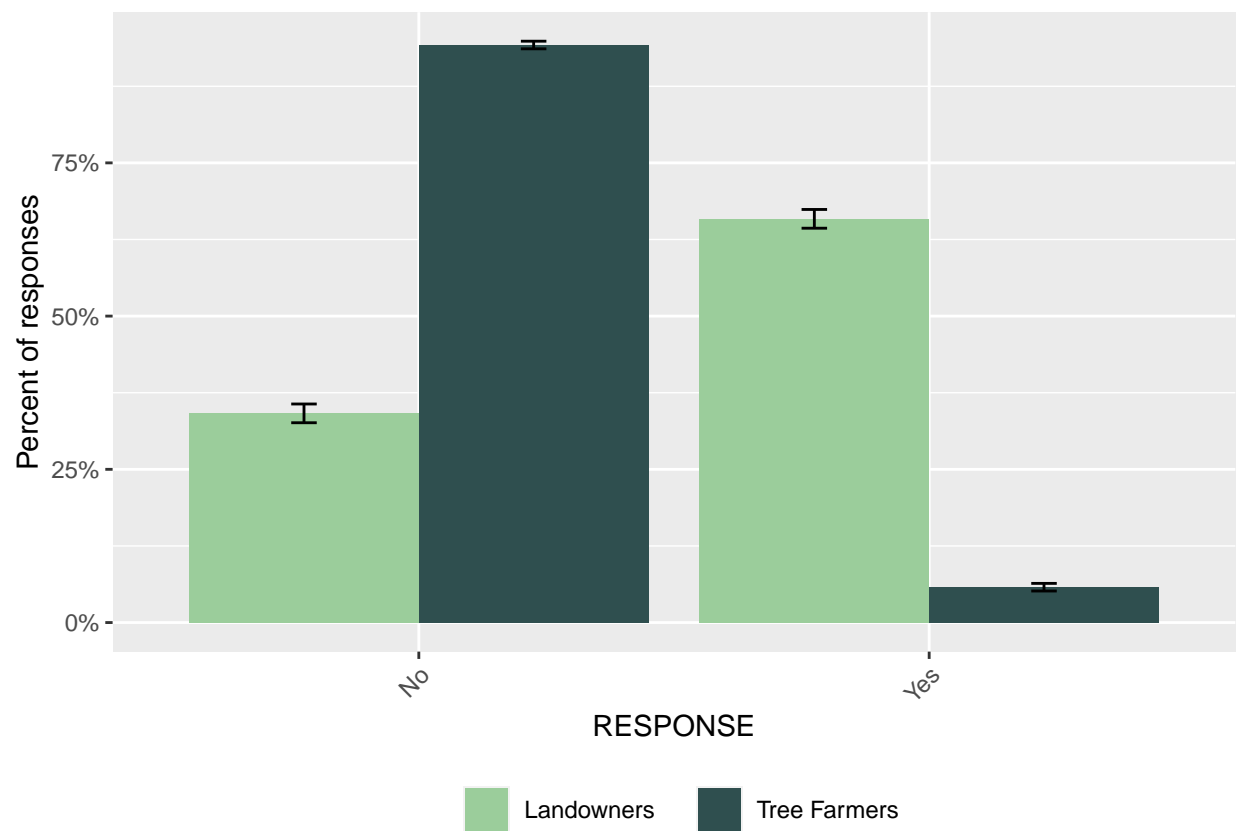
| | n |
|-----|-----|
| No | 854 |
| Yes | 107 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1107 |
| Yes | 297 |

MEMBER_NONE

Are you a member of any of the following wildlife, forestry, or conservation organizations? None of the above



Landowner totals

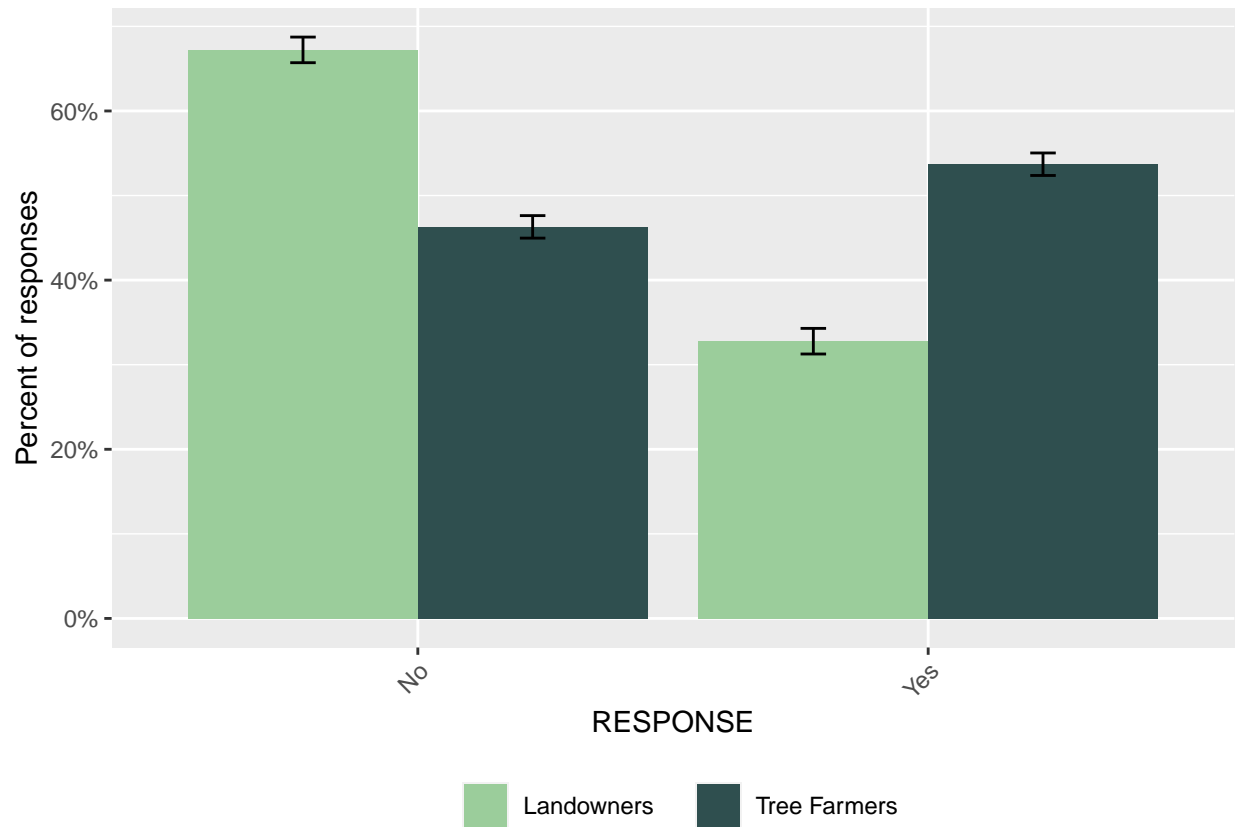
| | |
|-----|-----|
| | n |
| No | 328 |
| Yes | 633 |

Tree Farmer totals

| | |
|-----|------|
| | n |
| No | 1323 |
| Yes | 81 |

COOP_FEDERAL

Which, if any, of the following organizations would you be interested in cooperating with to manage your wooded land in the future? Federal government forestry or wildlife agency, like those within USDA



Landowner totals

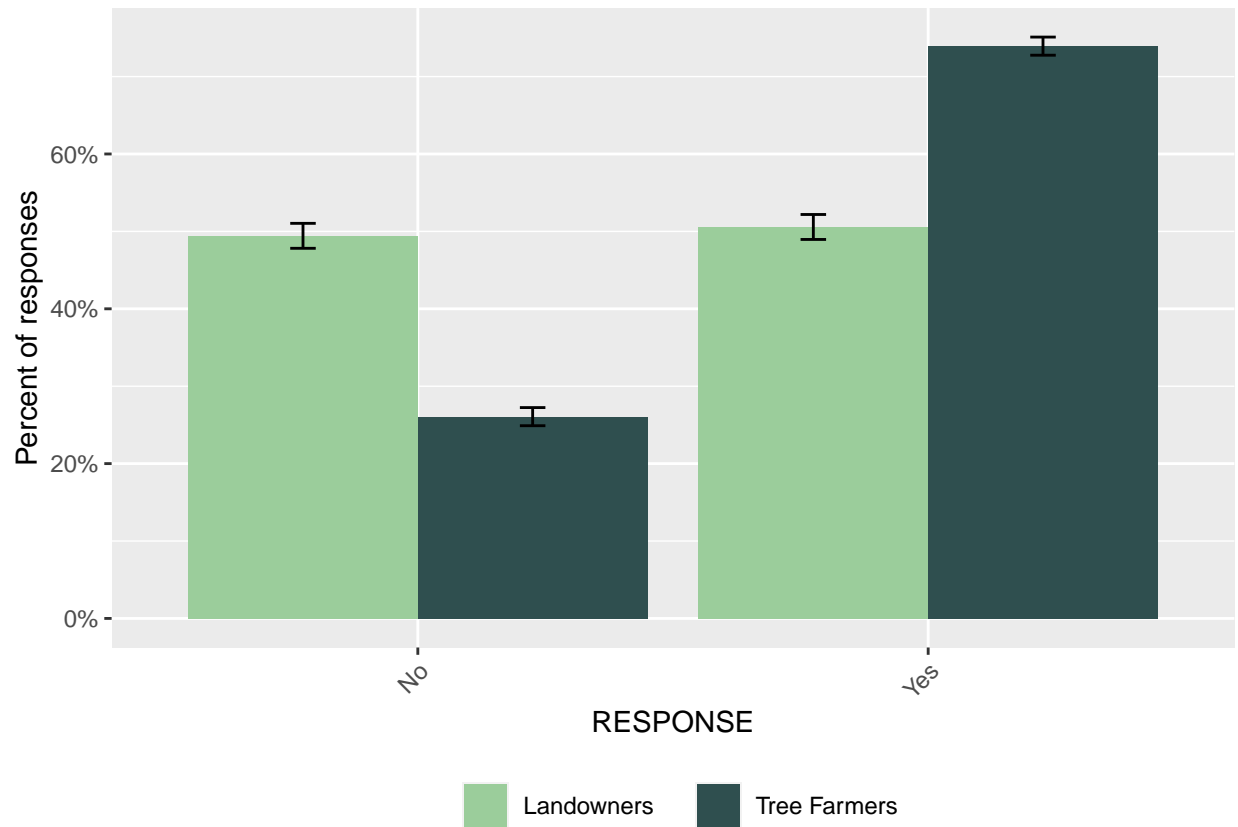
| | n |
|-----|-----|
| No | 646 |
| Yes | 315 |

Tree Farmer totals

| | n |
|-----|-----|
| No | 650 |
| Yes | 754 |

COOP_STATE

Which, if any, of the following organizations would you be interested in cooperating with to manage your wooded land in the future? State government forestry or wildlife agency



Landowner totals

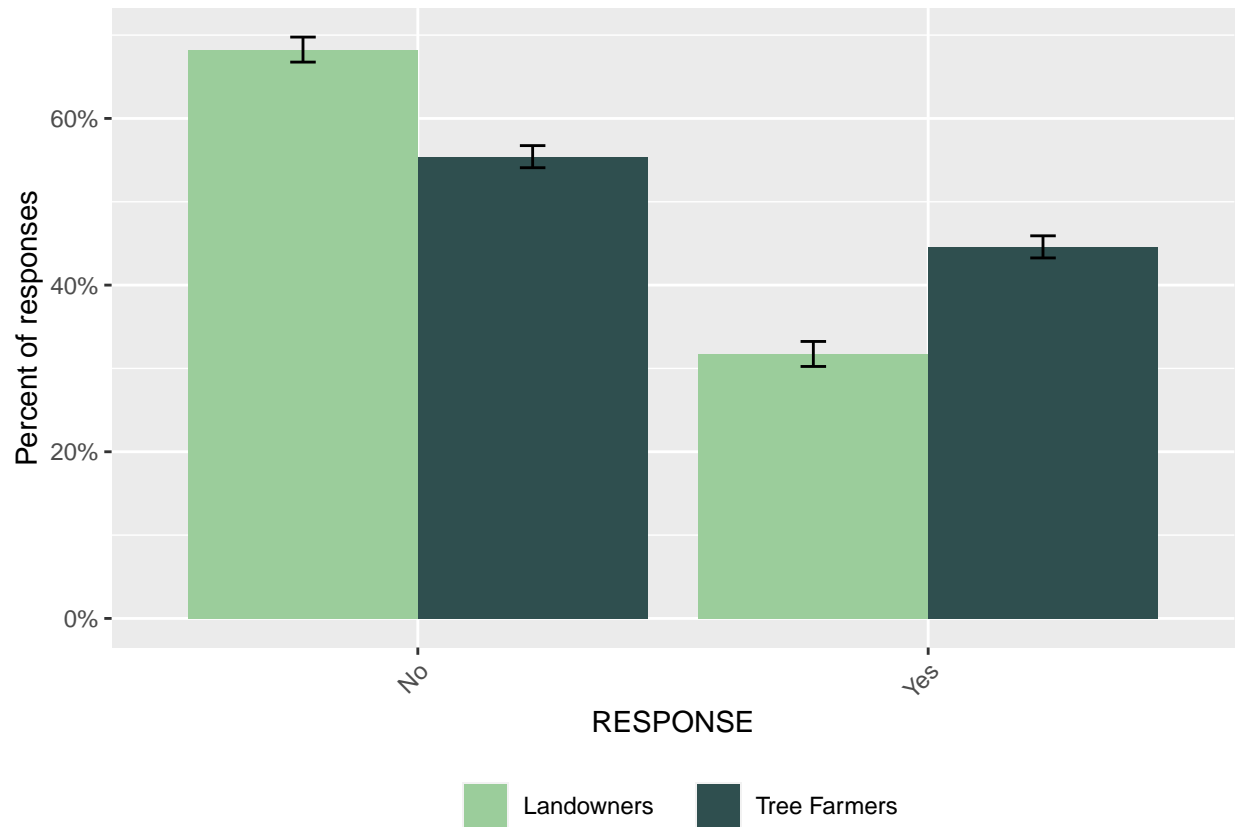
| | n |
|-----|-----|
| No | 475 |
| Yes | 486 |

Tree Farmer totals

| | n |
|-----|------|
| No | 366 |
| Yes | 1038 |

COOP_LOCAL

Which, if any, of the following organizations would you be interested in cooperating with to manage your wooded land in the future? Local government forestry or wildlife agency



Landowner totals

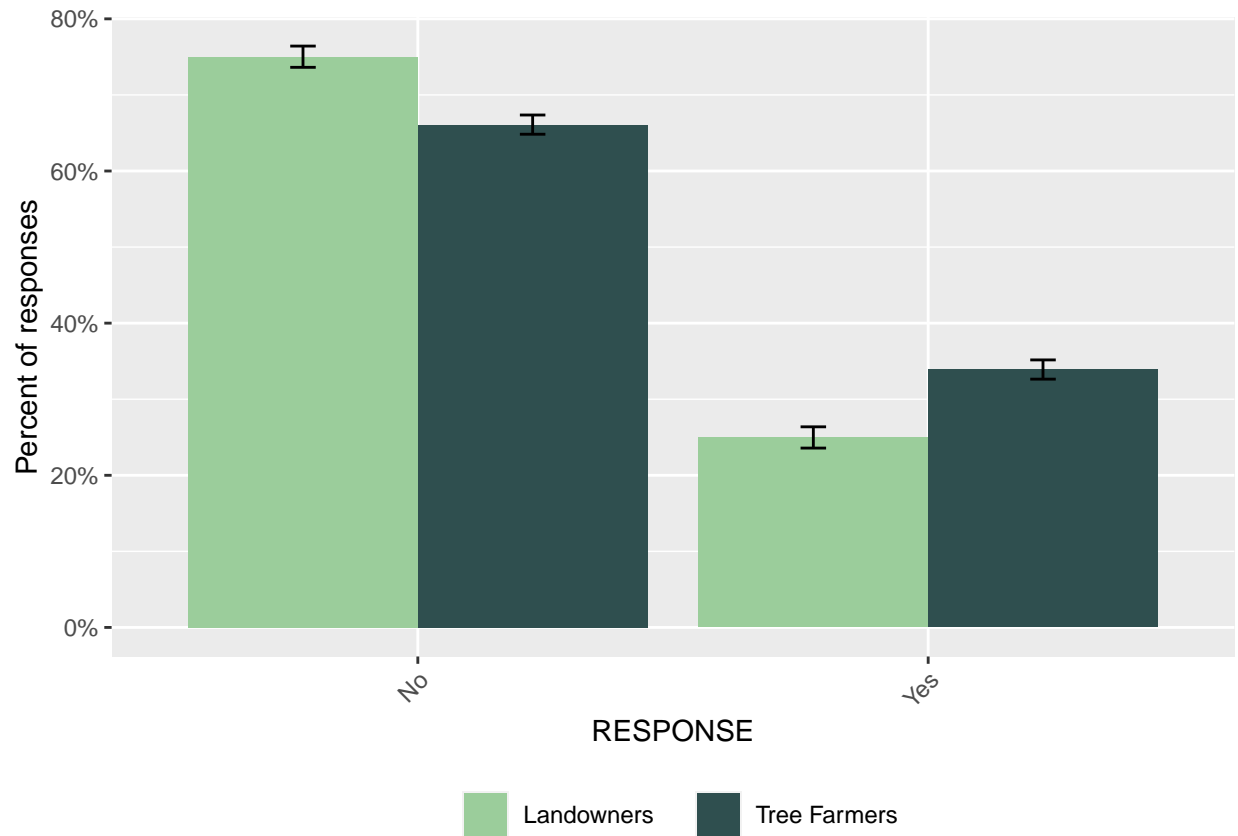
| | n |
|-----|-----|
| No | 656 |
| Yes | 305 |

Tree Farmer totals

| | n |
|-----|-----|
| No | 778 |
| Yes | 626 |

COOP_NONPROFIT

Which, if any, of the following organizations would you be interested in cooperating with to manage your wooded land in the future? Non-governmental forestry or wildlife organization



Landowner totals

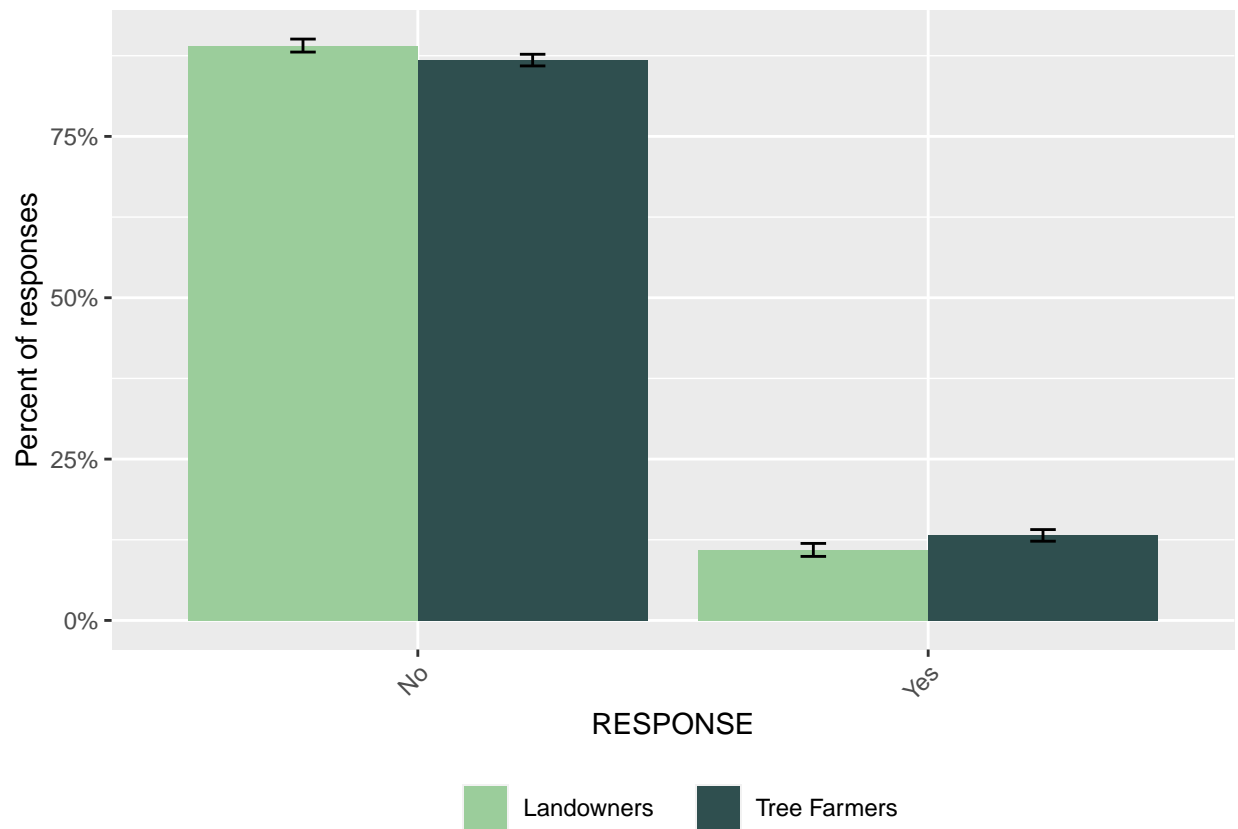
| | n |
|-----|-----|
| No | 721 |
| Yes | 240 |

Tree Farmer totals

| | n |
|-----|-----|
| No | 928 |
| Yes | 476 |

COOP_HUNT

Which, if any, of the following organizations would you be interested in cooperating with to manage your wooded land in the future? Local hunting and fishing group



Landowner totals

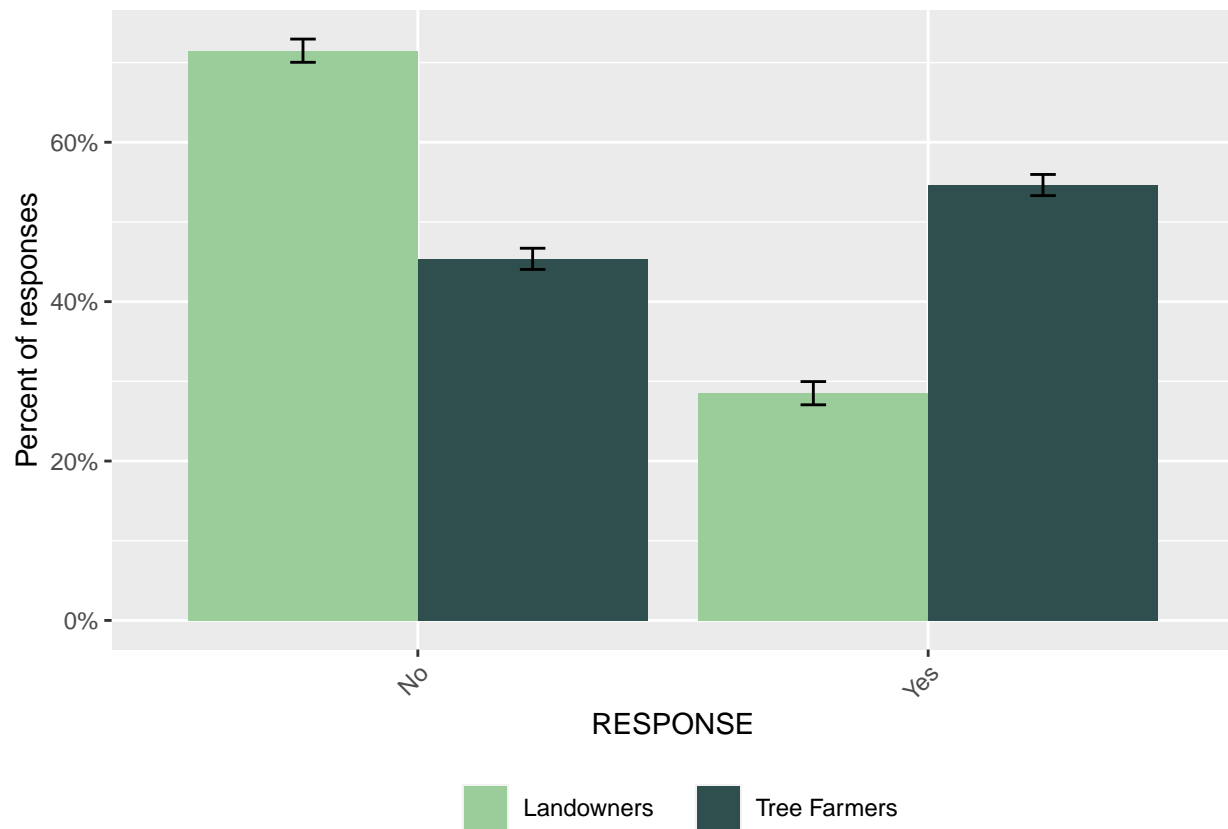
| | n |
|-----|-----|
| No | 856 |
| Yes | 105 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1219 |
| Yes | 185 |

COOP_PRIVATE

Which, if any, of the following organizations would you be interested in cooperating with to manage your wooded land in the future? Private, consulting forestry or wildlife professionals



Landowner totals

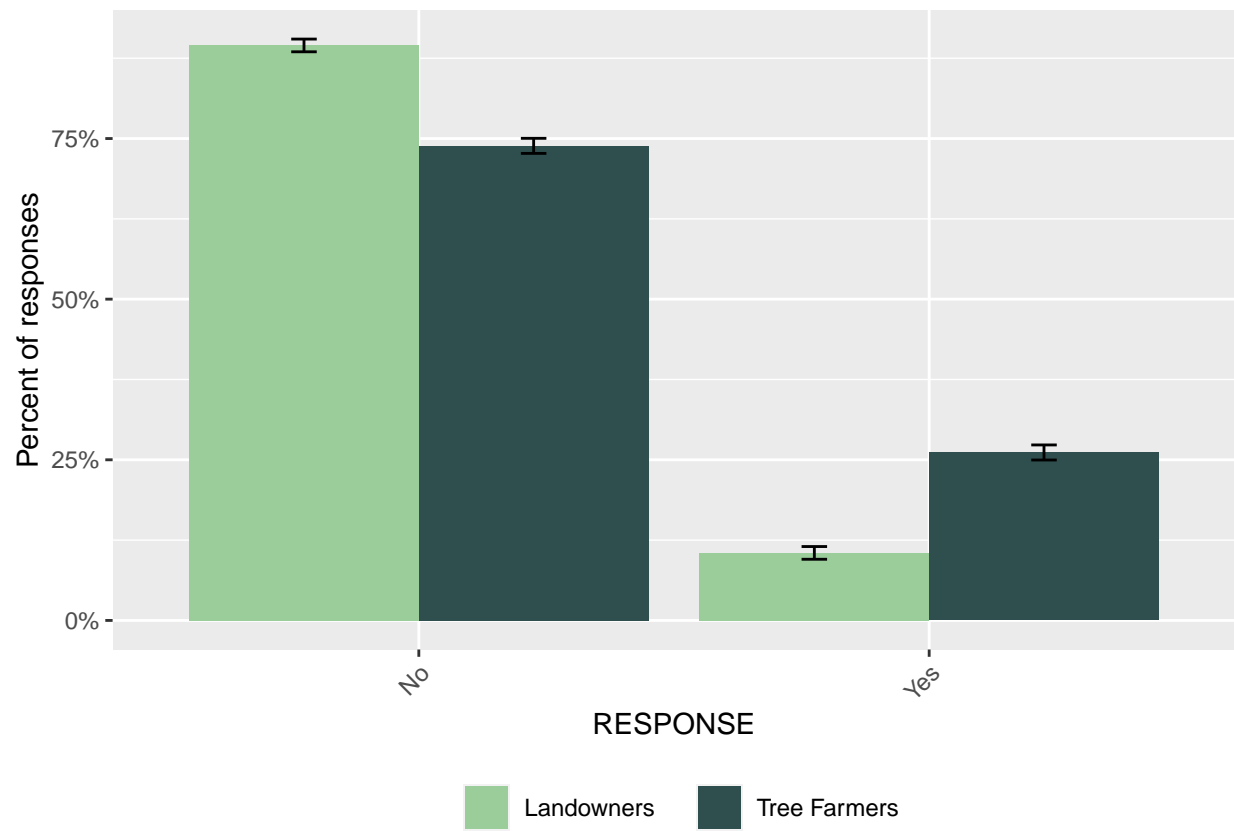
| | n |
|-----|-----|
| No | 687 |
| Yes | 274 |

Tree Farmer totals

| | n |
|-----|-----|
| No | 637 |
| Yes | 767 |

COOP_INDUSTRY

Which, if any, of the following organizations would you be interested in cooperating with to manage your wooded land in the future? Forest products companies



Landowner totals

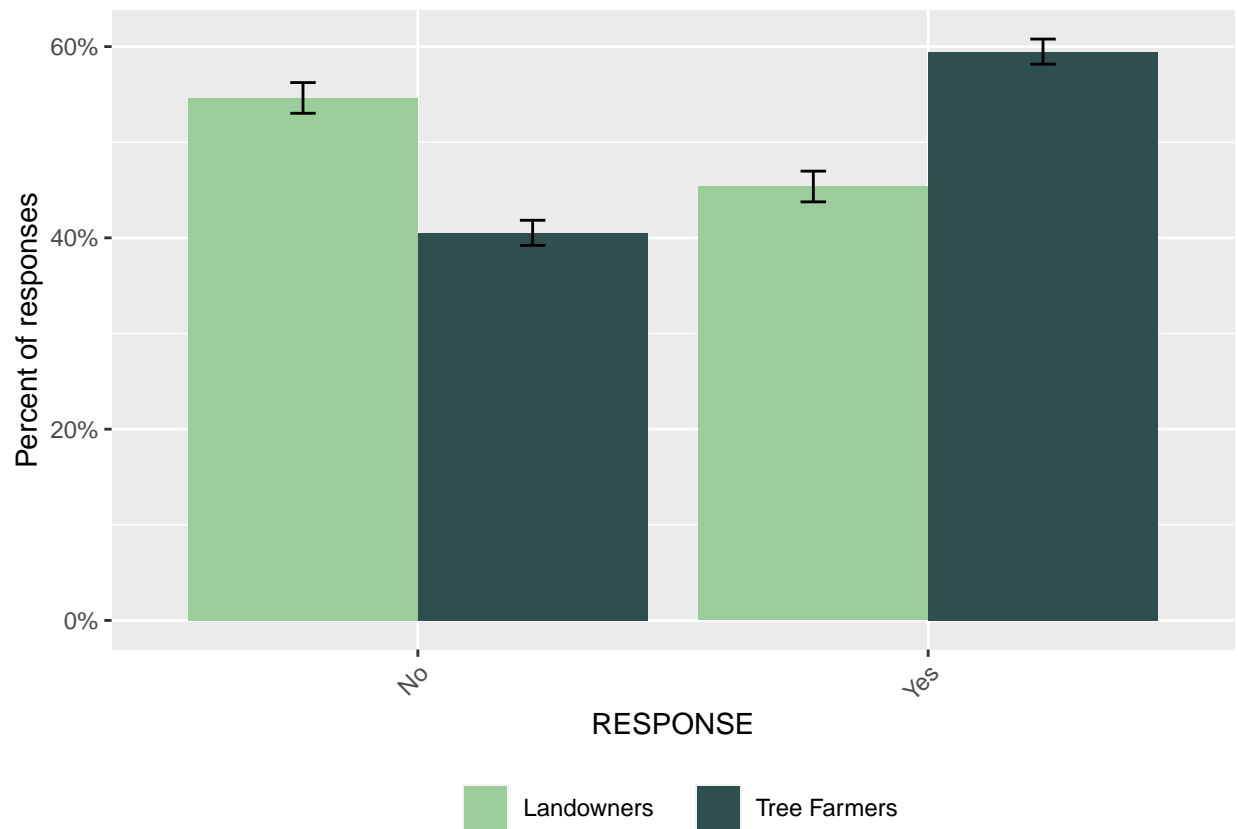
| | n |
|-----|-----|
| No | 860 |
| Yes | 101 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1037 |
| Yes | 367 |

COOP_EXTENSION

Which, if any, of the following organizations would you be interested in cooperating with to manage your wooded land in the future? University or extension department



Landowner totals

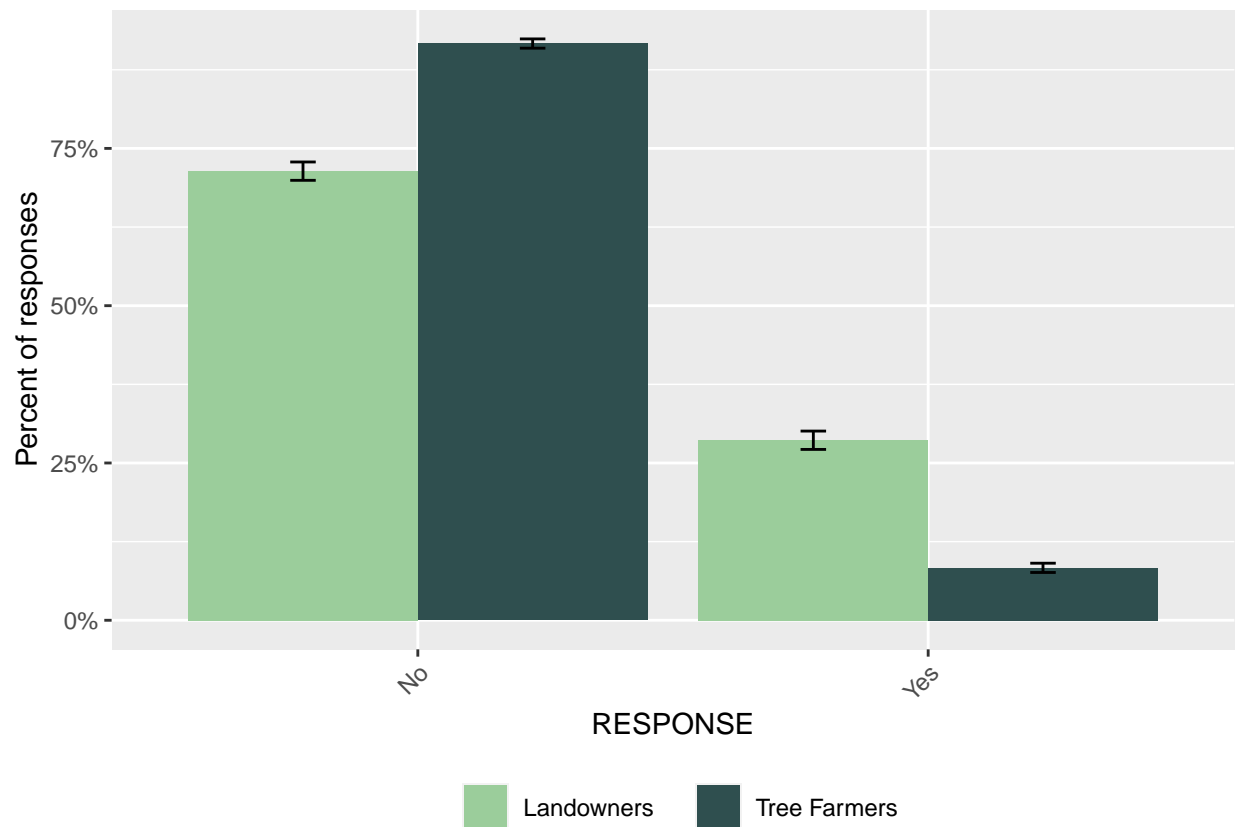
| | n |
|-----|-----|
| No | 525 |
| Yes | 436 |

Tree Farmer totals

| | n |
|-----|-----|
| No | 569 |
| Yes | 835 |

COOP_NONE

Which, if any, of the following organizations would you be interested in cooperating with to manage your wooded land in the future? None of the above

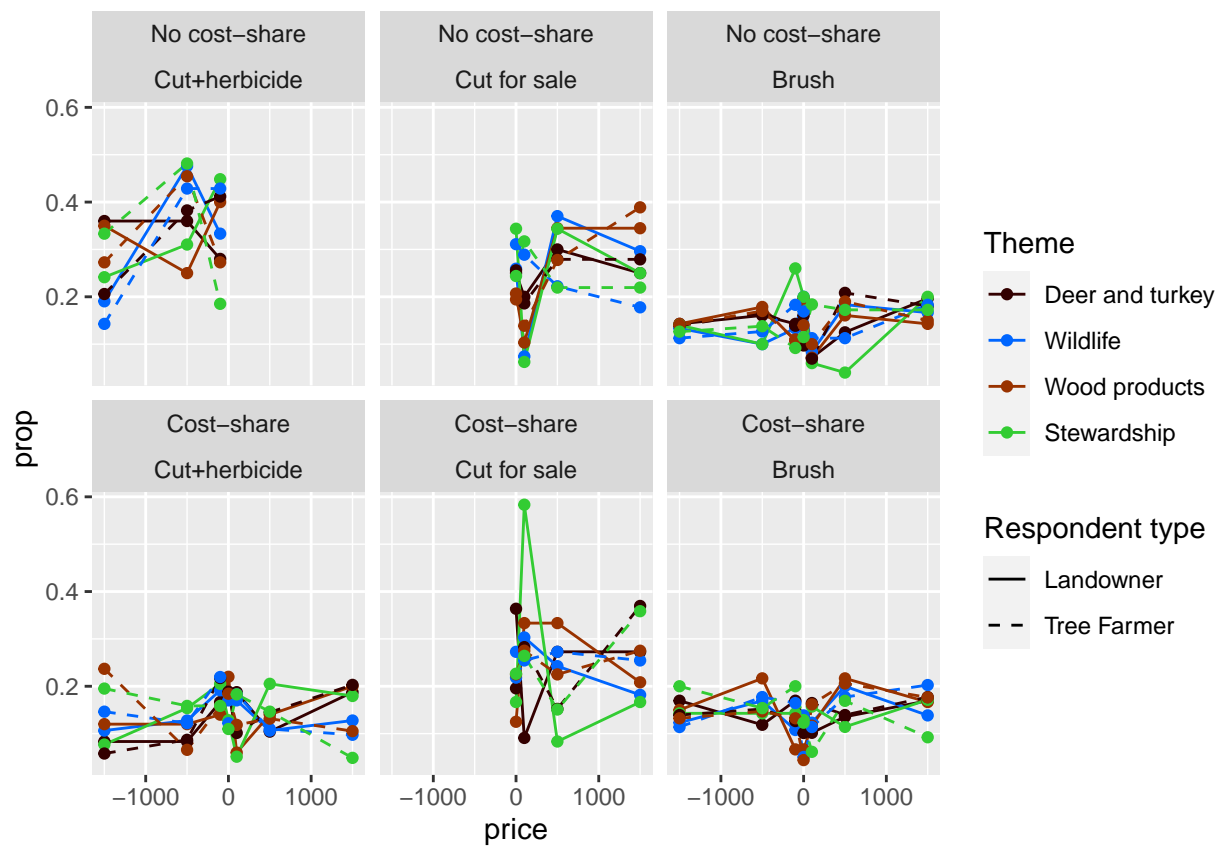


Landowner totals

| | n |
|-----|-----|
| No | 686 |
| Yes | 275 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1287 |
| Yes | 117 |



WOI_analysis_maps

Emma Sass, Brett Butler, Amanda Robillard, Jesse Caputo

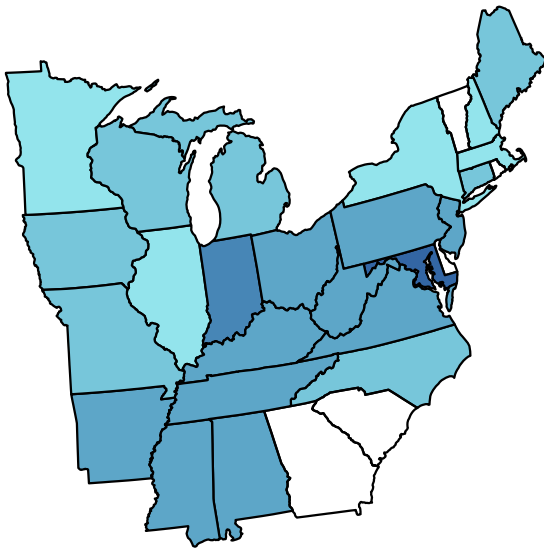
2020-07-29

OBJ_TIMBER

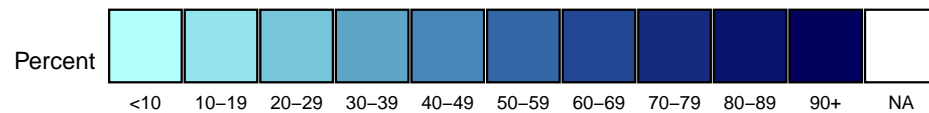
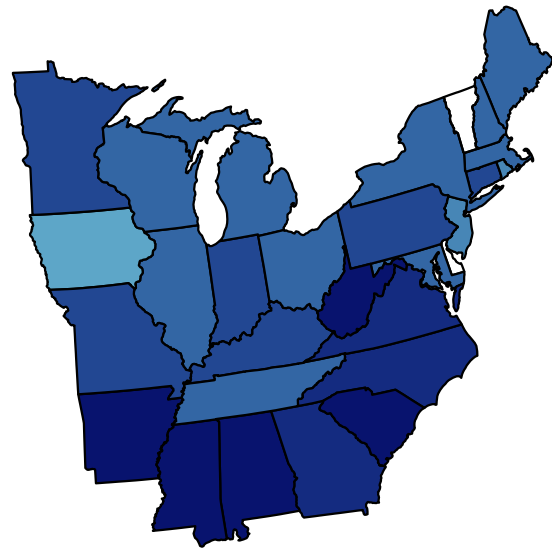
How important are the following as reasons for why you currently own your wooded land? For timber products, such as logs or pulpwood

Percent of respondents who said “Very Important” or “Important” for this objective.

OBJ_TIMBER – Landowners



OBJ_TIMBER – Tree Farmers

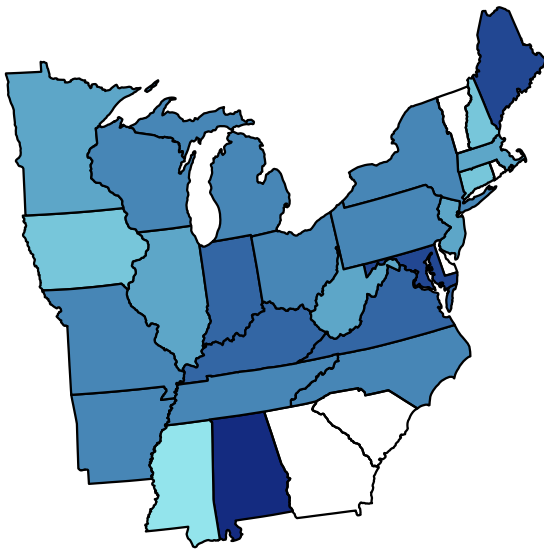


OBJ_LAND

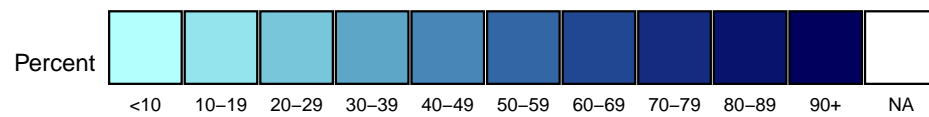
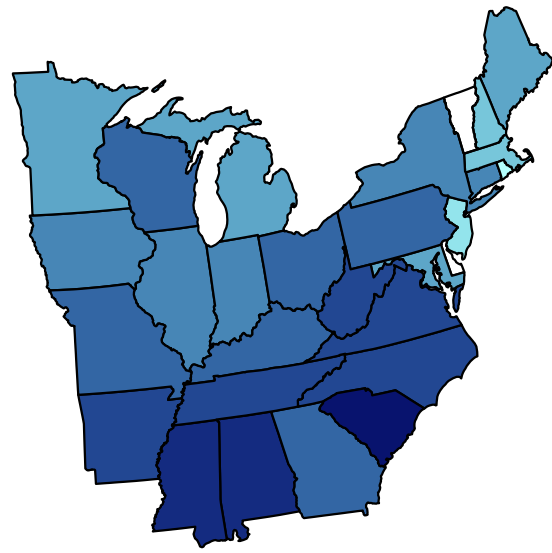
How important are the following as reasons for why you currently own your wooded land? For land investment

Percent of respondents who said “Very Important” or “Important” for this objective.

OBJ_LAND – Landowners



OBJ_LAND – Tree Farmers

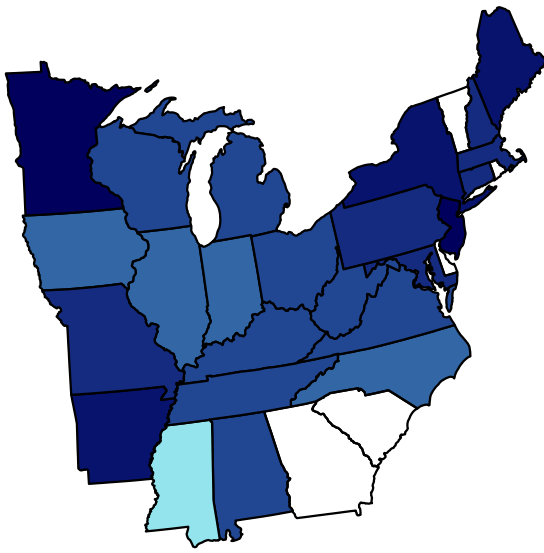


OBJ_PRIV

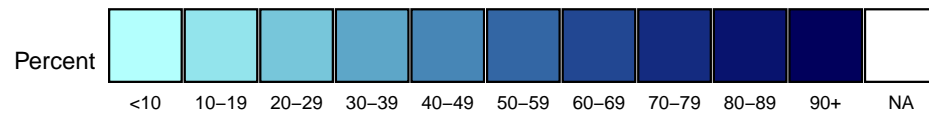
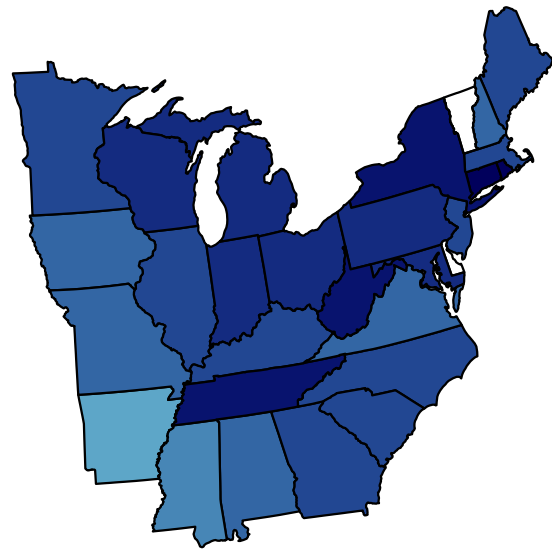
How important are the following as reasons for why you currently own your wooded land? For privacy

Percent of respondents who said “Very Important” or “Important” for this objective.

OBJ_PRIV – Landowners



OBJ_PRIV – Tree Farmers

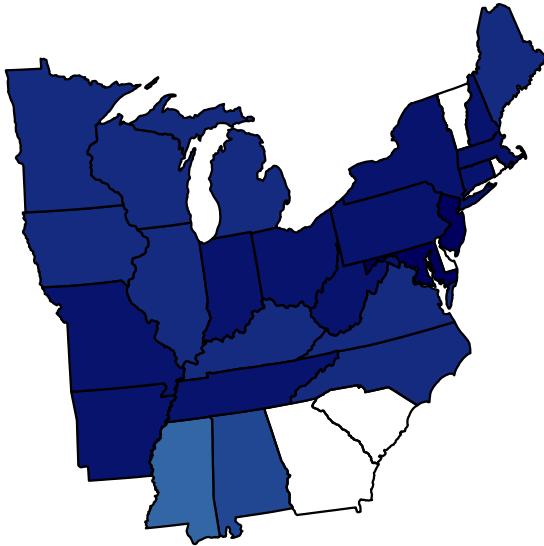


OBJ_BEA

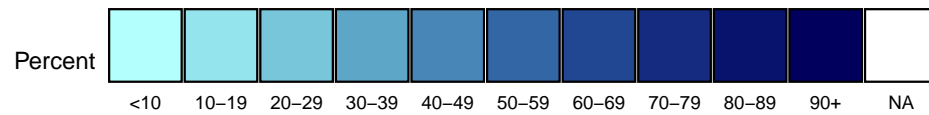
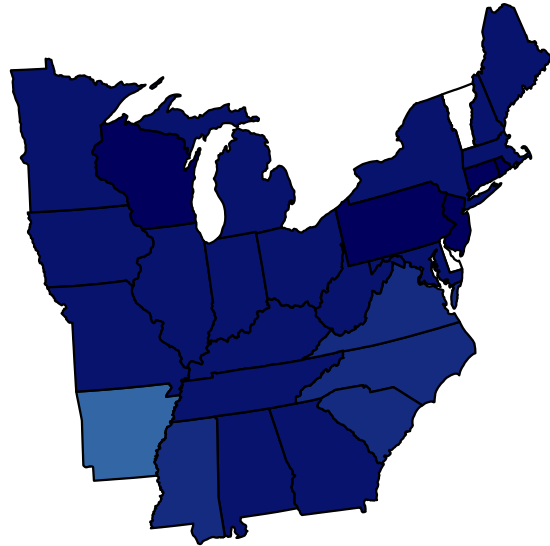
How important are the following as reasons for why you currently own your wooded land? To enjoy beauty or scenery

Percent of respondents who said “Very Important” or “Important” for this objective.

OBJ_BEA – Landowners



OBJ_BEA – Tree Farmers

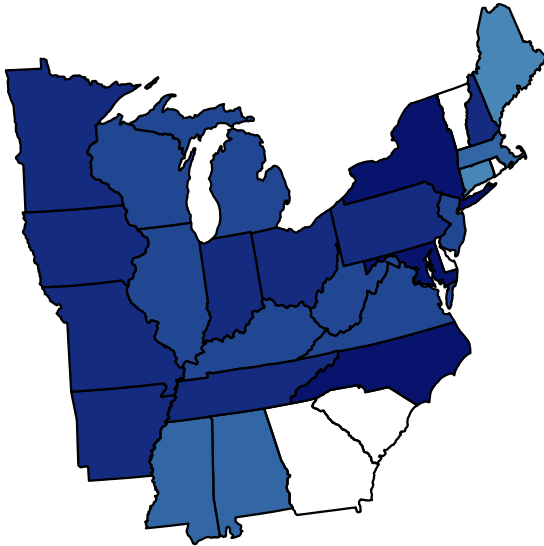


OBJ_WILD

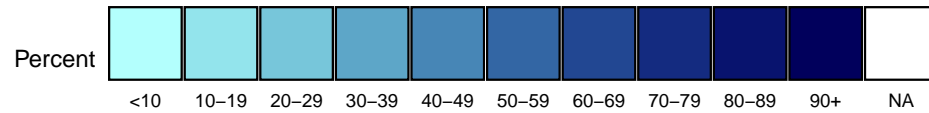
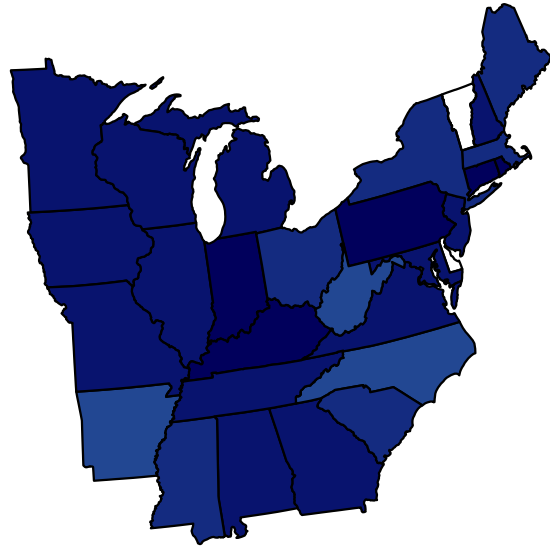
How important are the following as reasons for why you currently own your wooded land? To protect or improve wildlife habitat

Percent of respondents who said “Very Important” or “Important” for this objective.

OBJ_WILD – Landowners



OBJ_WILD – Tree Farmers

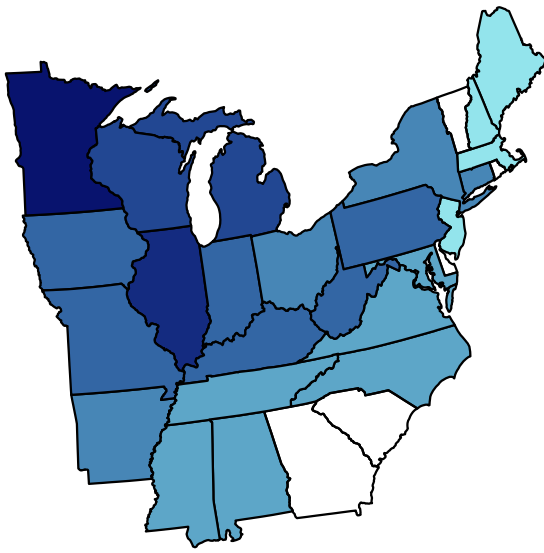


OBJ_HUNT

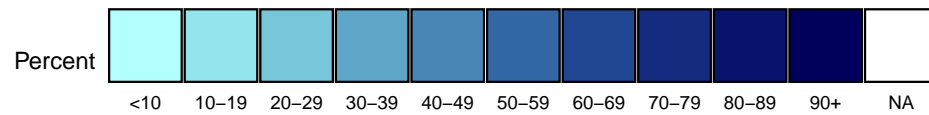
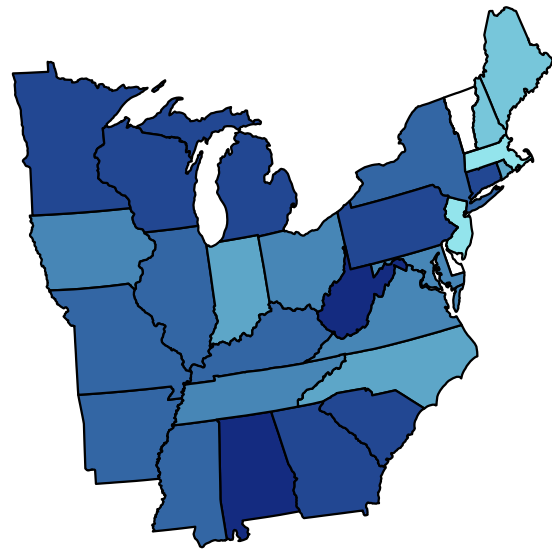
How important are the following as reasons for why you currently own your wooded land? For hunting

Percent of respondents who said “Very Important” or “Important” for this objective.

OBJ_HUNT – Landowners



OBJ_HUNT – Tree Farmers

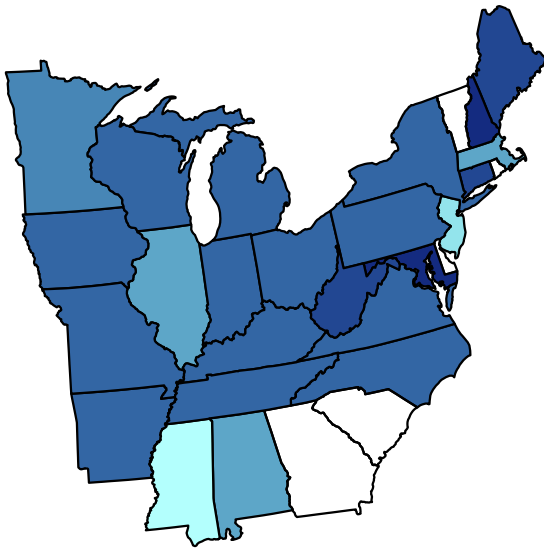


OBJ_REC

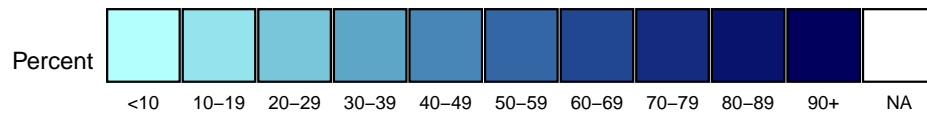
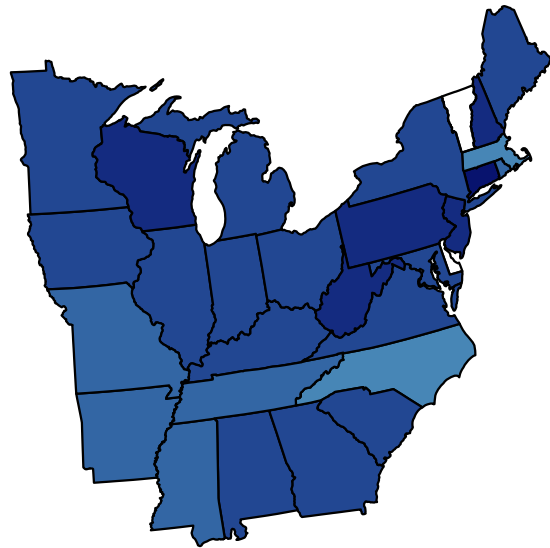
How important are the following as reasons for why you currently own your wooded land? For recreation other than hunting

Percent of respondents who said “Very Important” or “Important” for this objective.

OBJ_REC – Landowners



OBJ_REC – Tree Farmers

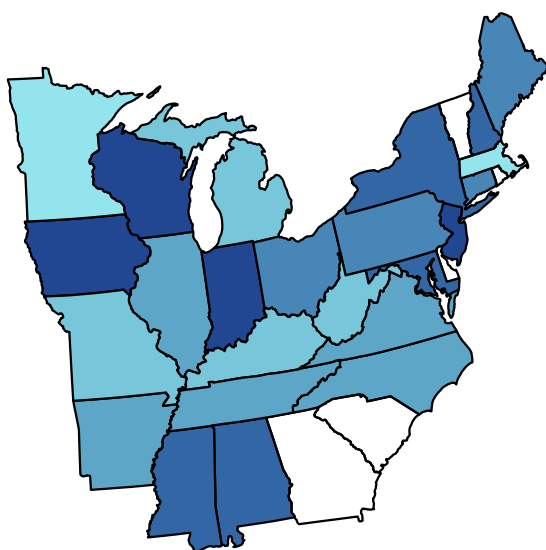


ADV_PAST

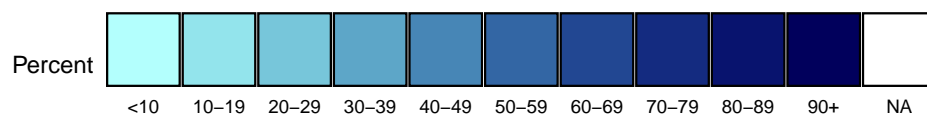
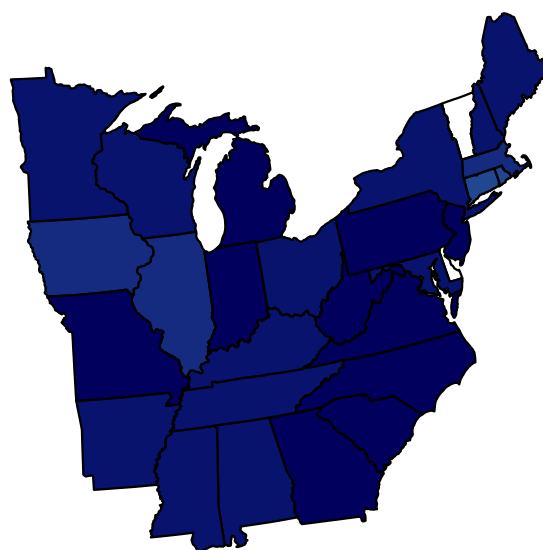
I have received advice about my wooded land in the past 5 years

Percent of respondents who said “Yes”

ADV_PAST – Landowners



ADV_PAST – Tree Farmers

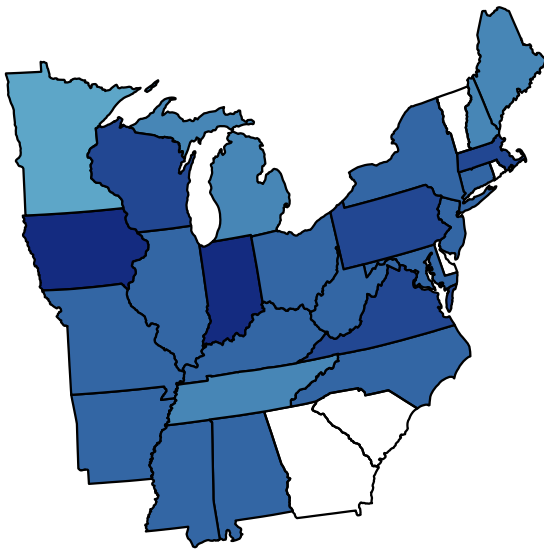


ADV_FUT

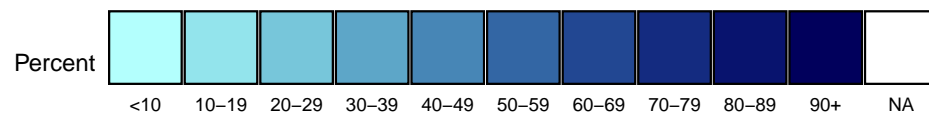
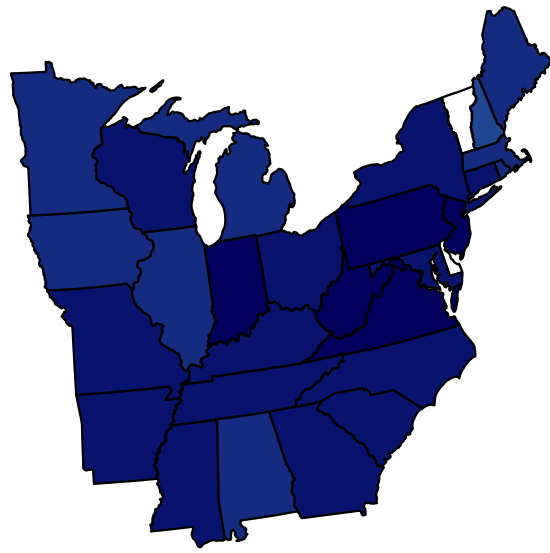
I want to receive advice about my wooded land in the next 5 years

Percent of respondents who said “Yes”

ADV_FUT – Landowners



ADV_FUT – Tree Farmers

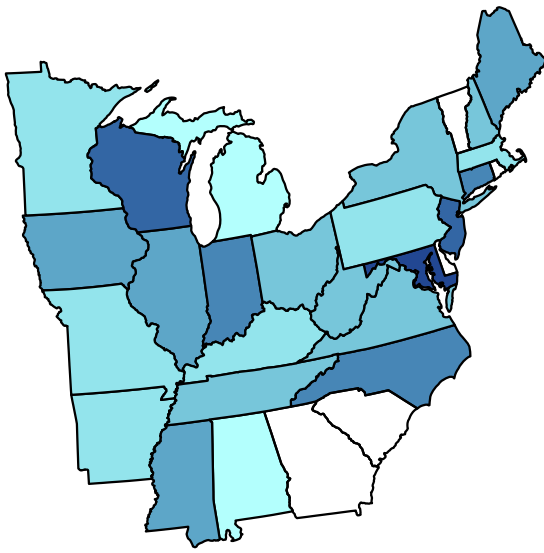


MGMT_PLAN

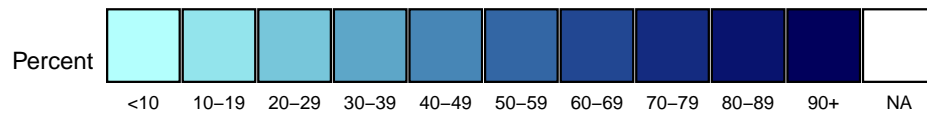
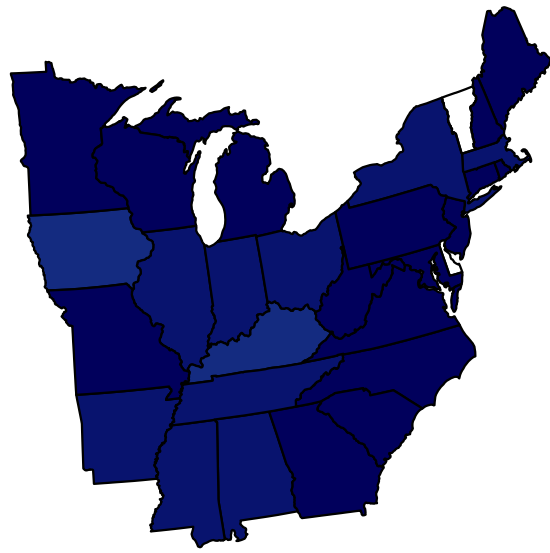
Do you have a written management plan for your wooded land?

Percent of respondents who said “Yes”

MGMT_PLAN – Landowners



MGMT_PLAN – Tree Farmers

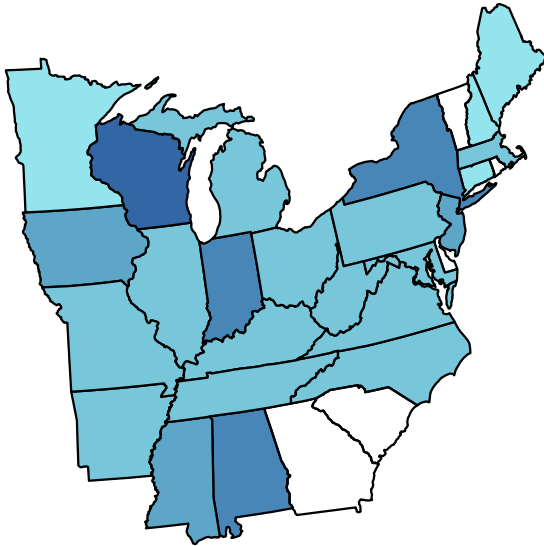


CUT_TTM

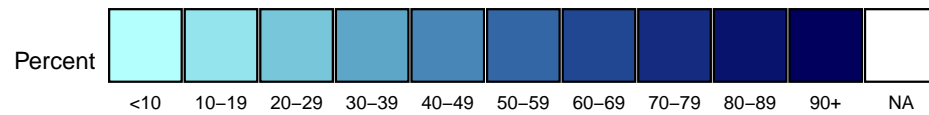
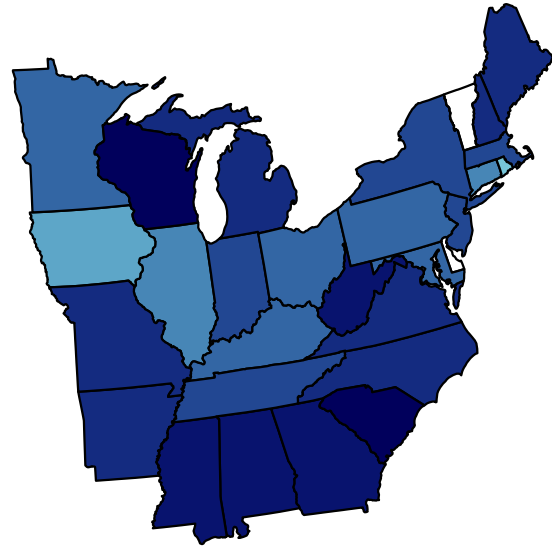
Which of the following statements best describes your thoughts about cutting trees from your wooded land for sale in the future?

Percent of respondents who said they are “Planning to cut”

CUT_TTM – Landowners



CUT_TTM – Tree Farmers

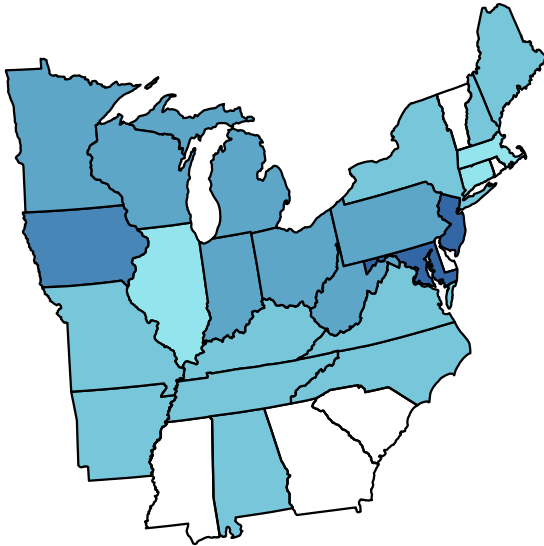


PLANT_TTM

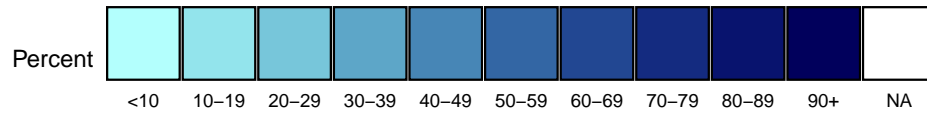
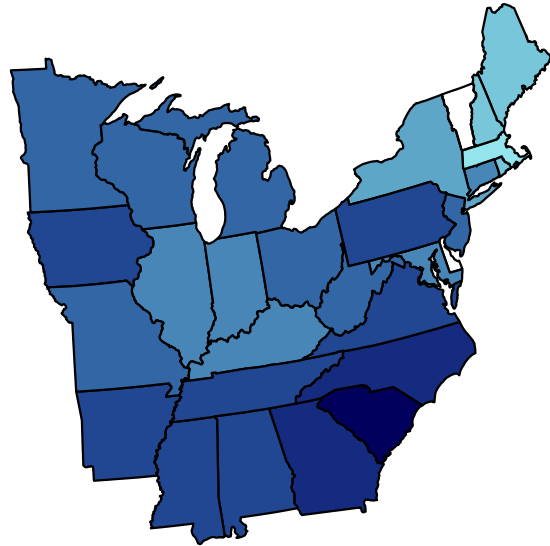
Which of the following statements best describes your thoughts about planting trees on your wooded land in the future?

Percent of respondents who said they are “Planning to plant trees”

PLANT_TTM – Landowners



PLANT_TTM – Tree Farmers

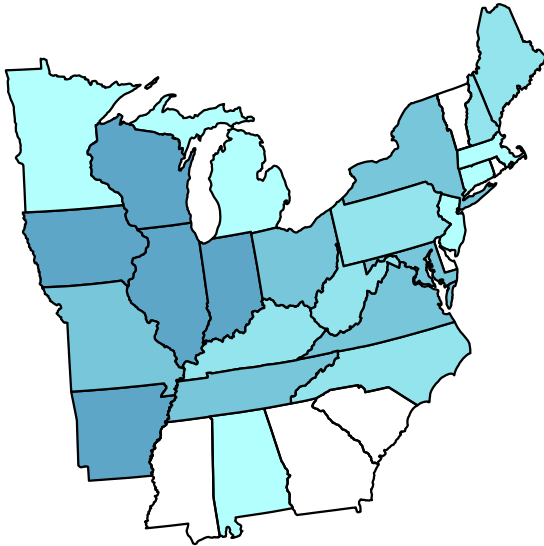


HERB_TTM

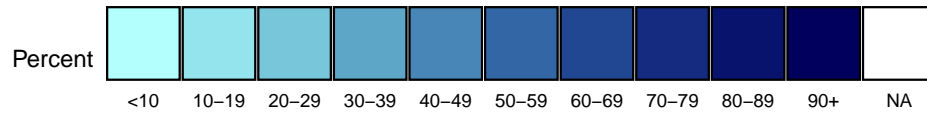
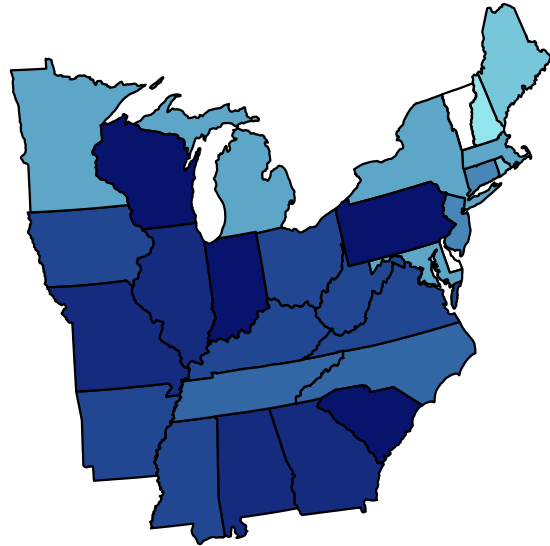
Which of the following statements best describes your thoughts about using herbicides on your wooded land in the future?

Percent of respondents who said they are “Planning to use herbicides”

HERB_TTM – Landowners



HERB_TTM – Tree Farmers

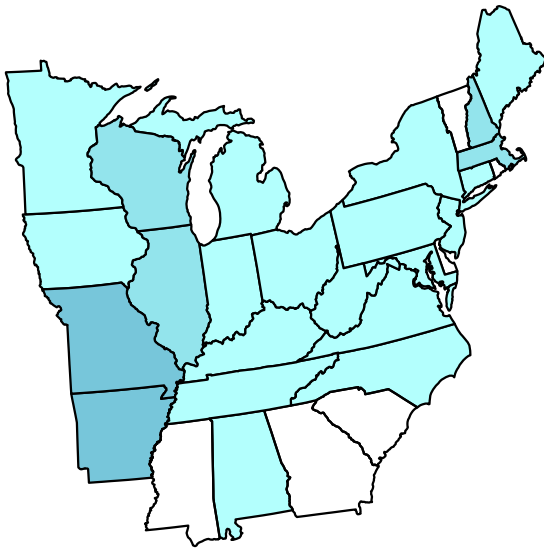


FIRE_TTM

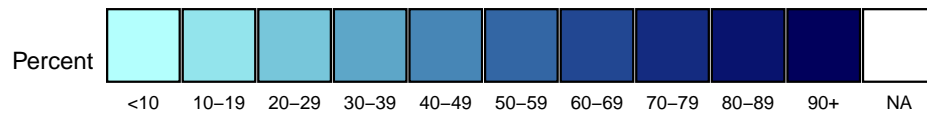
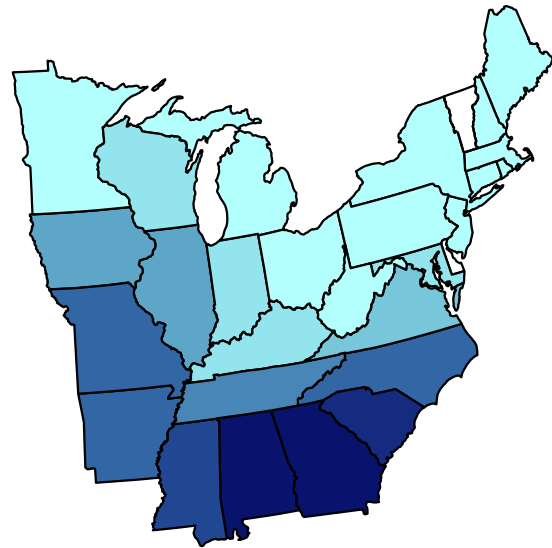
Which of the following statements best describes your thoughts about using prescribed fire on your wooded land in the future?

Percent of respondents who said they are “Planning to use prescribed fire”

FIRE_TTM – Landowners



FIRE_TTM – Tree Farmers

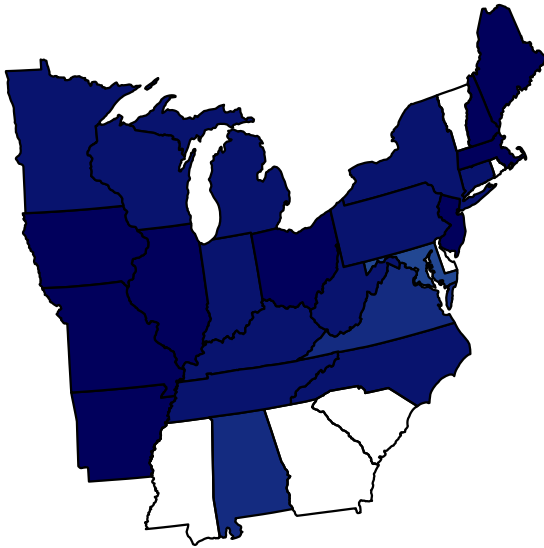


OAK_COMMON

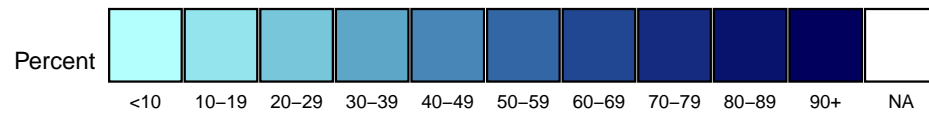
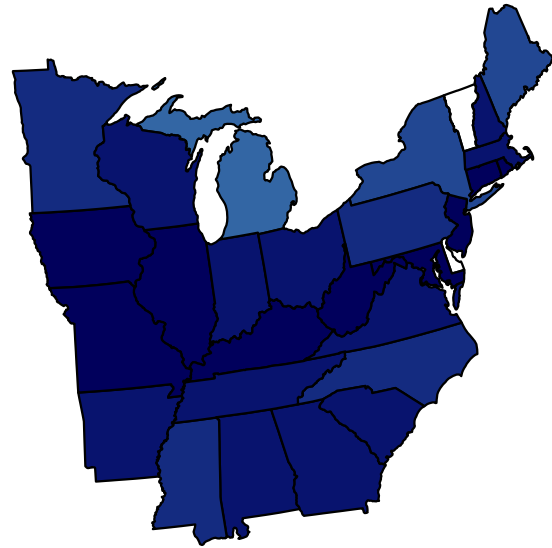
How common are oak trees on your wooded land?

Percent of respondents who said oak is “Extremely common” or “Very common” on their wooded land

OAK_COMMON – Landowners



OAK_COMMON – Tree Farmers

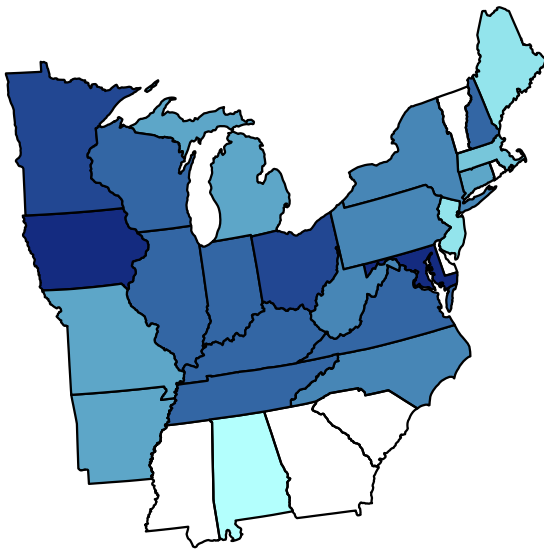


OAK_MORE

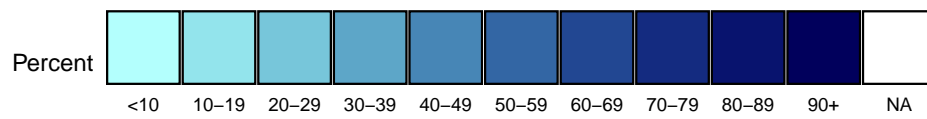
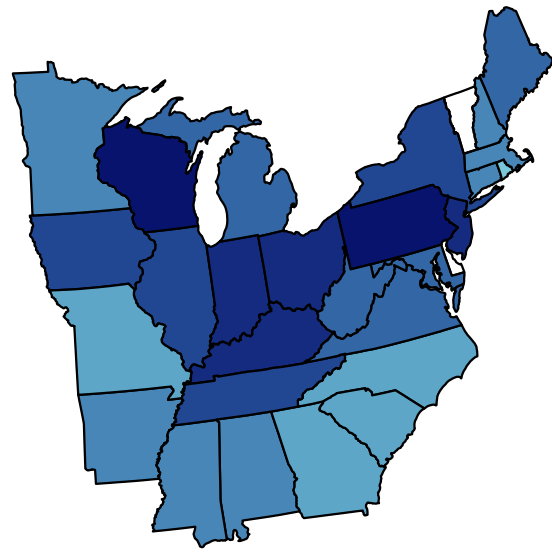
Would you like more oak trees on your land?

Percent of respondents who said “Yes”

OAK_MORE – Landowners



OAK_MORE – Tree Farmers

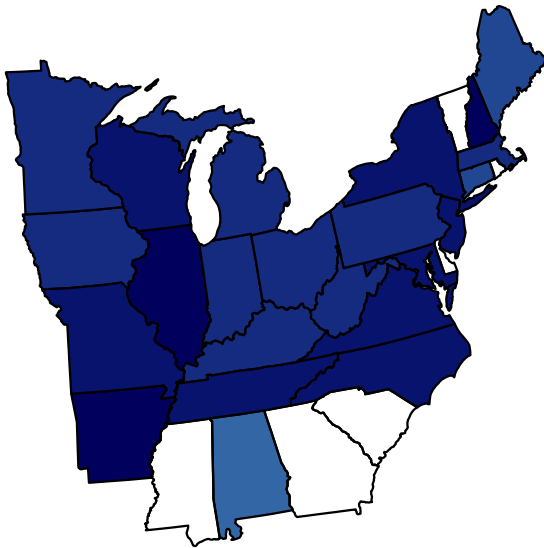


UPLAND_SCENE

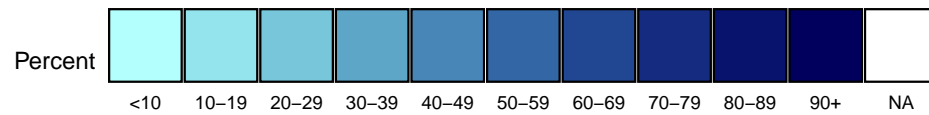
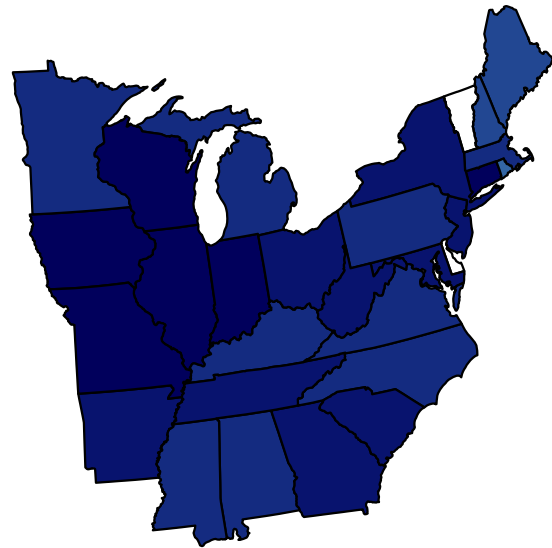
What is your level of agreement or disagreement with the following statements? I think upland woods dominated by oak trees... Provide good scenery

Percent of respondents who said

UPLAND_SCENE – Landowners



UPLAND_SCENE – Tree Farmers

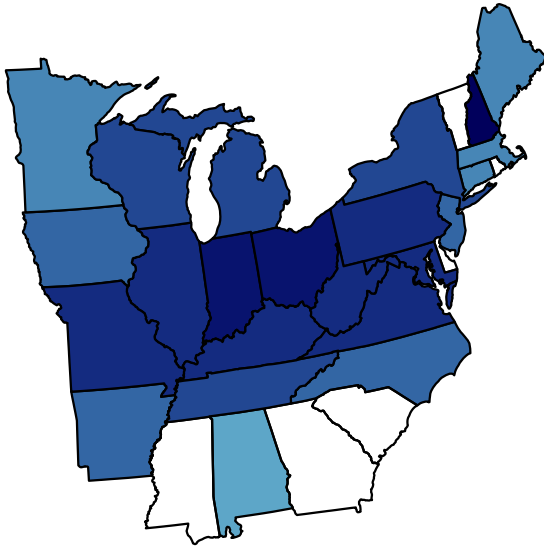


UPLAND_TIMBER

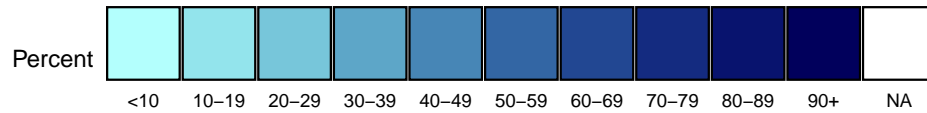
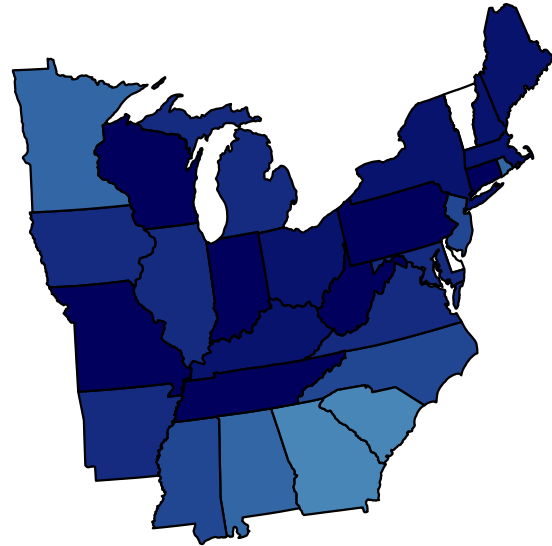
What is your level of agreement or disagreement with the following statements? I think upland woods dominated by oak trees... Produce profitable timber

Percent of respondents who said “Agree” or “Strongly agree” to this statement

UPLAND_TIMBER – Landowners



UPLAND_TIMBER – Tree Farmers

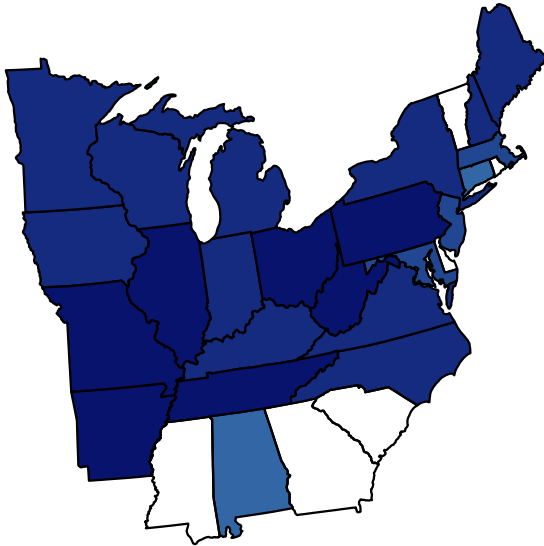


UPLAND_GAME

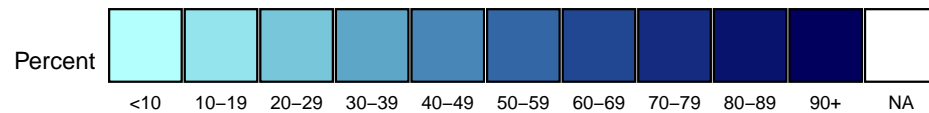
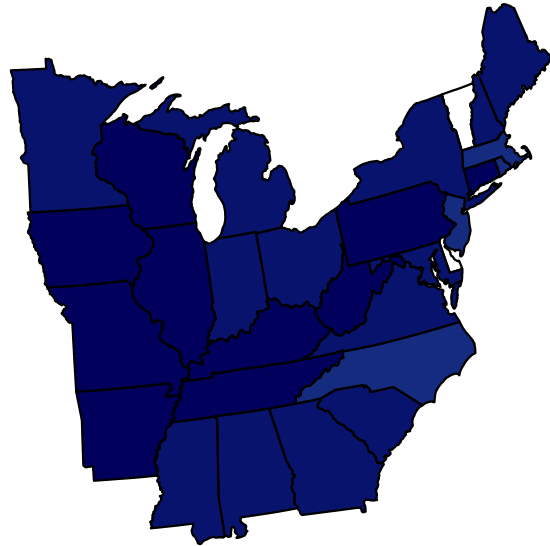
What is your level of agreement or disagreement with the following statements? I think upland woods dominated by oak trees... Provide good turkey, deer, and other game habitat

Percent of respondents who said “Agree” or “Strongly agree” to this statement

UPLAND_GAME – Landowners



UPLAND_GAME – Tree Farmers



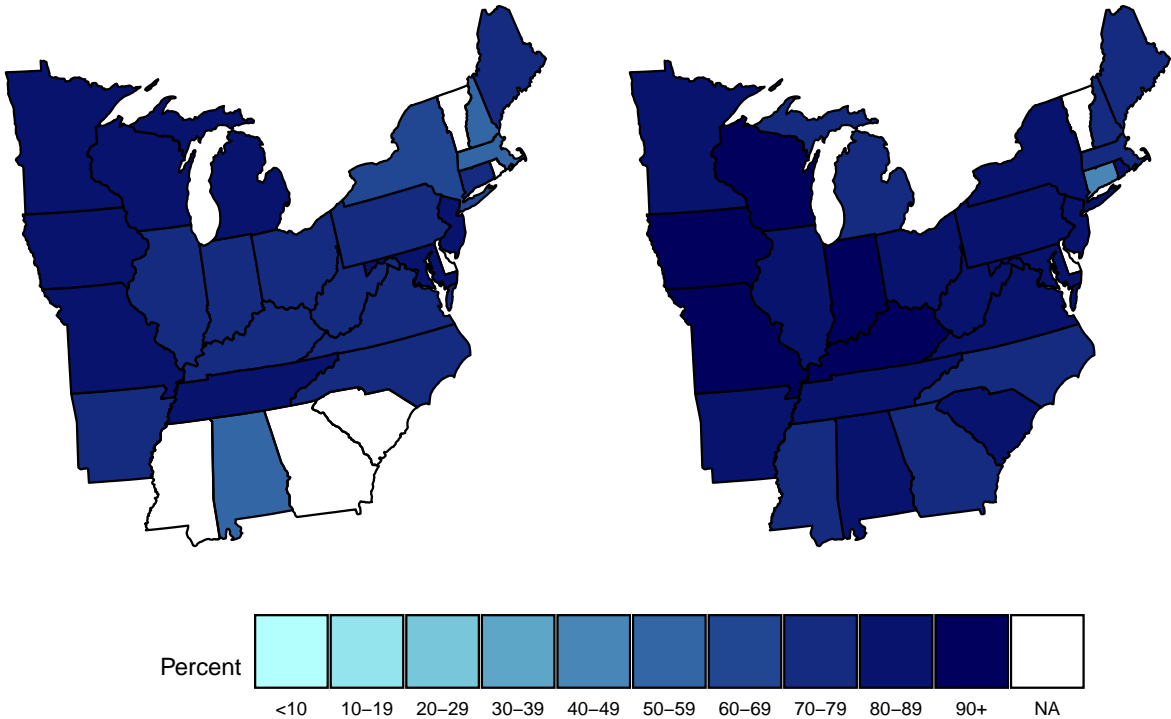
UPLAND_NONGAME

What is your level of agreement or disagreement with the following statements? I think upland woods dominated by oak trees... Provide good habitat for non-game wildlife

Percent of respondents who said “Agree” or “Strongly agree” to this statement

UPLAND_NONGAME – Landowners

UPLAND_NONGAME – Tree Farmers



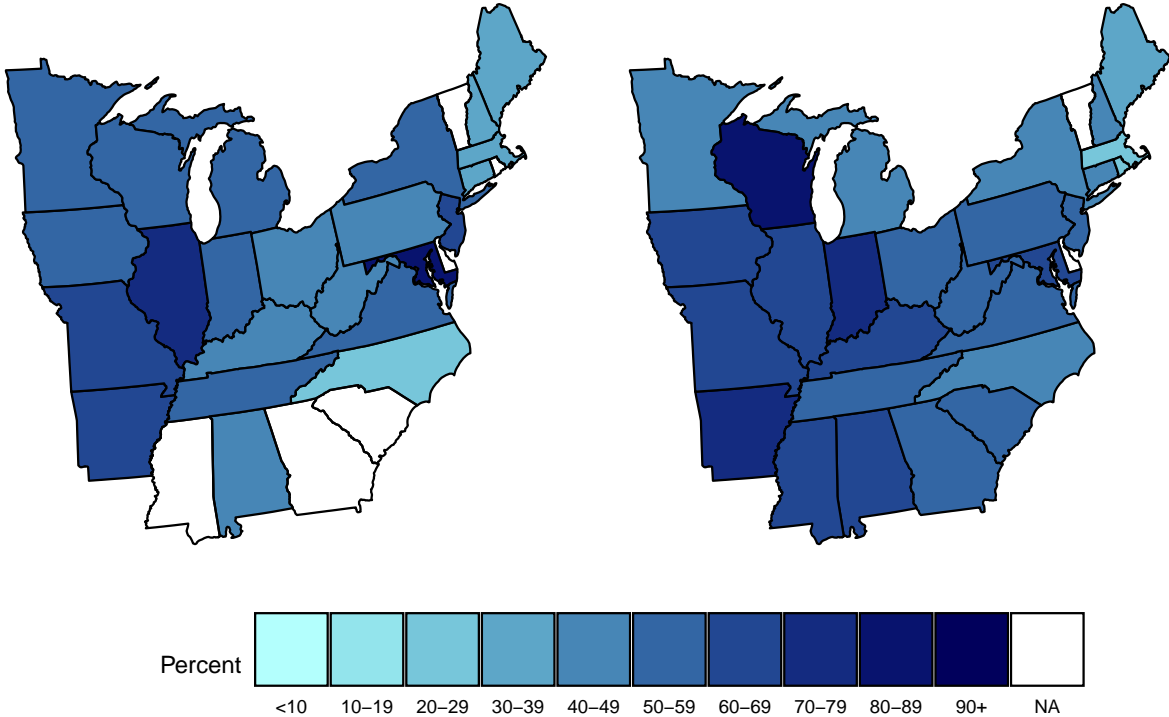
UPLAND_REC

What is your level of agreement or disagreement with the following statements? I think upland woods dominated by oak trees... Provide good recreational opportunities

Percent of respondents who said “Agree” or “Strongly agree” to this statement

UPLAND_REC – Landowners

UPLAND_REC – Tree Farmers



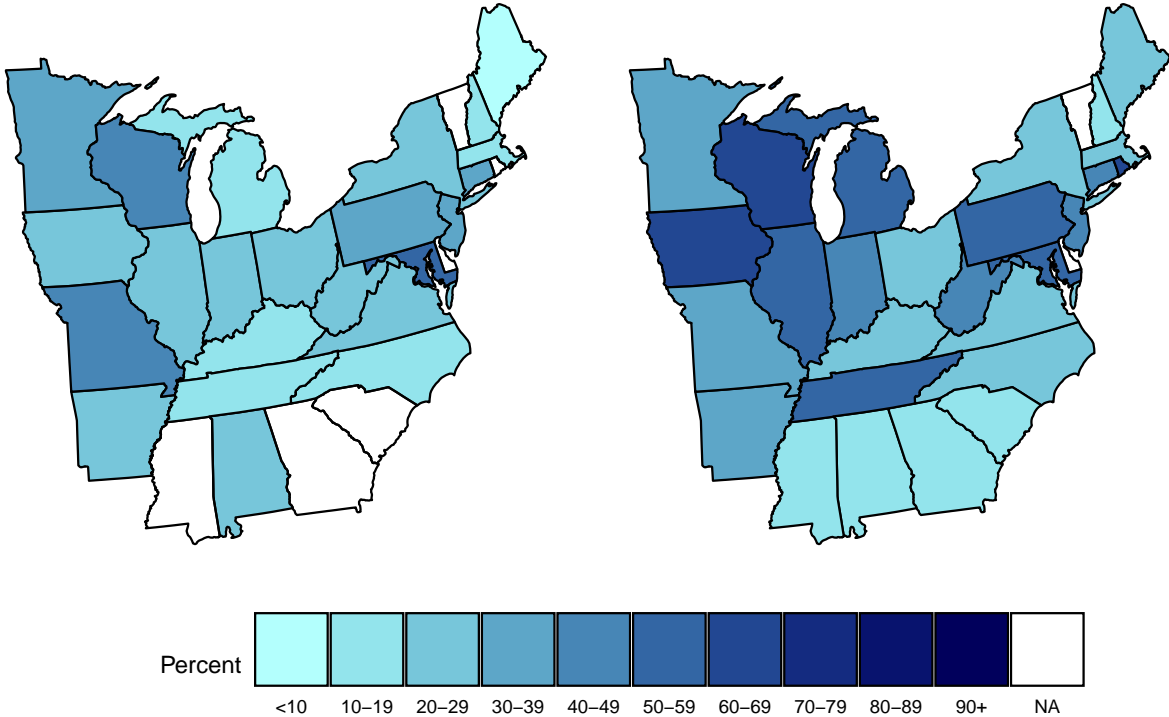
UPLAND_DISEASE

What is your level of agreement or disagreement with the following statements? I think upland woods dominated by oak trees... Are vulnerable to insects and disease

Percent of respondents who said “Agree” or “Strongly agree” to this statement

UPLAND_DISEASE – Landowners

UPLAND_DISEASE – Tree Farmers



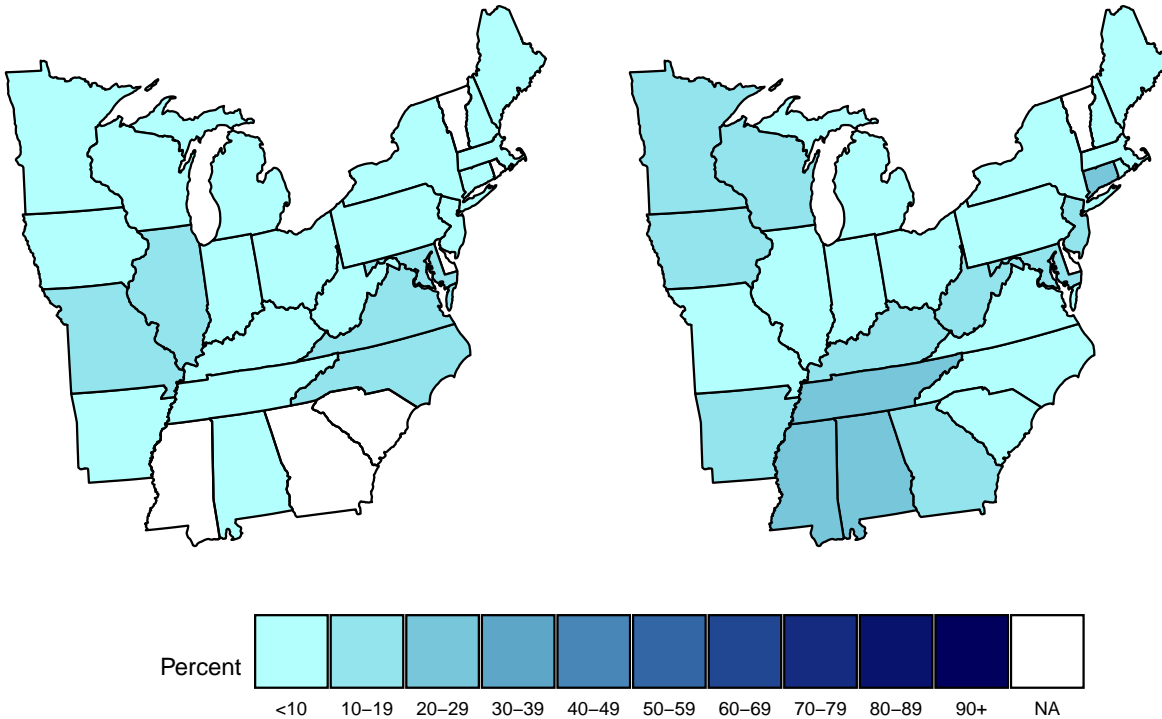
UPLAND_FIRE

What is your level of agreement or disagreement with the following statements? I think upland woods dominated by oak trees... Are prone to wildfire

Percent of respondents who said “Agree” or “Strongly agree” to this statement

UPLAND_FIRE – Landowners

UPLAND_FIRE – Tree Farmers

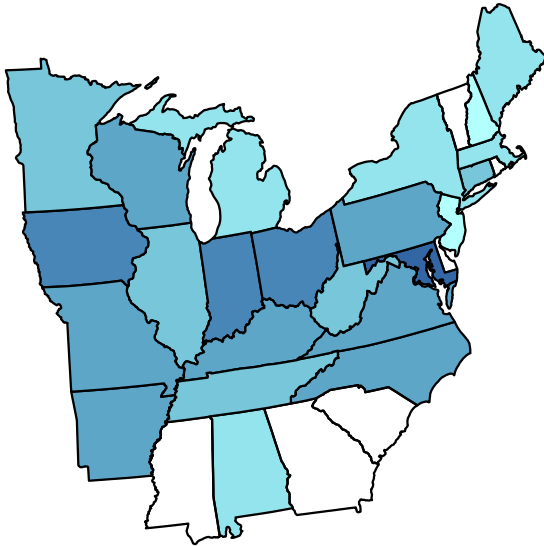


UPLAND_DECLINE

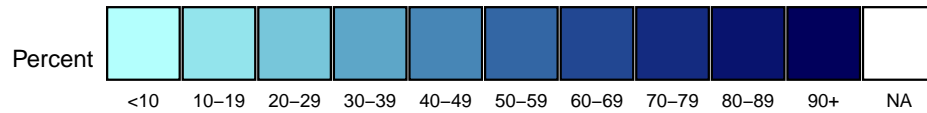
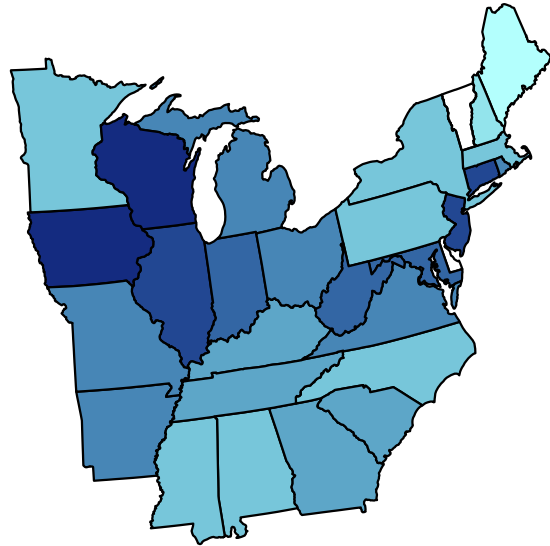
What is your level of agreement or disagreement with the following statements? I think upland woods dominated by oak trees... Are at risk of declining

Percent of respondents who said “Agree” or “Strongly agree” to this statement

UPLAND_DECLINE – Landowners



UPLAND_DECLINE – Tree Farmers

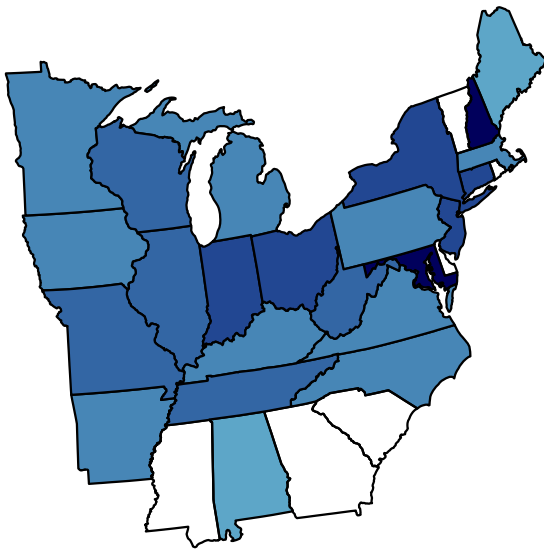


IDENTIFY_CONS

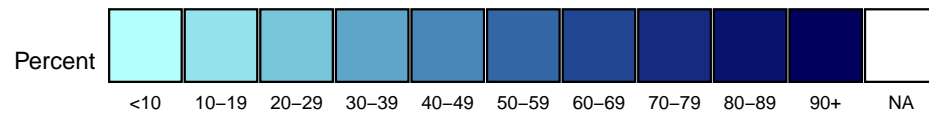
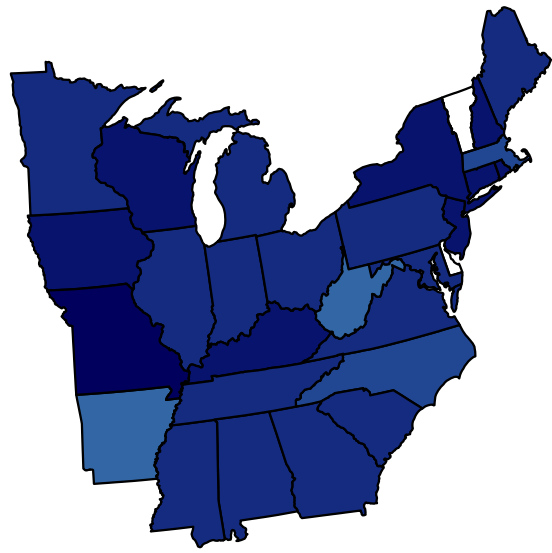
How much, if at all, would you describe yourself in the following ways? Conservationist

Percent of respondents who said “Very” or “Extremely” to this identity

IDENTIFY_CONS – Landowners



IDENTIFY_CONS – Tree Farmers



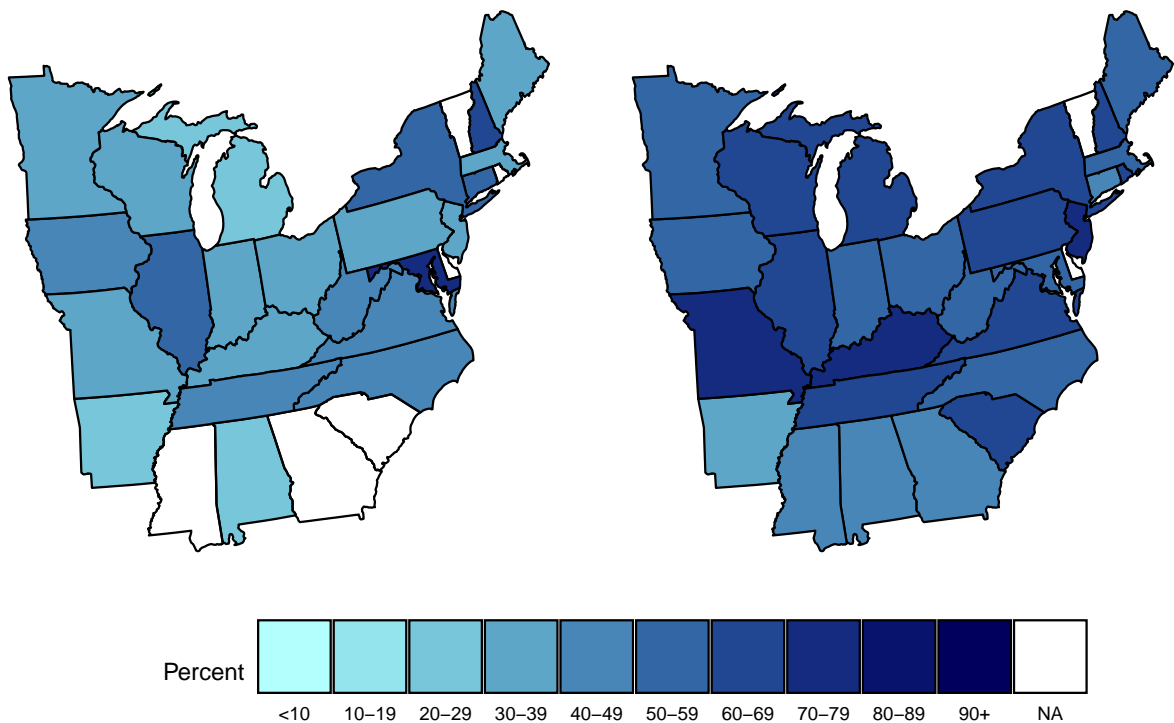
IDENTIFY_ENV

How much, if at all, would you describe yourself in the following ways? Environmentalist

Percent of respondents who said “Very” or “Extremely” to this identity

IDENTIFY_ENV – Landowners

IDENTIFY_ENV – Tree Farmers



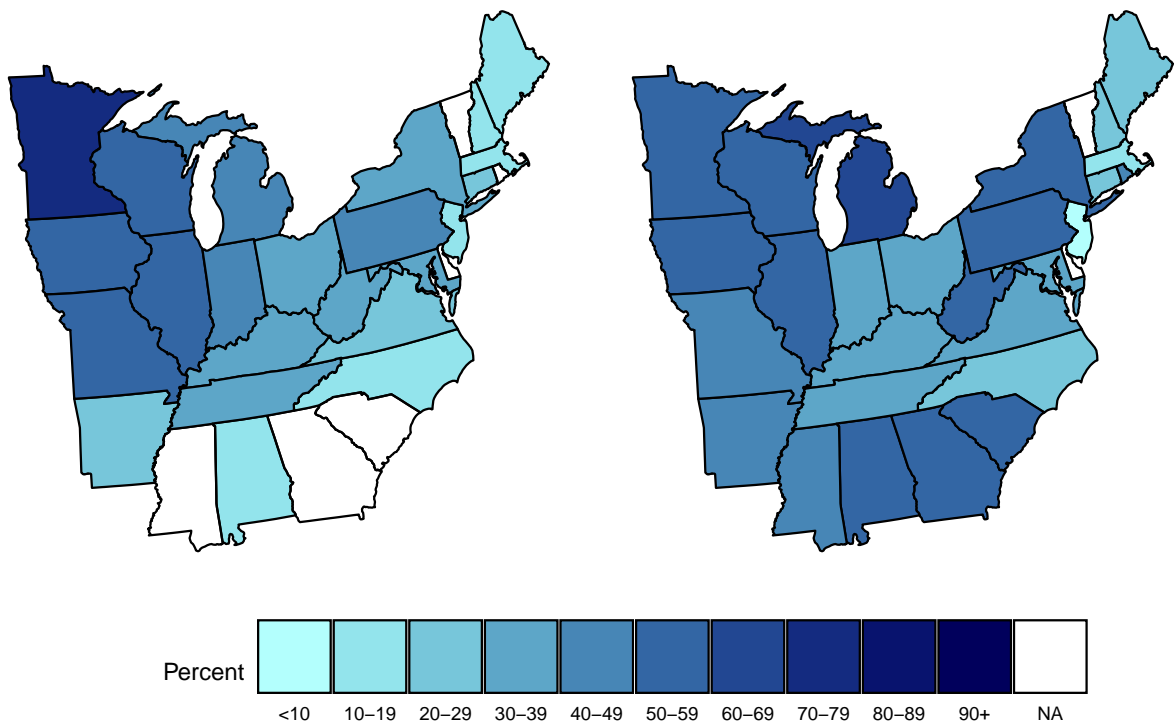
IDENTIFY_HUNTER

How much, if at all, would you describe yourself in the following ways? Hunter

Percent of respondents who said “Very” or “Extremely” to this identity

IDENTIFY_HUNTER – Landowners

IDENTIFY_HUNTER – Tree Farmers



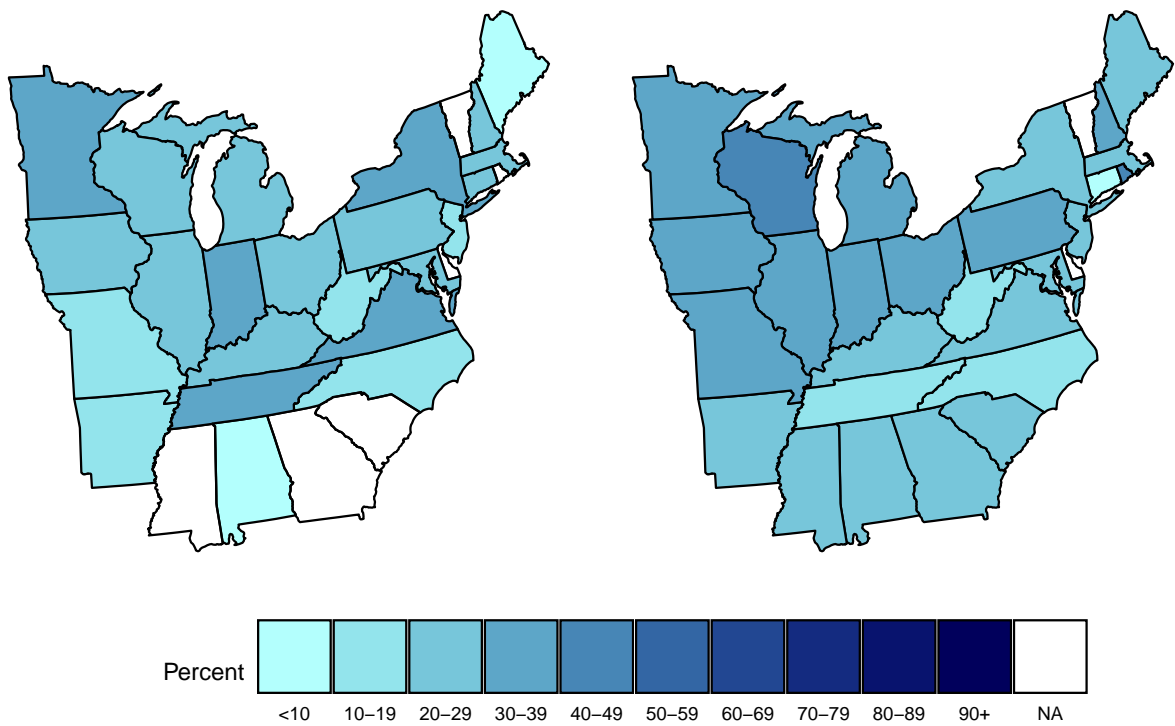
IDENTIFY_BIRDER

How much, if at all, would you describe yourself in the following ways? Birder

Percent of respondents who said “Very” or “Extremely” to this identity

IDENTIFY_BIRDER – Landowners

IDENTIFY_BIRDER – Tree Farmers



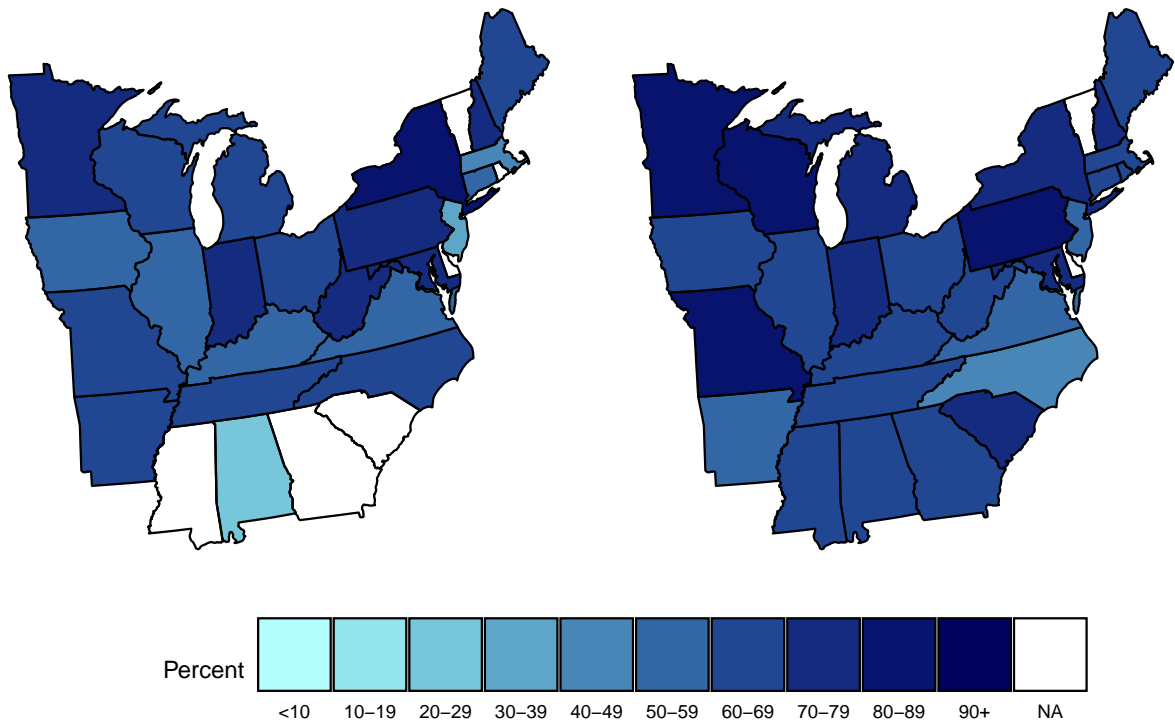
IDENTIFY_WILD

How much, if at all, would you describe yourself in the following ways? Wildlife viewer

Percent of respondents who said “Very” or “Extremely” to this identity

IDENTIFY_WILD – Landowners

IDENTIFY_WILD – Tree Farmers

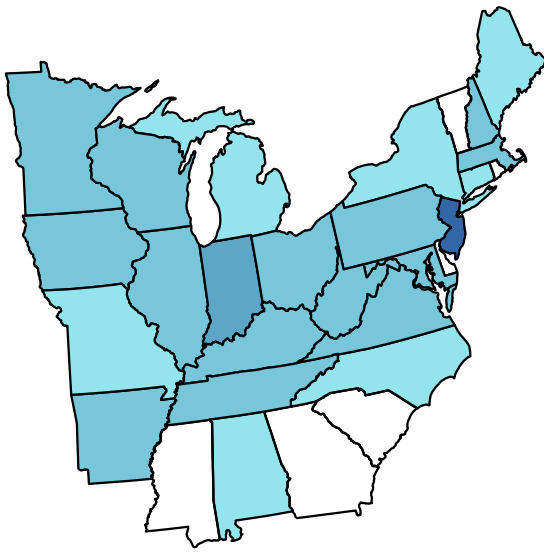


IDENTIFY_TIMBER

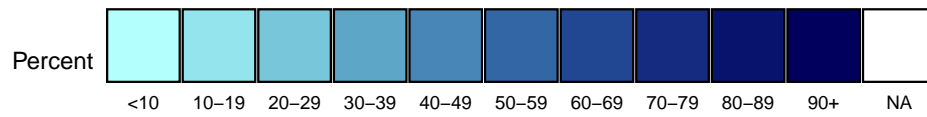
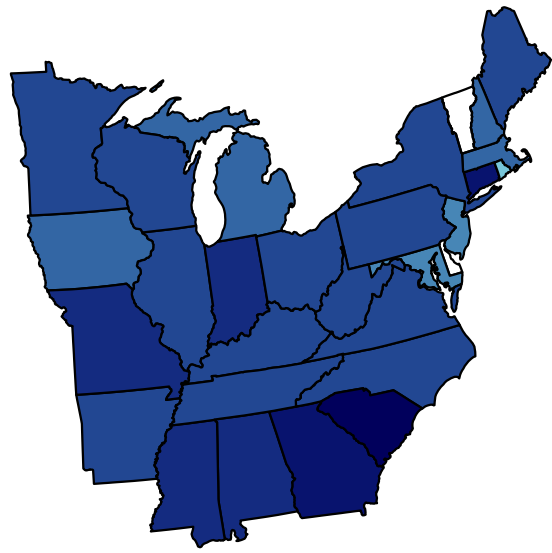
How much, if at all, would you describe yourself in the following ways? Timber grower

Percent of respondents who said “Very” or “Extremely” to this identity

IDENTIFY_TIMBER – Landowners



IDENTIFY_TIMBER – Tree Farmers

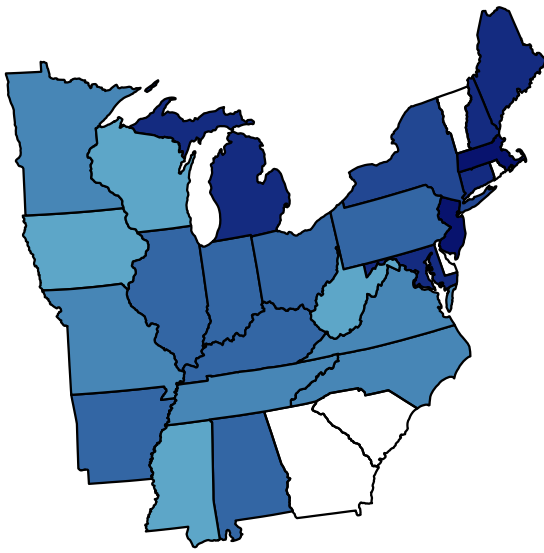


HOME

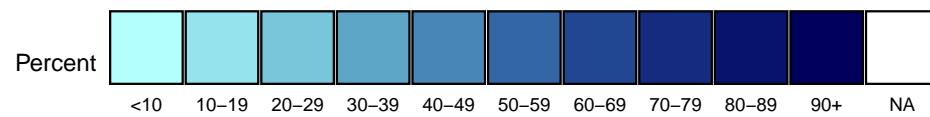
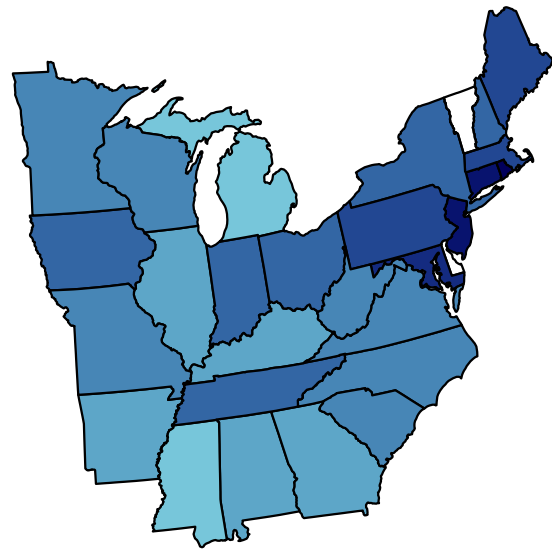
Which, if any, of the following do you own within a mile of your wooded land? Home (primary residence)

Percent of respondents who said “Yes”

HOME – Landowners



HOME – Tree Farmers

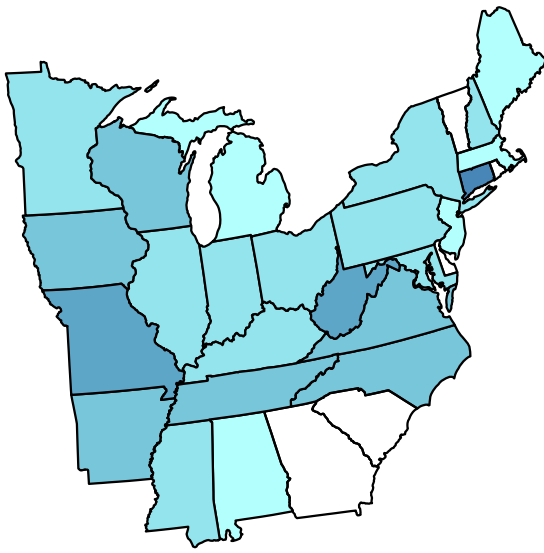


CABIN

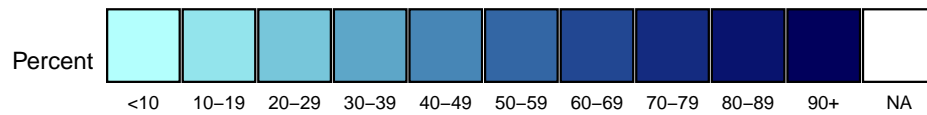
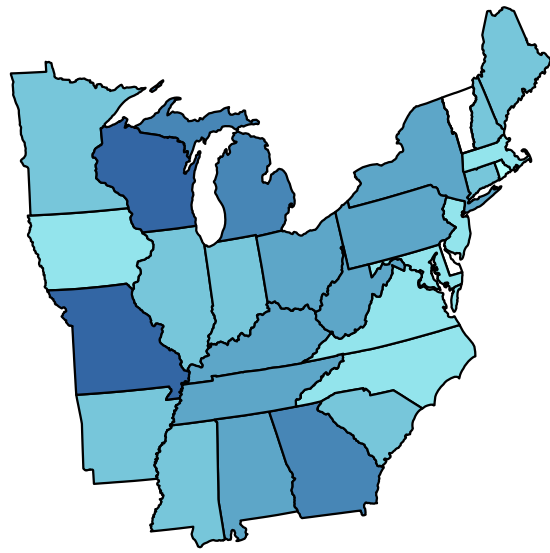
Which, if any, of the following do you own within a mile of your wooded land? Cabin or secondary residence

Percent of respondents who said “Yes”

CABIN – Landowners



CABIN – Tree Farmers

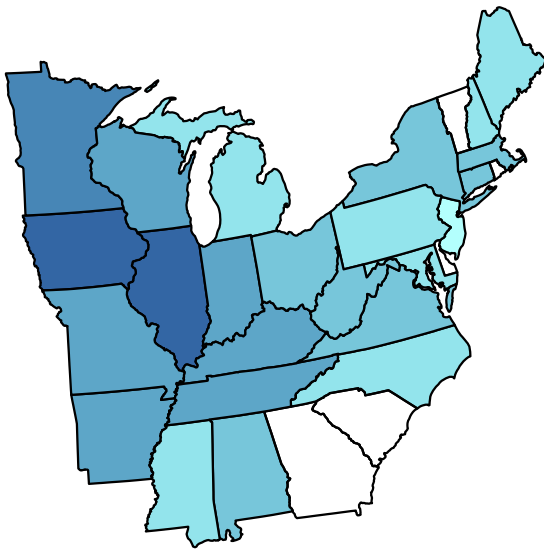


FARM

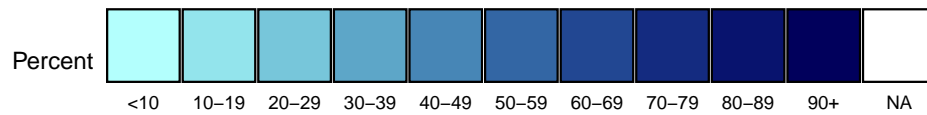
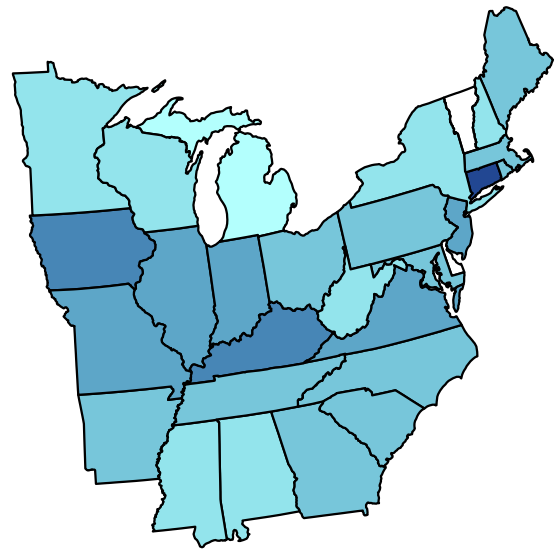
Which, if any, of the following do you own within a mile of your wooded land? Farm or ranch

Percent of respondents who said “Yes”

FARM – Landowners



FARM – Tree Farmers



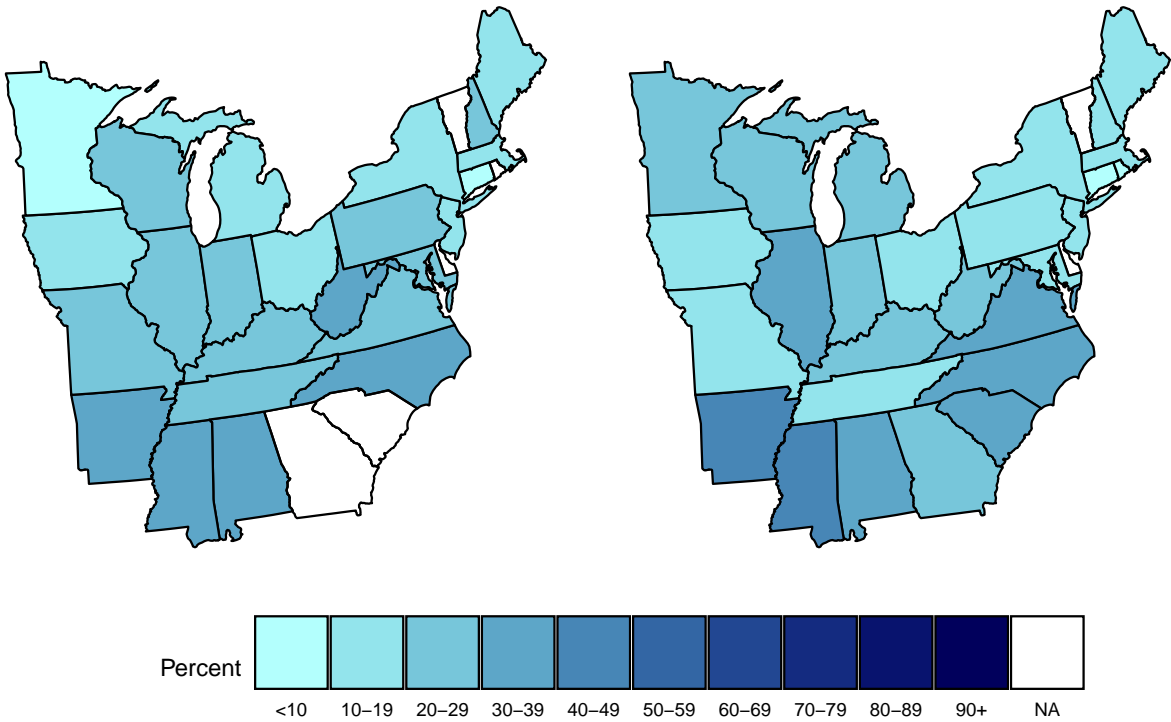
HOME_NONE

Which, if any, of the following do you own within a mile of your wooded land? None of the above

Percent of respondents who said “Yes”

HOME_NONE – Landowners

HOME_NONE – Tree Farmers

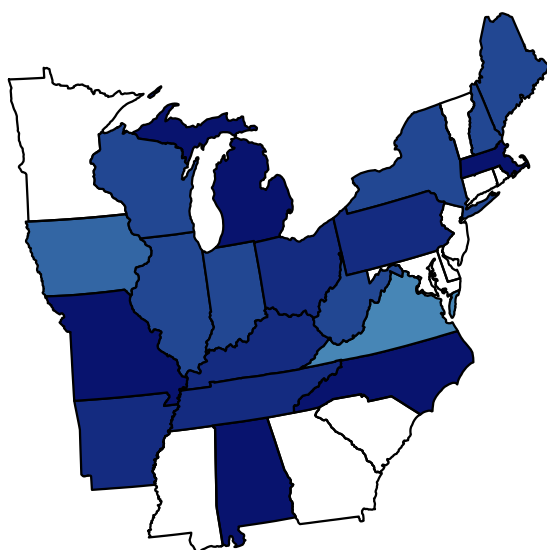


ADV_TALK

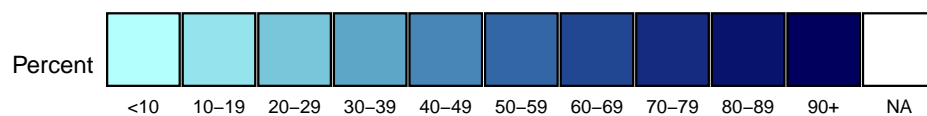
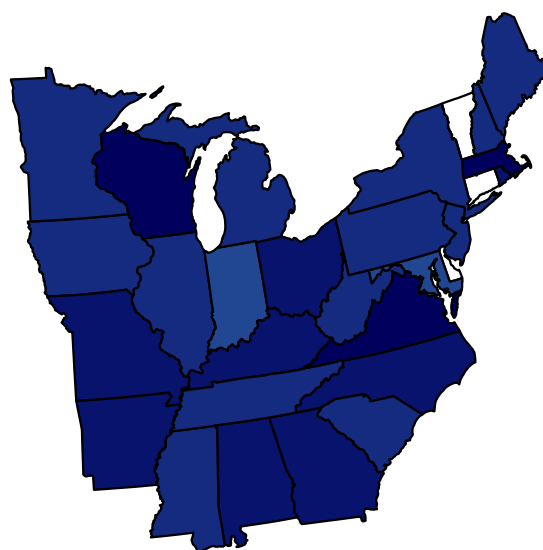
How have you received advice about your wooded land in the past 5 years? Talked to someone

Percent of respondents who said “Yes”

ADV_TALK – Landowners



ADV_TALK – Tree Farmers

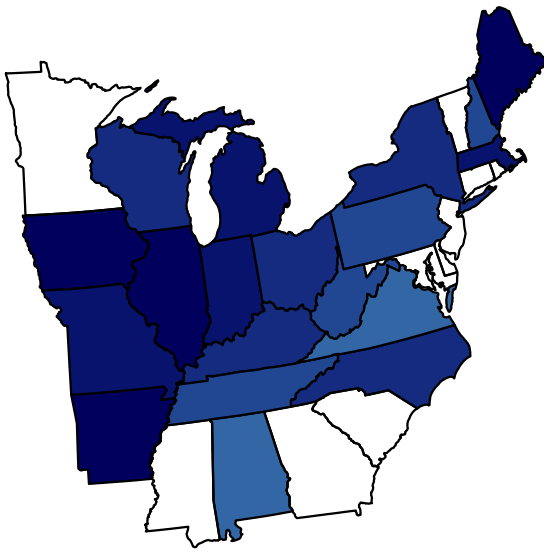


ADV_VISIT

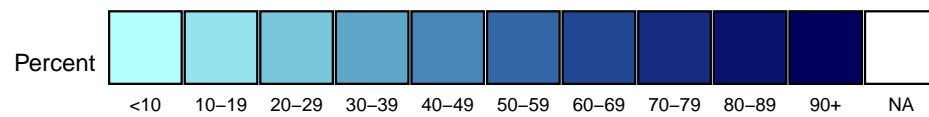
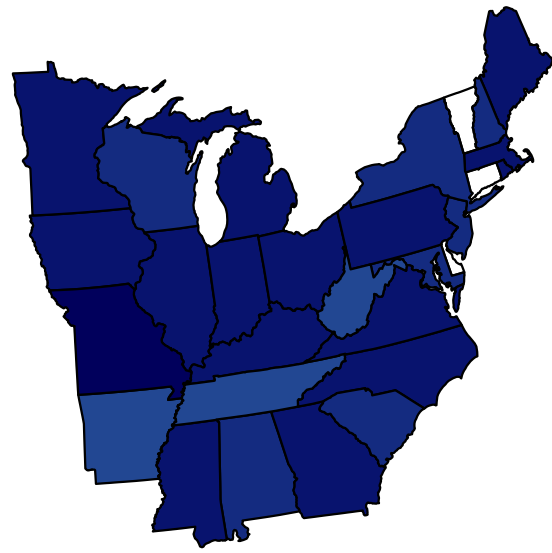
How have you received advice about your wooded land in the past 5 years? Someone visited my land

Percent of respondents who said “Yes”

ADV_VISIT – Landowners



ADV_VISIT – Tree Farmers

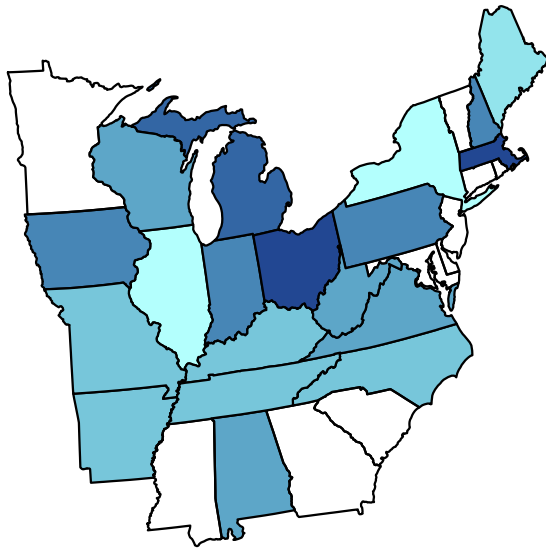


ADV_WRITTEN

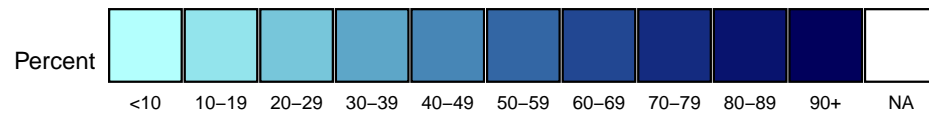
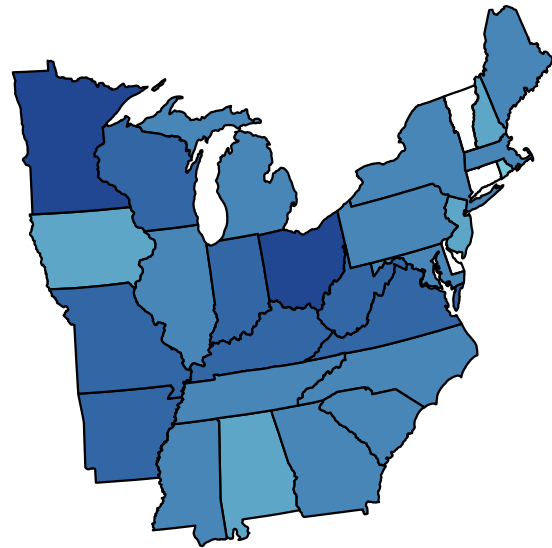
How have you received advice about your wooded land in the past 5 years? Received a brochure or other written material

Percent of respondents who said “Yes”

ADV_WRITTEN – Landowners



ADV_WRITTEN – Tree Farmers

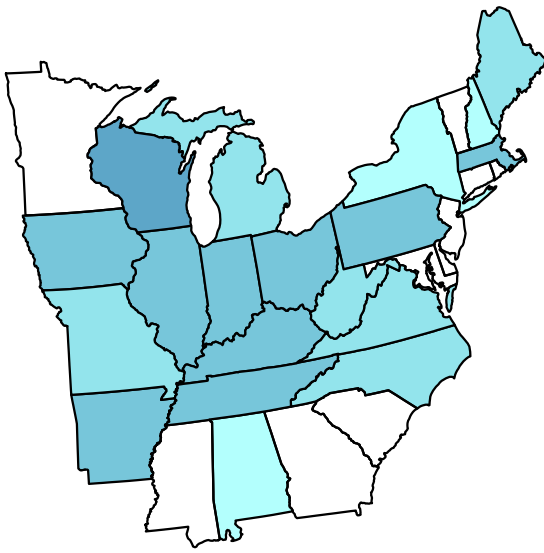


ADV_INTERNET

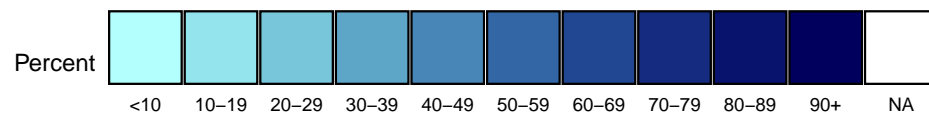
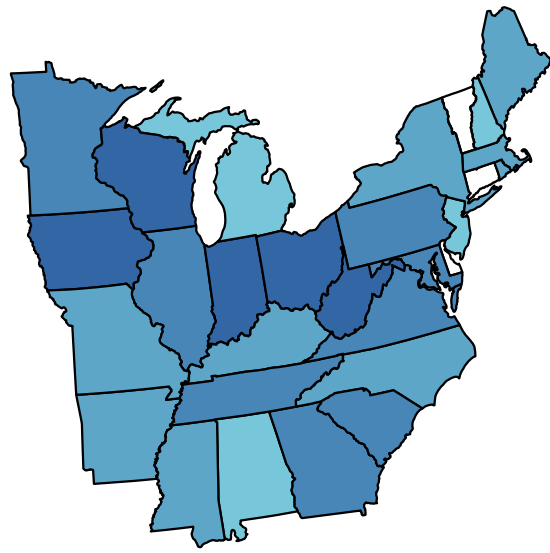
How have you received advice about your wooded land in the past 5 years? From the internet

Percent of respondents who said “Yes”

ADV_INTERNET – Landowners



ADV_INTERNET – Tree Farmers

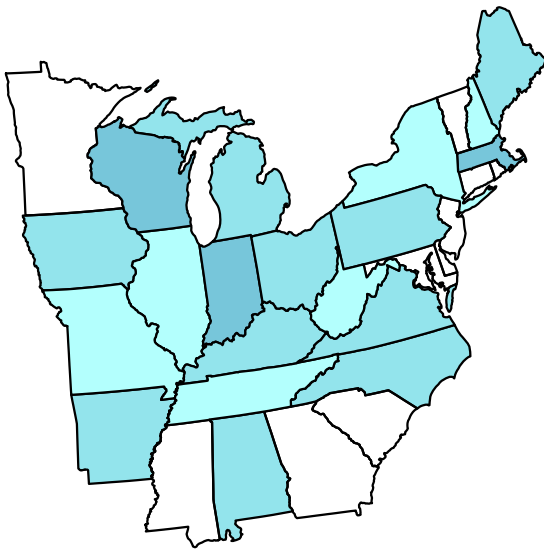


ADV_EMAIL

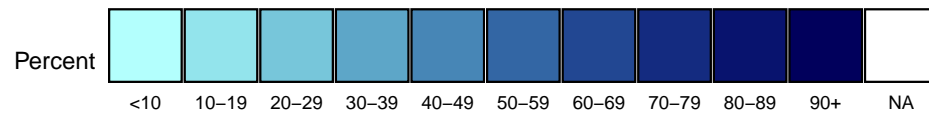
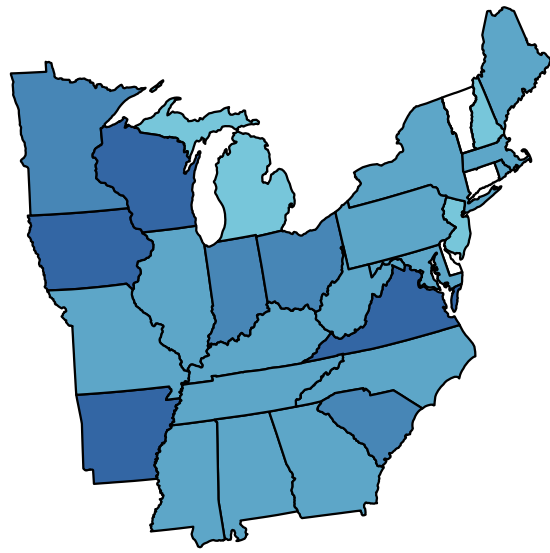
How have you received advice about your wooded land in the past 5 years? Email/E-newsletter

Percent of respondents who said “Yes”

ADV_EMAIL – Landowners



ADV_EMAIL – Tree Farmers

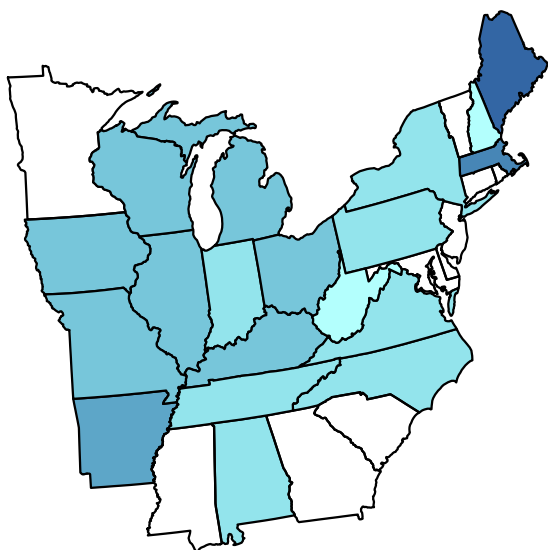


ADV_WORKSHOP

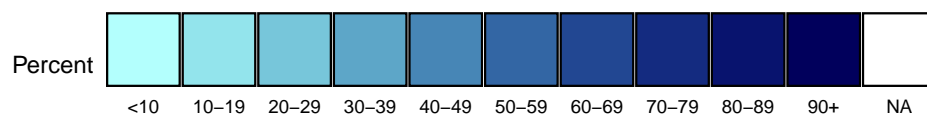
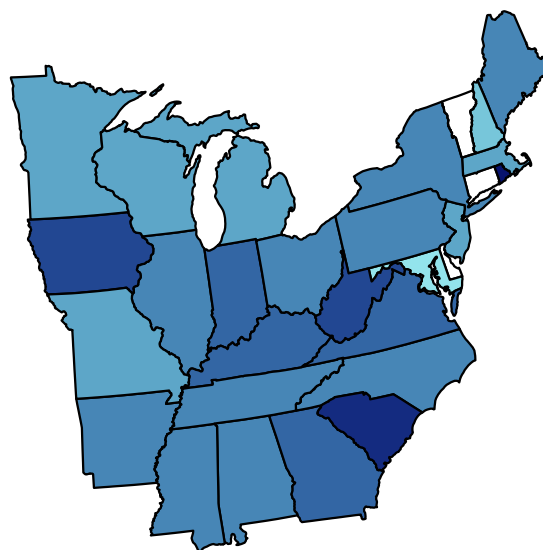
How have you received advice about your wooded land in the past 5 years? Attended a conference or workshop

Percent of respondents who said “Yes”

ADV_WORKSHOP – Landowners



ADV_WORKSHOP – Tree Farmers

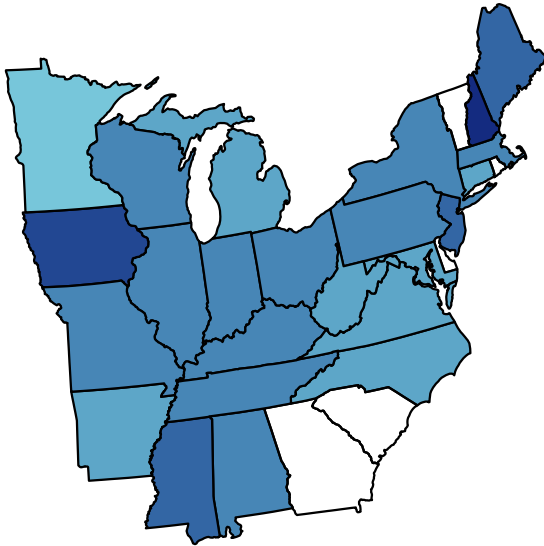


ACT_CUTSALE

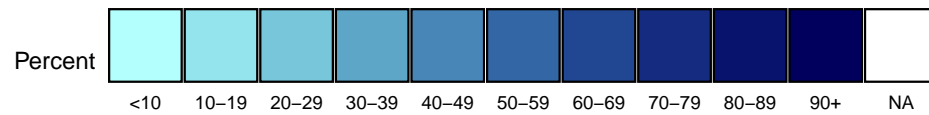
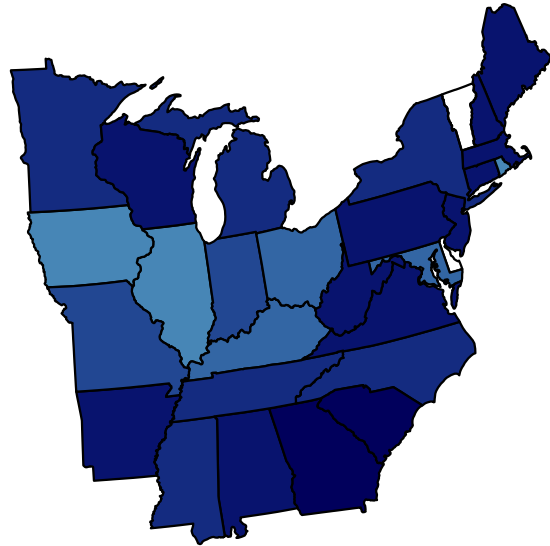
Which, if any, of the following activities have occurred on your wooded land since you have owned it? Cut trees for sale

Percent of respondents who said “Yes”

ACT_CUTSALE – Landowners



ACT_CUTSALE – Tree Farmers

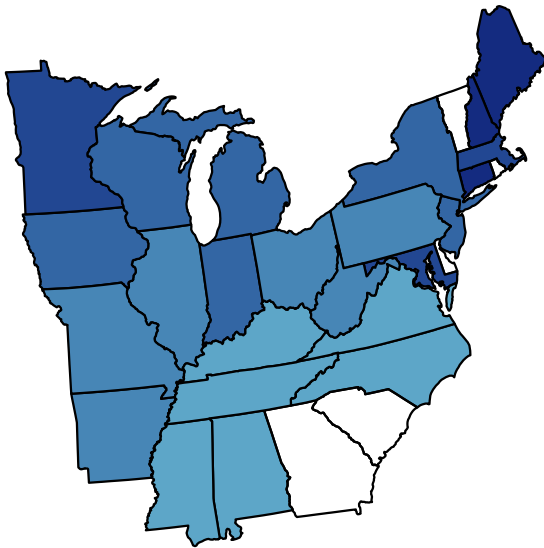


ACT_CUTNOSALE

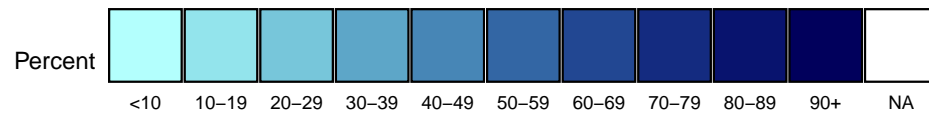
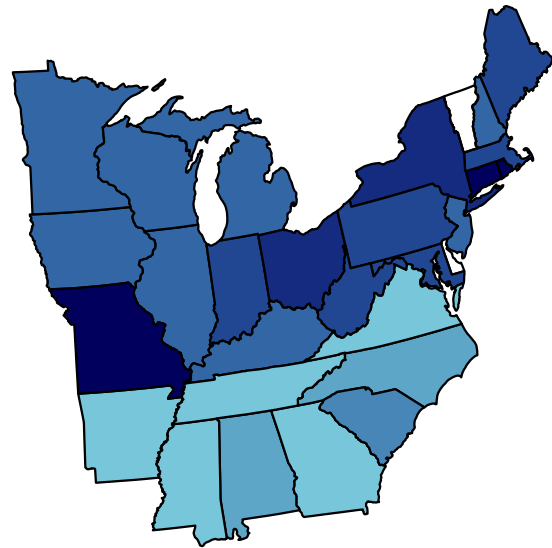
Which, if any, of the following activities have occurred on your wooded land since you have owned it? Cut trees not for sale

Percent of respondents who said “Yes”

ACT_CUTNOSALE – Landowners



ACT_CUTNOSALE – Tree Farmers



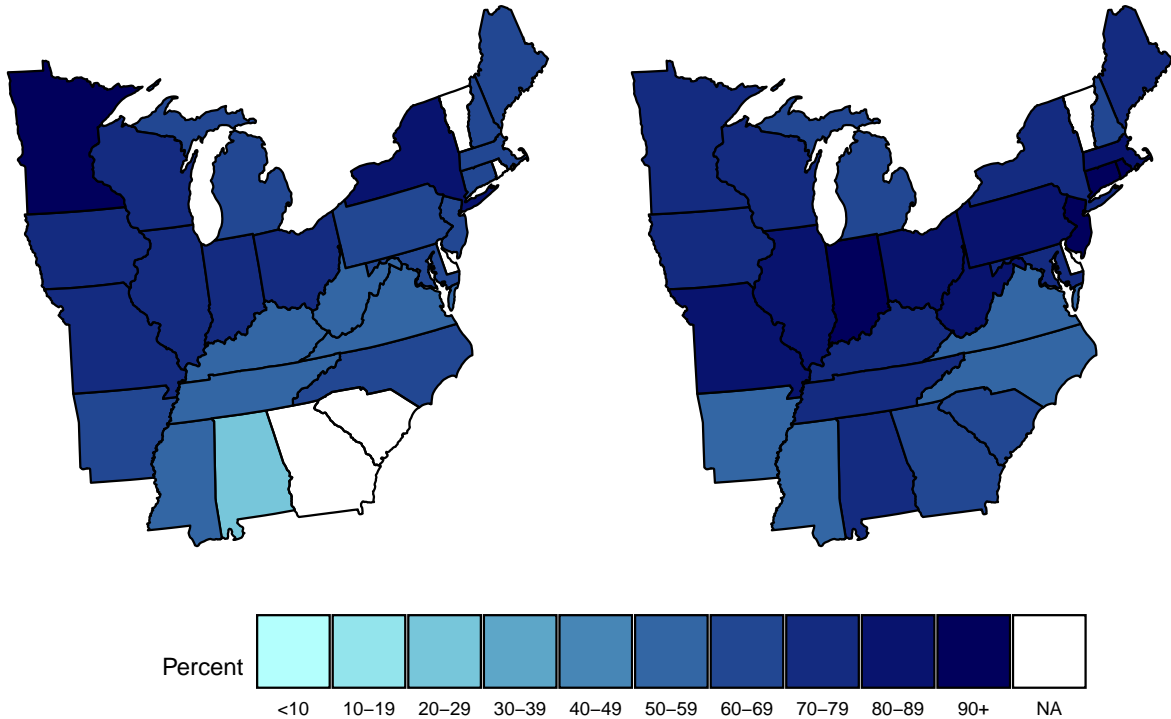
ACT_CUTBRUSH

Which, if any, of the following activities have occurred on your wooded land since you have owned it? Cut brush

Percent of respondents who said “Yes”

ACT_CUTBRUSH – Landowners

ACT_CUTBRUSH – Tree Farmers

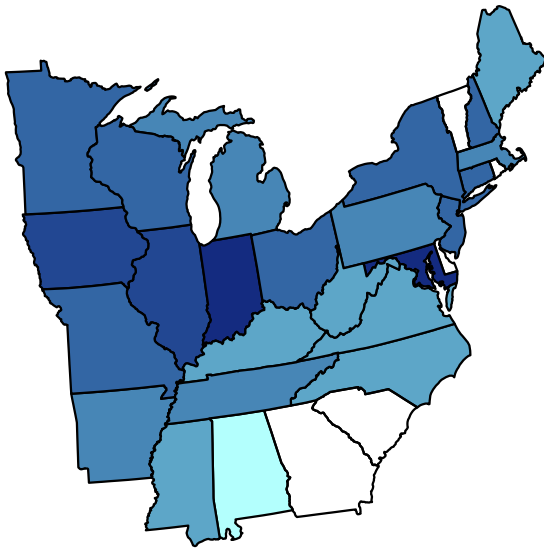


ACT_INVASIVE

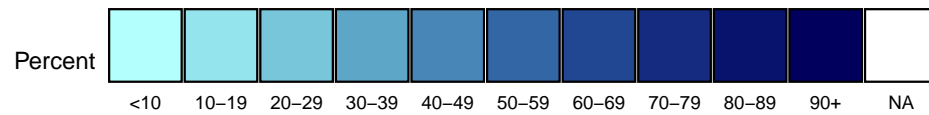
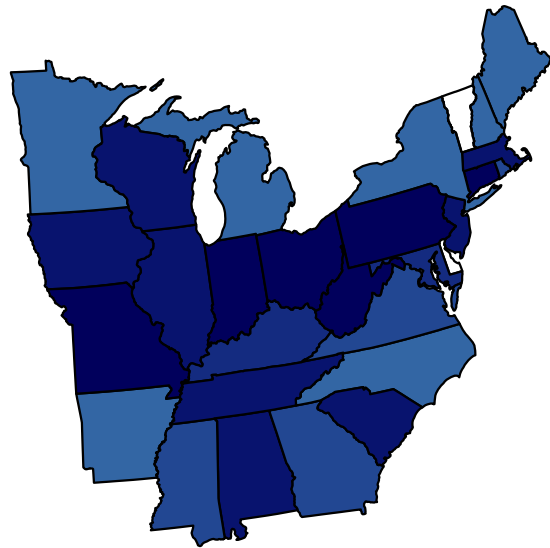
Which, if any, of the following activities have occurred on your wooded land since you have owned it? Reduced or removed invasive plants

Percent of respondents who said “Yes”

ACT_INVASIVE – Landowners



ACT_INVASIVE – Tree Farmers

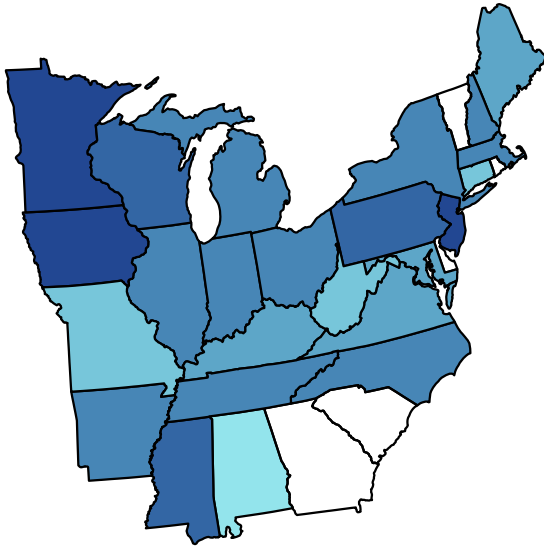


ACT_PLANT

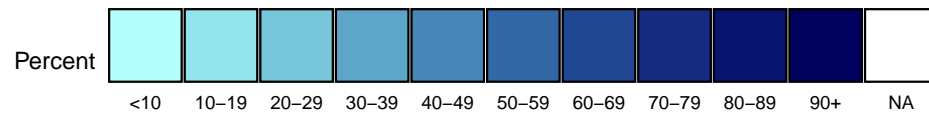
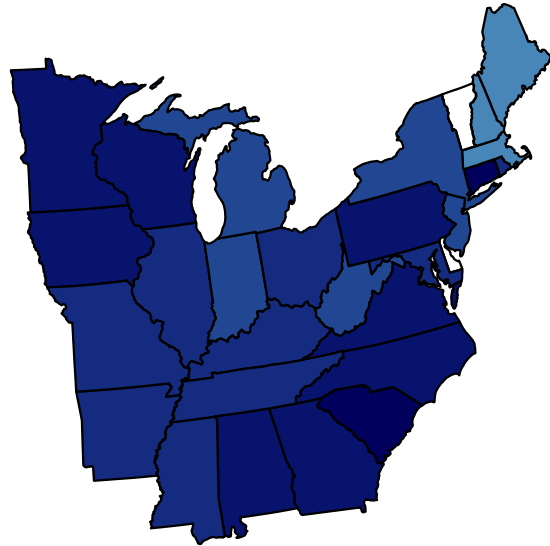
Which, if any, of the following activities have occurred on your wooded land since you have owned it? Planted trees

Percent of respondents who said “Yes”

ACT_PLANT – Landowners



ACT_PLANT – Tree Farmers

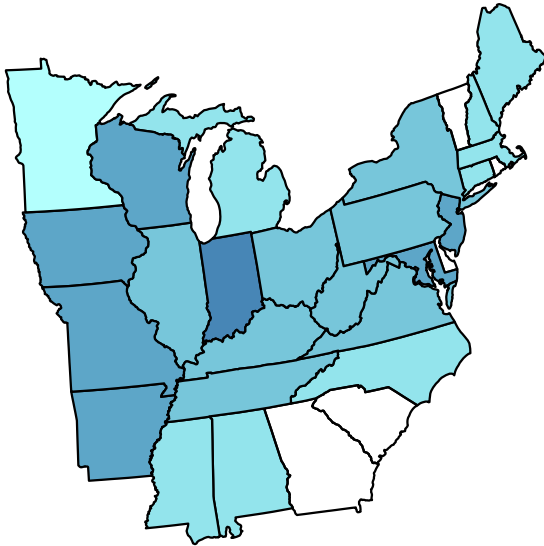


ACT_HERBICIDES

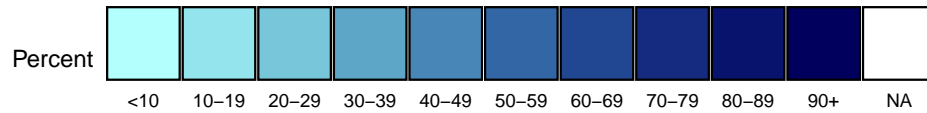
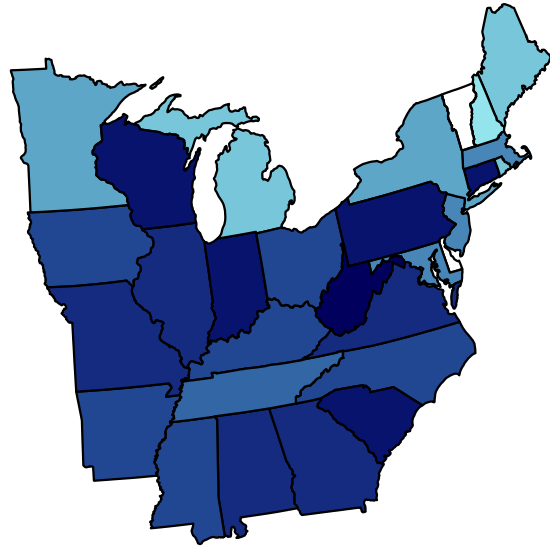
Which, if any, of the following activities have occurred on your wooded land since you have owned it? Used herbicides

Percent of respondents who said “Yes”

ACT_HERBICIDES – Landowners



ACT_HERBICIDES – Tree Farmers

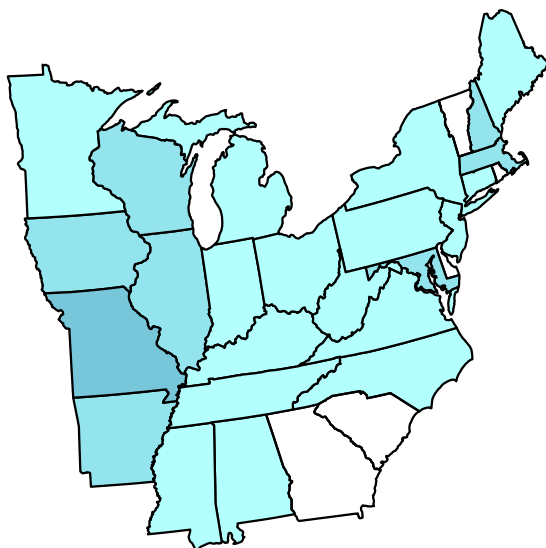


ACT_FIRE

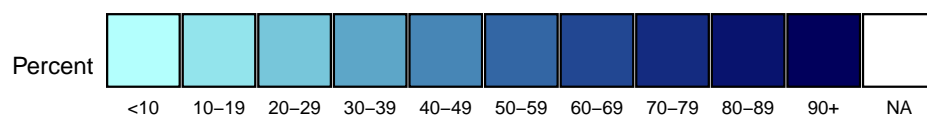
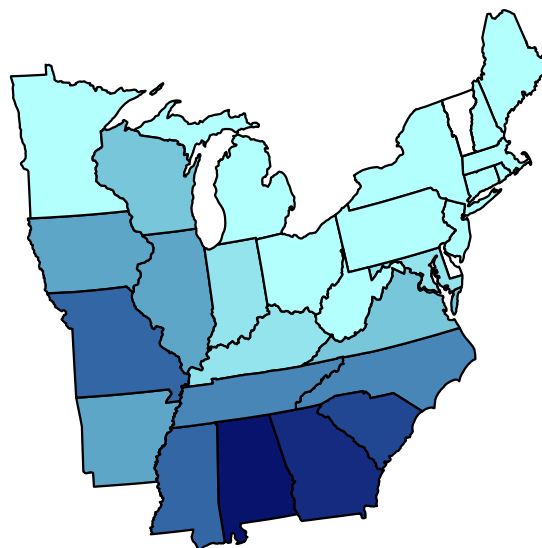
Which, if any, of the following activities have occurred on your wooded land since you have owned it? Used prescribed fire

Percent of respondents who said “Yes”

ACT_FIRE – Landowners



ACT_FIRE – Tree Farmers

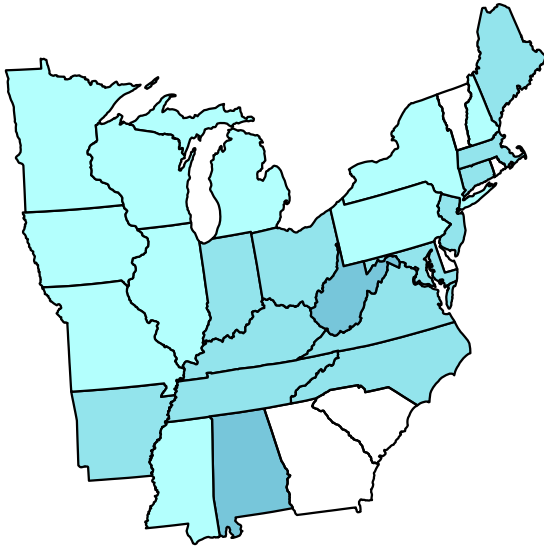


ACT_NONE

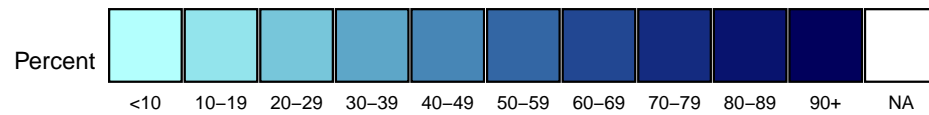
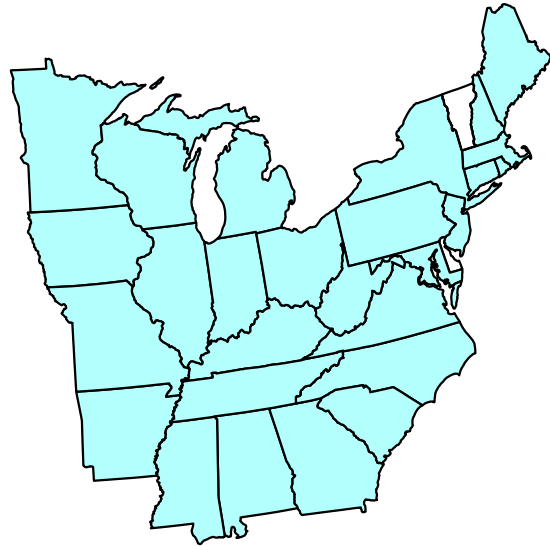
Which, if any, of the following activities have occurred on your wooded land since you have owned it? None of the above

Percent of respondents who said “Yes”

ACT_NONE – Landowners



ACT_NONE – Tree Farmers

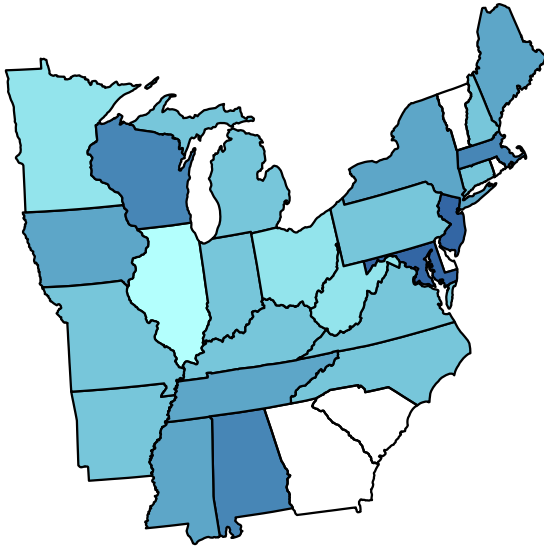


FUT_CUTSALE

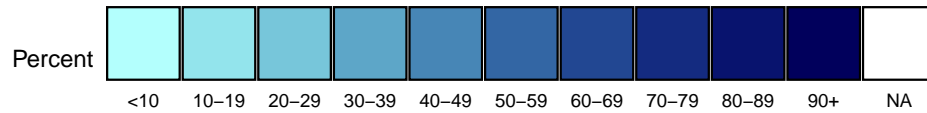
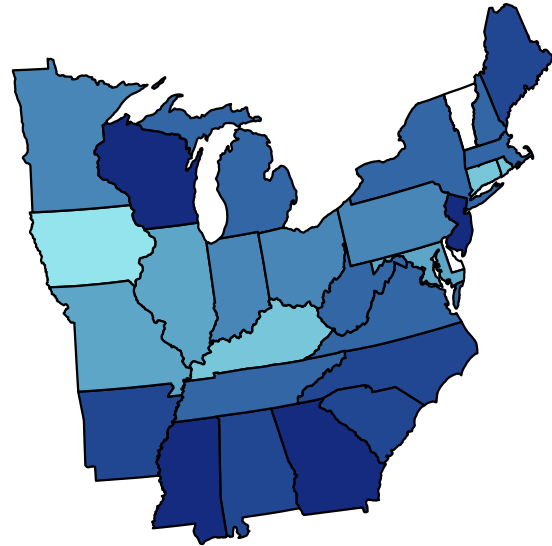
Which, if any, of the following activities will likely occur on your wooded land in the next 5 years? Cutting trees for sale

Percent of respondents who said “Yes”

FUT_CUTSALE – Landowners



FUT_CUTSALE – Tree Farmers

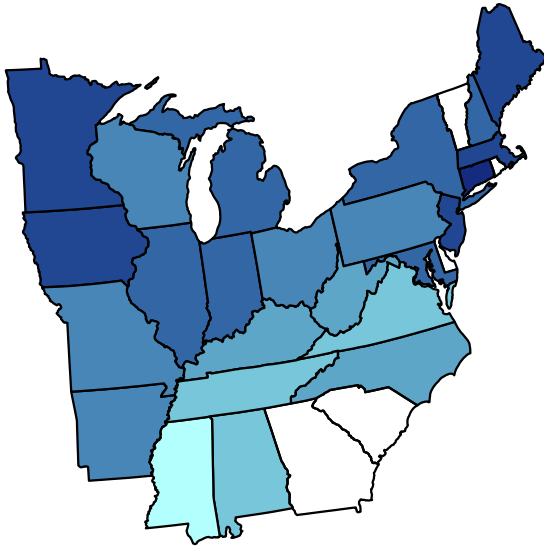


FUT_CUTNOSALE

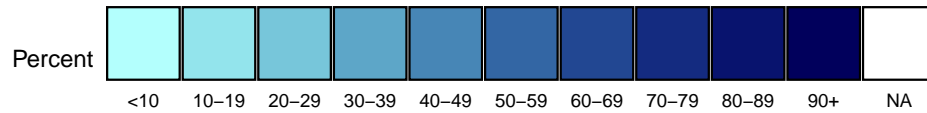
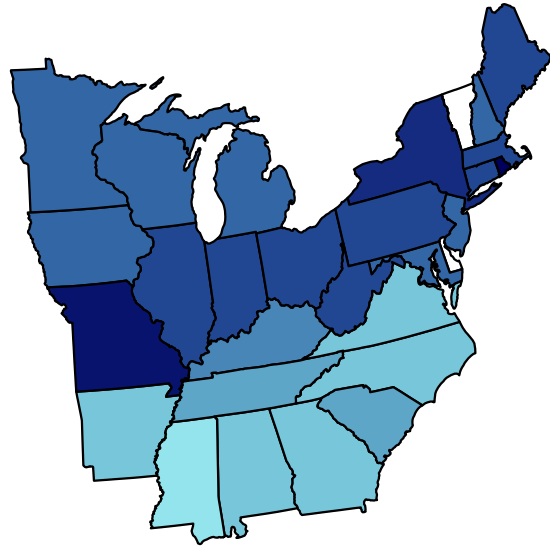
Which, if any, of the following activities will likely occur on your wooded land in the next 5 years? Cutting trees not for sale

Percent of respondents who said “Yes”

FUT_CUTNOSALE – Landowners



FUT_CUTNOSALE – Tree Farmers

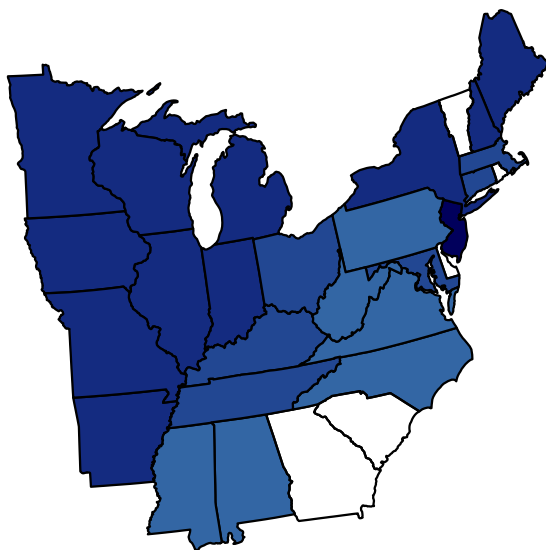


FUT_CUTBRUSH

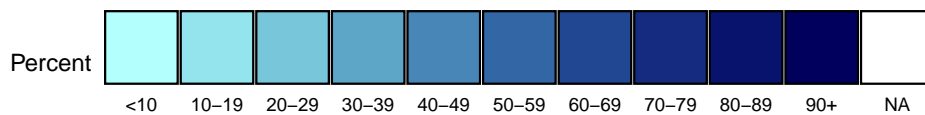
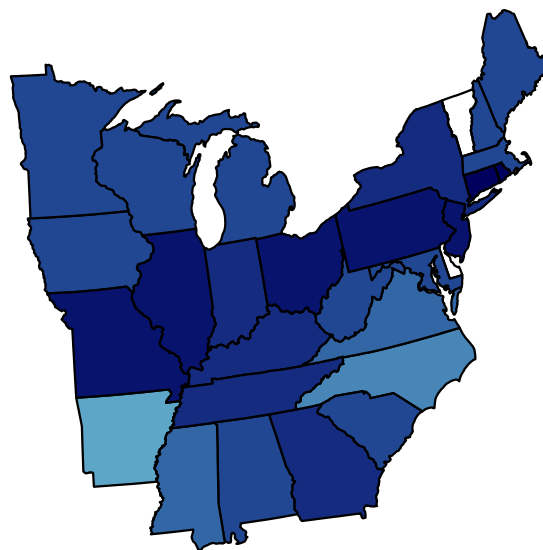
Which, if any, of the following activities will likely occur on your wooded land in the next 5 years? Cutting brush

Percent of respondents who said “Yes”

FUT_CUTBRUSH – Landowners



FUT_CUTBRUSH – Tree Farmers

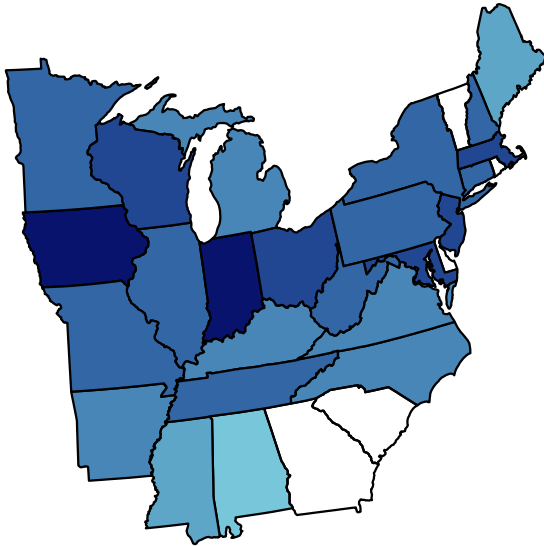


FUT_INVASIVES

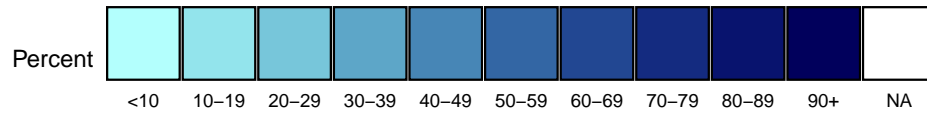
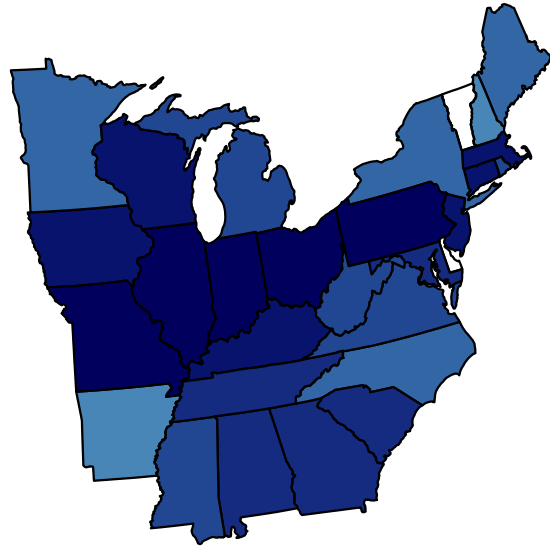
Which, if any, of the following activities will likely occur on your wooded land in the next 5 years? Reducing or removing invasive plants

Percent of respondents who said “Yes”

FUT_INVASIVES – Landowners



FUT_INVASIVES – Tree Farmers

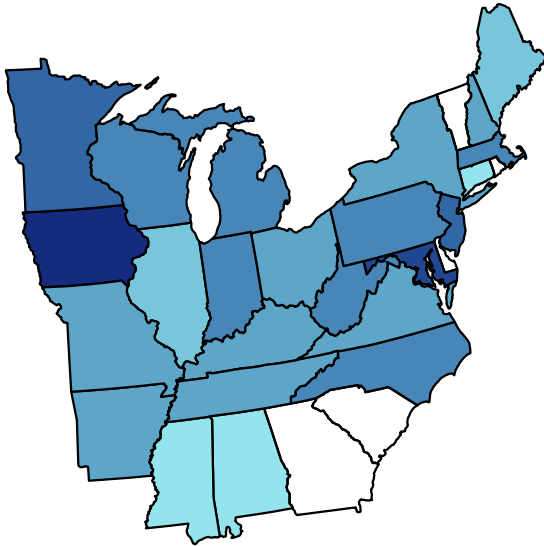


FUT_PLANT

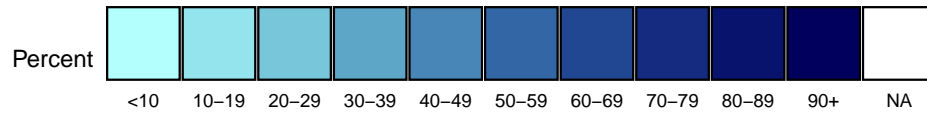
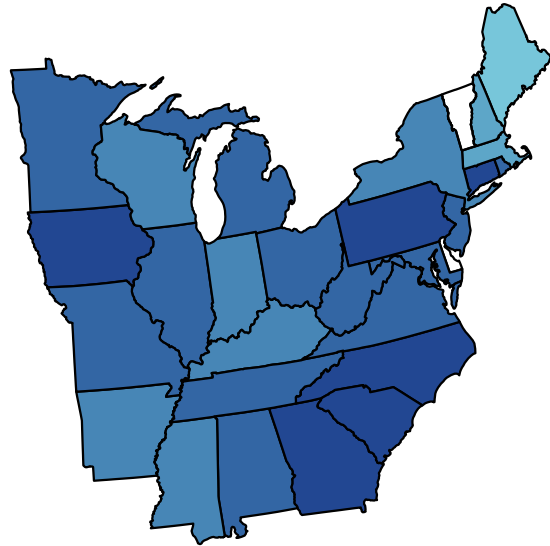
Which, if any, of the following activities will likely occur on your wooded land in the next 5 years? Planting trees

Percent of respondents who said “Yes”

FUT_PLANT – Landowners



FUT_PLANT – Tree Farmers

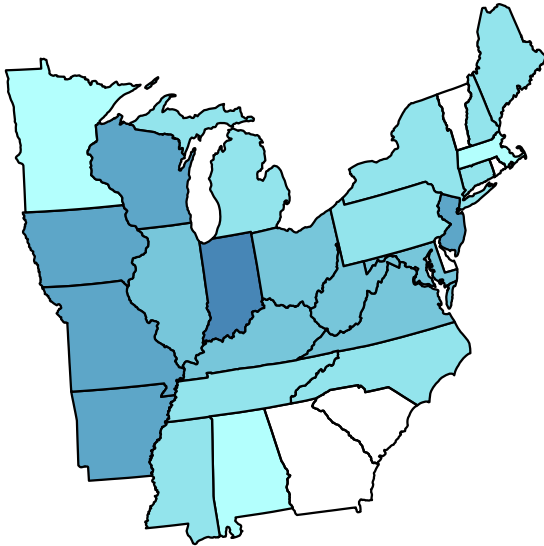


FUT_HERBICIDES

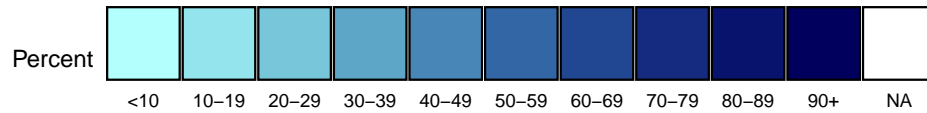
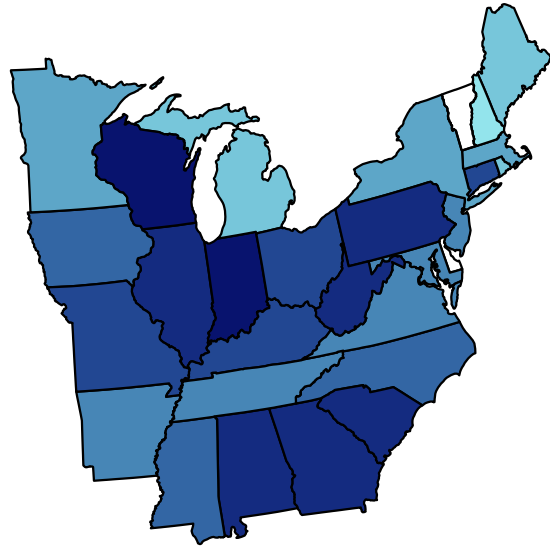
Which, if any, of the following activities will likely occur on your wooded land in the next 5 years? Using herbicides

Percent of respondents who said “Yes”

FUT_HERBICIDES – Landowners



FUT_HERBICIDES – Tree Farmers

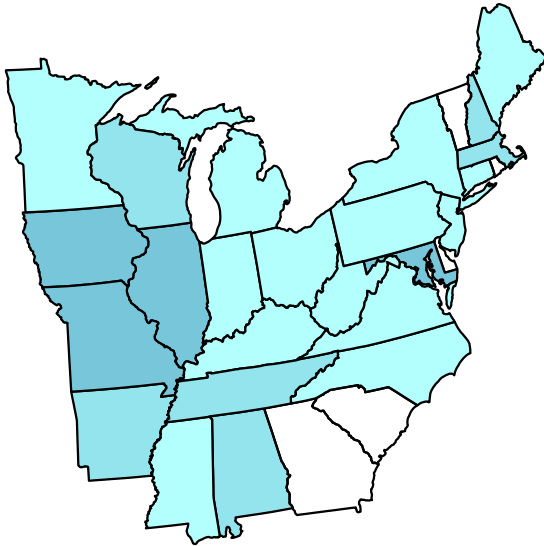


FUT_FIRE

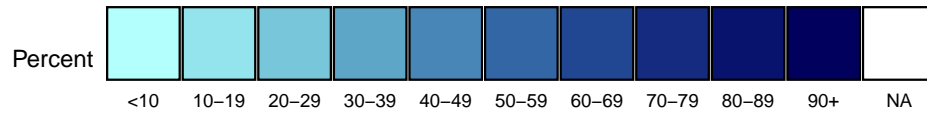
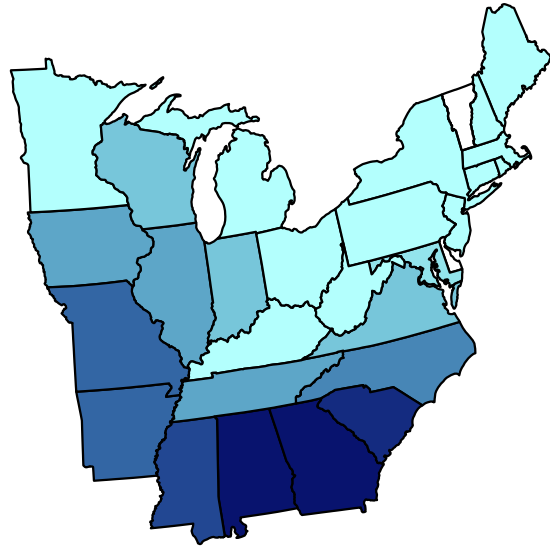
Which, if any, of the following activities will likely occur on your wooded land in the next 5 years? Using prescribed fire

Percent of respondents who said “Yes”

FUT_FIRE – Landowners



FUT_FIRE – Tree Farmers

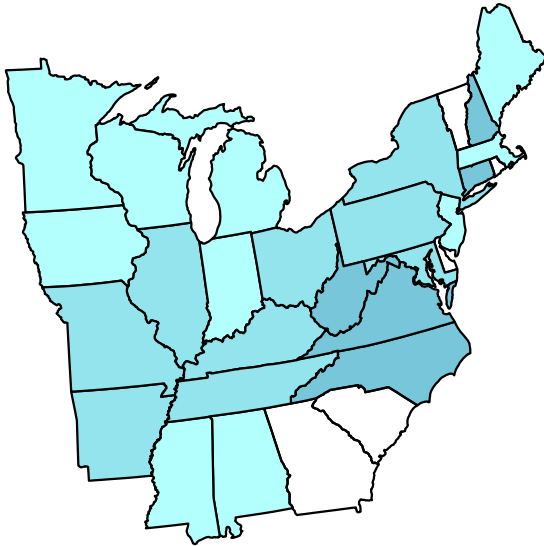


FUT_NONE

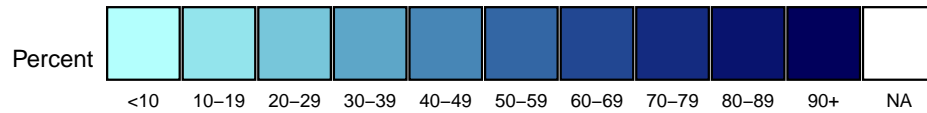
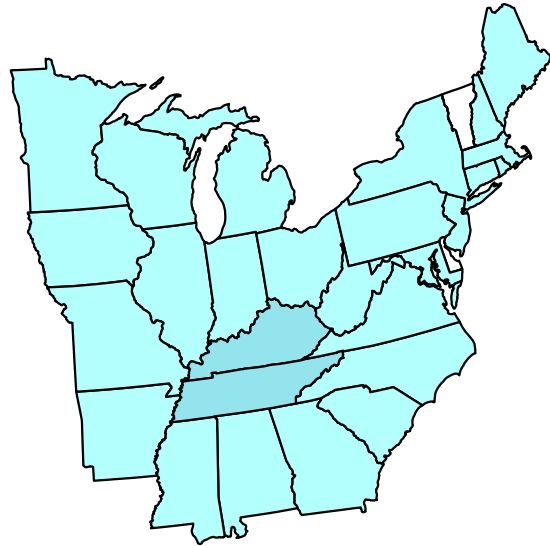
Which, if any, of the following activities will likely occur on your wooded land in the next 5 years? None of the above

Percent of respondents who said “Yes”

FUT_NONE – Landowners



FUT_NONE – Tree Farmers

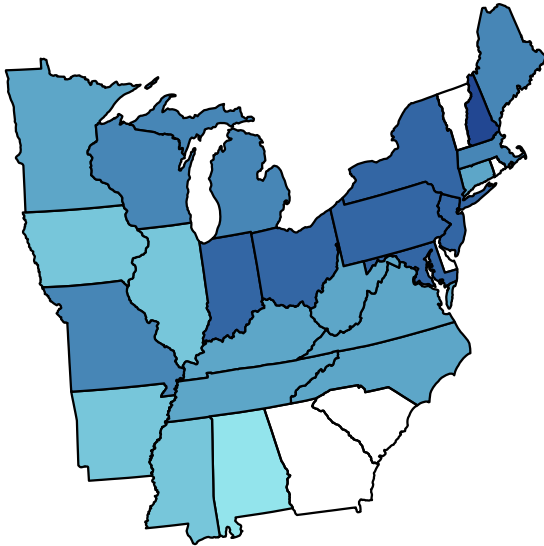


TTM_CUT_WILD

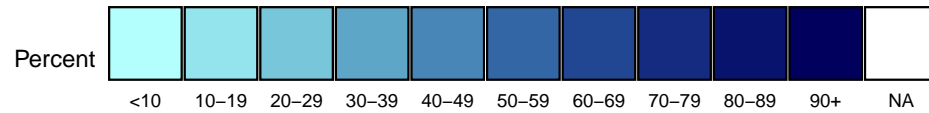
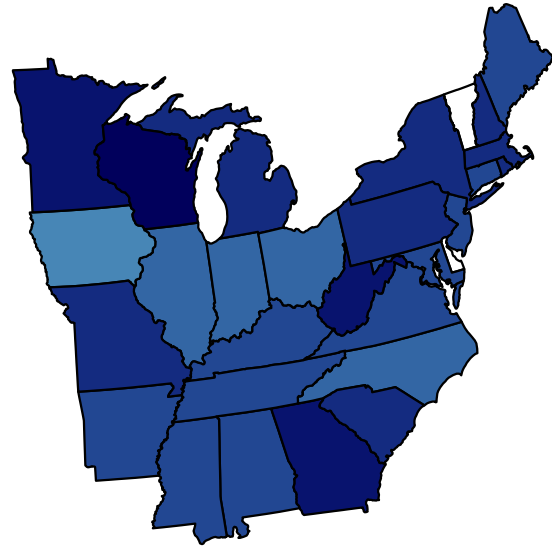
Which, if any, of the following do you see as potential benefits from cutting trees from your wooded land for sale? Cutting trees from my wooded land for sale... Will likely improve wildlife habitat

Percent of respondents who said “Yes” to this benefit

TTM_CUT_WILD – Landowners



TTM_CUT_WILD – Tree Farmers

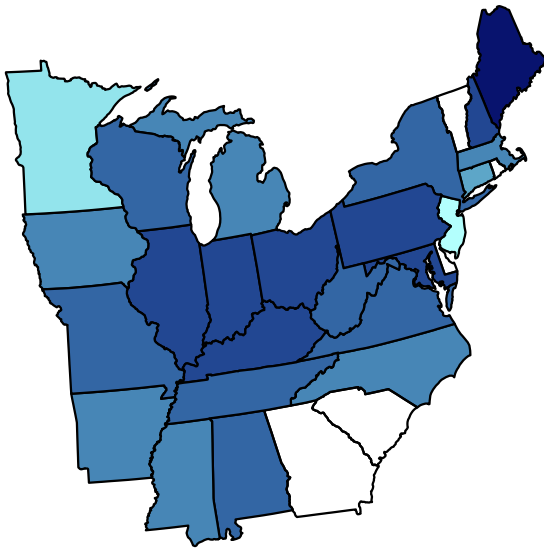


TTM_CUT_MONEY

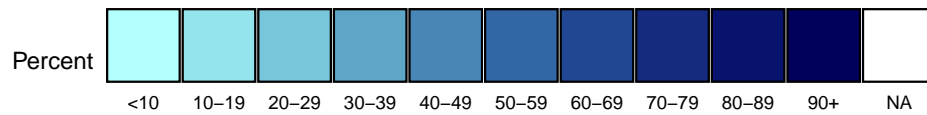
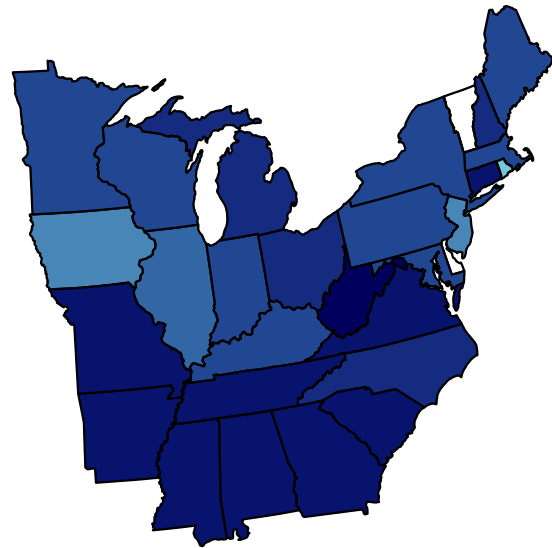
Which, if any, of the following do you see as potential benefits from cutting trees from your wooded land for sale? Cutting trees from my wooded land for sale... Will likely earn money for me

Percent of respondents who said "Yes" to this benefit

TTM_CUT_MONEY – Landowners



TTM_CUT_MONEY – Tree Farmers

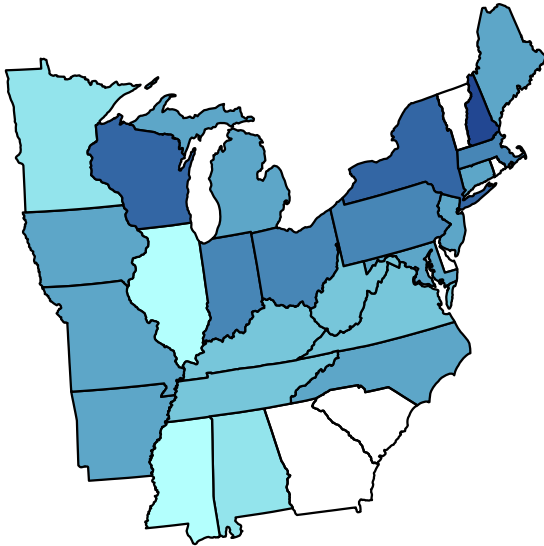


TTM_CUT_GOALS

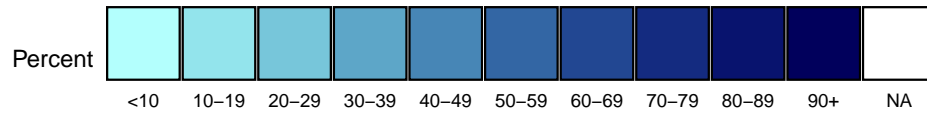
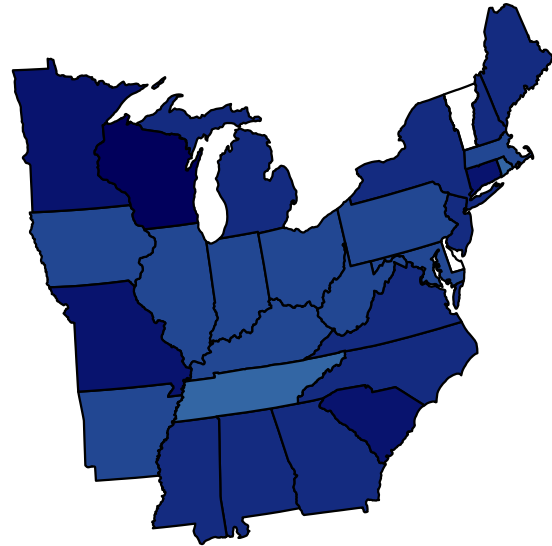
Which, if any, of the following do you see as potential benefits from cutting trees from your wooded land for sale? Cutting trees from my wooded land for sale... Will likely further my goals for my wooded land

Percent of respondents who said “Yes” to this benefit

TTM_CUT_GOALS – Landowners



TTM_CUT_GOALS – Tree Farmers

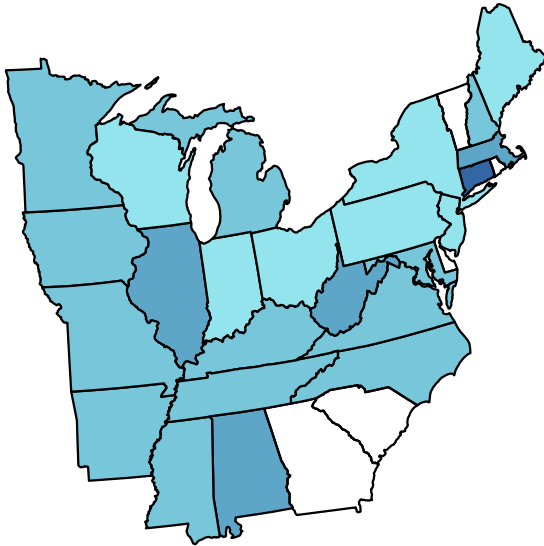


TTM_CUT_NOBEN

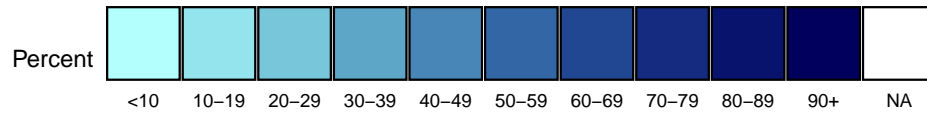
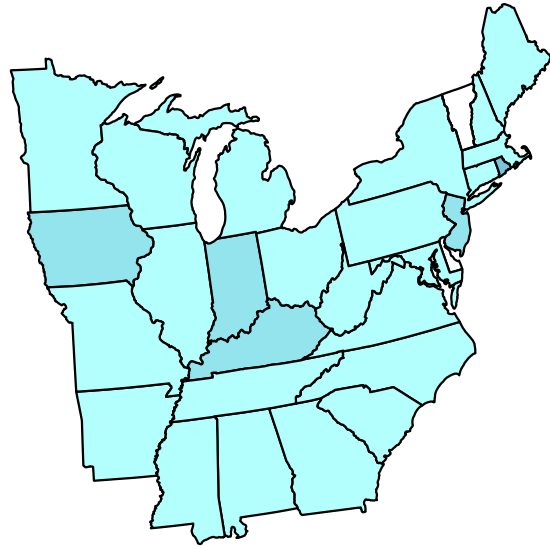
Which, if any, of the following do you see as potential benefits from cutting trees from your wooded land for sale? Cutting trees from my wooded land for sale... None of the above

Percent of respondents who said “Yes” to this benefit

TTM_CUT_NOBEN – Landowners



TTM_CUT_NOBEN – Tree Farmers

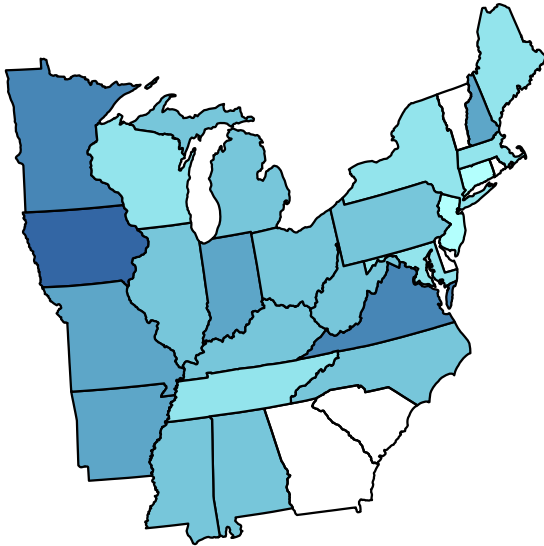


TTM_CUT_DAMAGE

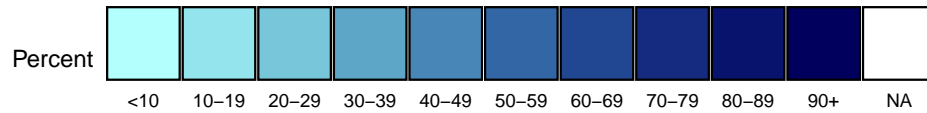
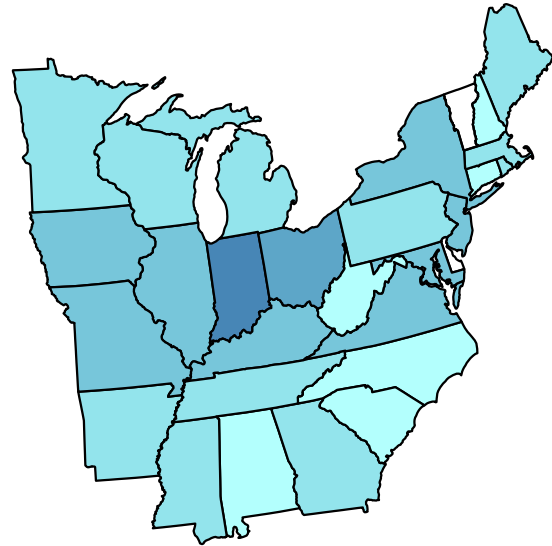
Which, if any, of the following do you see as potential challenges to cutting trees from your wooded land for sale? Cutting trees for sale will likely damage my wooded land

Percent of respondents who said “Yes” to this challenge

TTM_CUT_DAMAGE – Landowners



TTM_CUT_DAMAGE – Tree Farmers

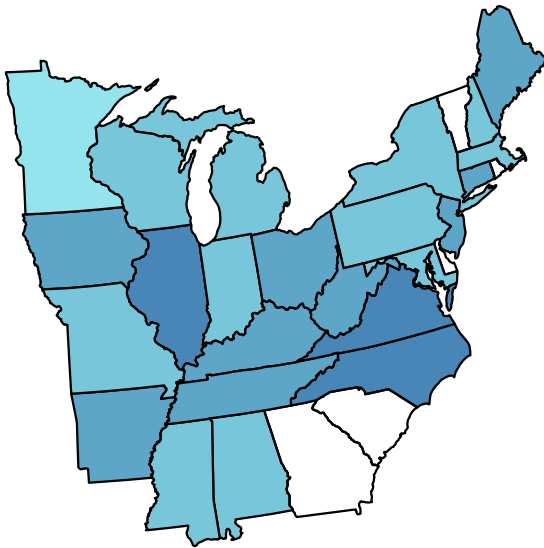


TTM_CUT_UGLY

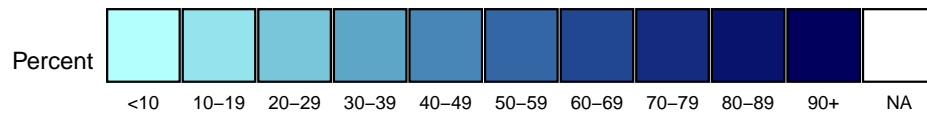
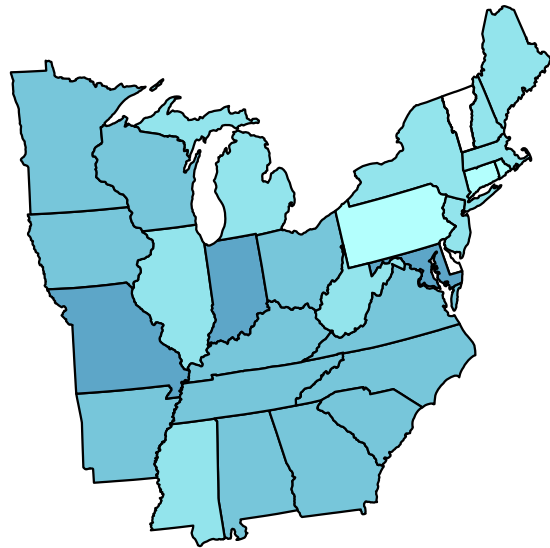
Which, if any, of the following do you see as potential challenges to cutting trees from your wooded land for sale? Cutting trees for sale will likely look ugly

Percent of respondents who said “Yes” to this challenge

TTM_CUT_UGLY – Landowners



TTM_CUT_UGLY – Tree Farmers



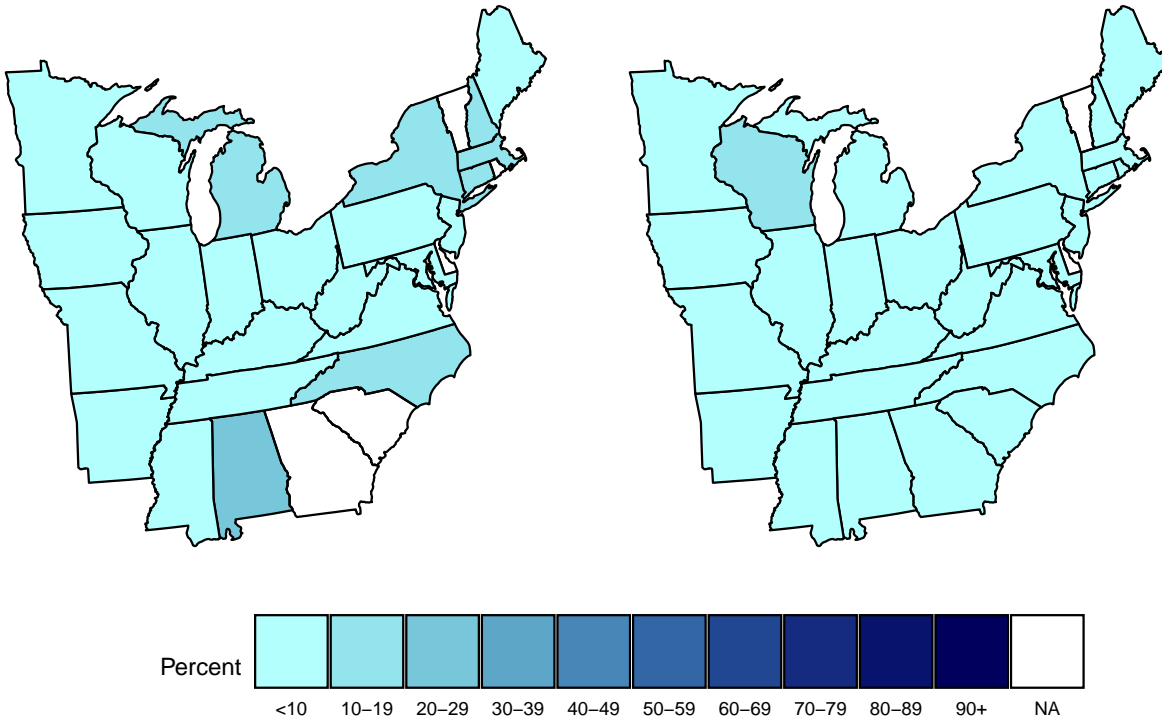
TTM_CUT_NEIGH

Which, if any, of the following do you see as potential challenges to cutting trees from your wooded land for sale? My neighbors would dislike it if I cut trees for sale

Percent of respondents who said “Yes” to this challenge

TTM_CUT_NEIGH – Landowners

TTM_CUT_NEIGH – Tree Farmers



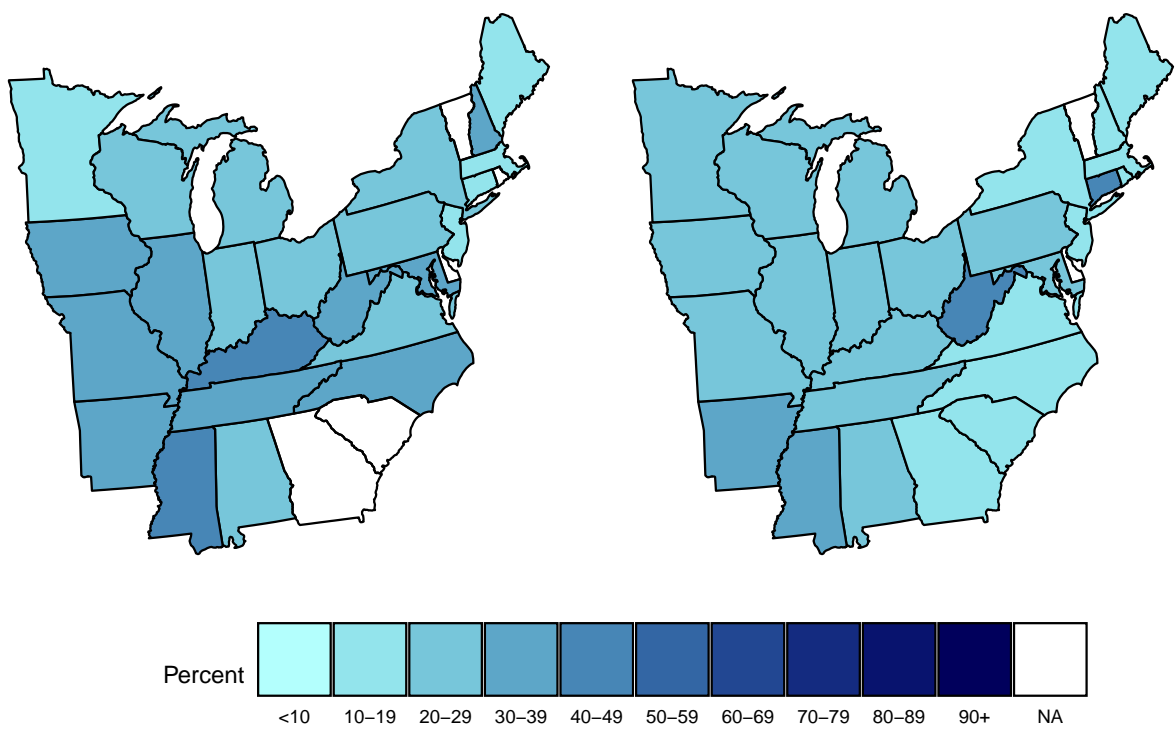
TTM_CUT_LOGGER

Which, if any, of the following do you see as potential challenges to cutting trees from your wooded land for sale? It is difficult to find a logger I trust

Percent of respondents who said “Yes” to this challenge

TTM_CUT_LOGGER – Landowners

TTM_CUT_LOGGER – Tree Farmers

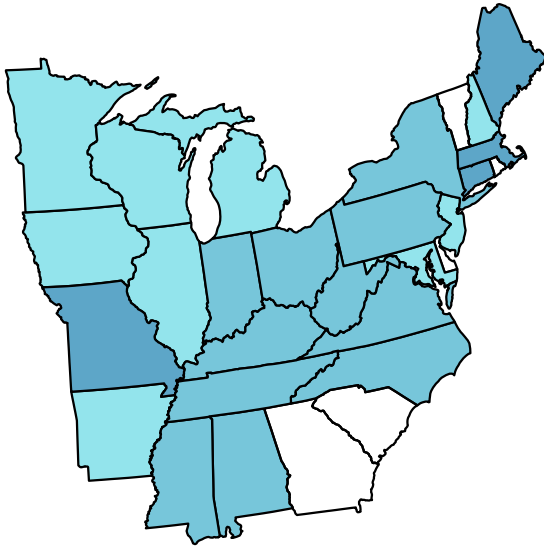


TTM_CUT_INFO

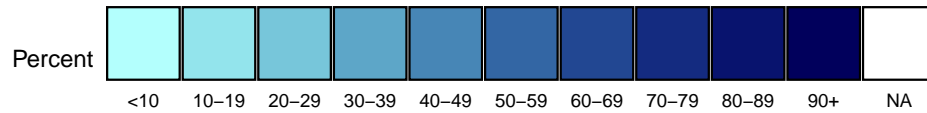
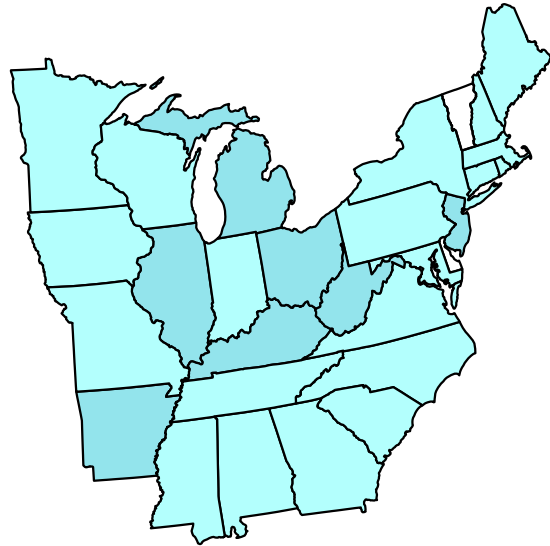
Which, if any, of the following do you see as potential challenges to cutting trees from your wooded land for sale? I don't have enough information about cutting trees for sale

Percent of respondents who said "Yes" to this challenge

TTM_CUT_INFO – Landowners



TTM_CUT_INFO – Tree Farmers

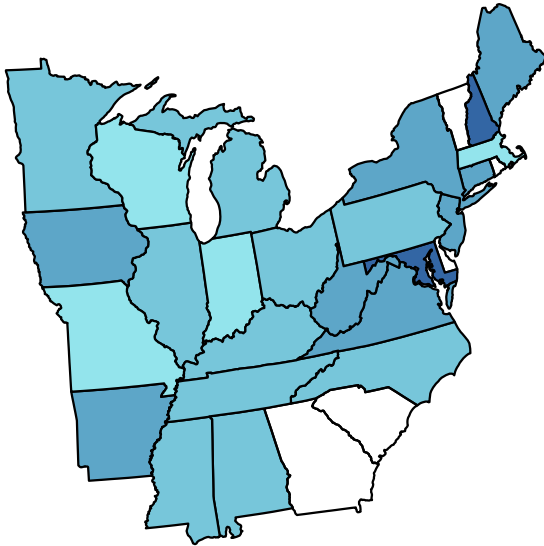


TTM_CUT_NO_GOAL

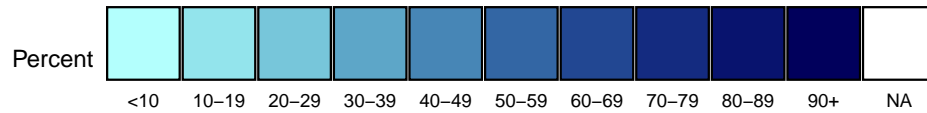
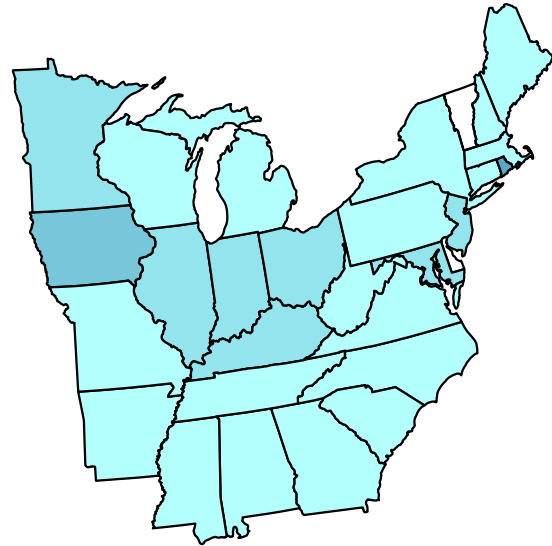
Which, if any, of the following do you see as potential challenges to cutting trees from your wooded land for sale? Cutting trees does not further my goals for my wooded land

Percent of respondents who said “Yes” to this challenge

TTM_CUT_NO_GOAL – Landowners



TTM_CUT_NO_GOAL – Tree Farmers

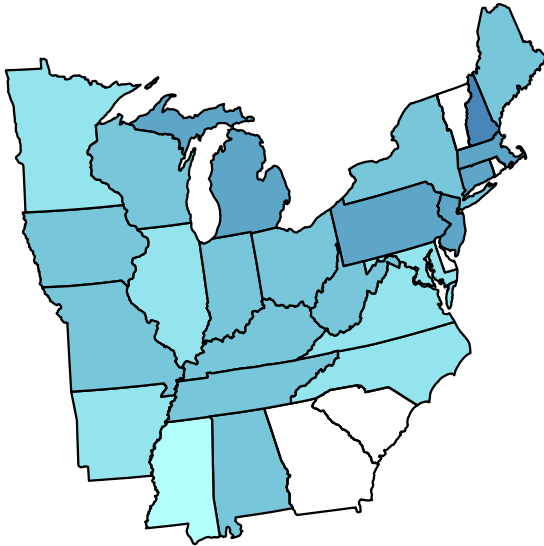


TTM_CUT_NOCHALL

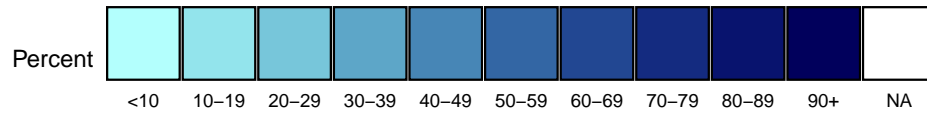
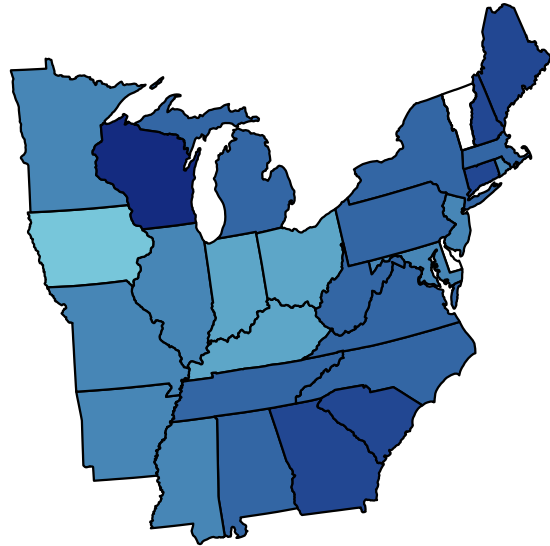
Which, if any, of the following do you see as potential challenges to cutting trees from your wooded land for sale? None of the above

Percent of respondents who said “Yes” to this challenge

TTM_CUT_NOCHALL – Landowners

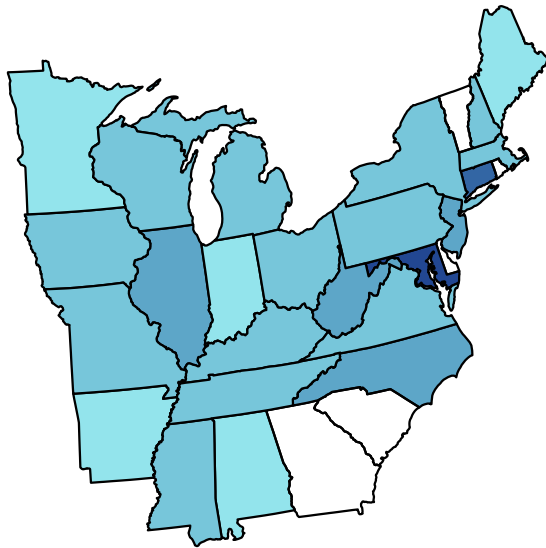


TTM_CUT_NOCHALL – Tree Farmers



Which of these would you be willing to accept on some part of your land, with the understanding that new trees will grow back after the cutting? No cutting

HARVEST_NOCUT – Landowners

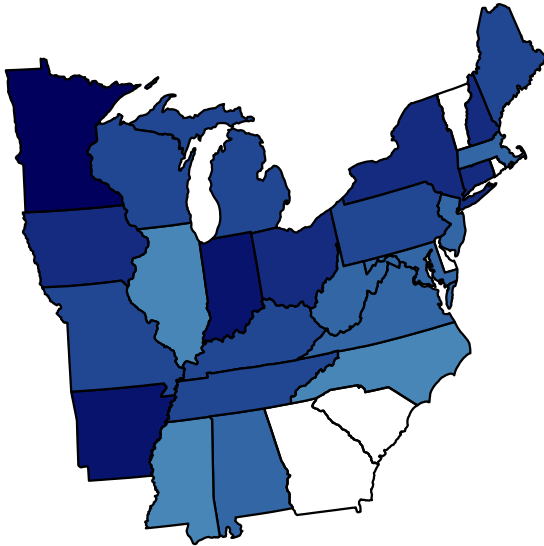


HARVEST_FEW

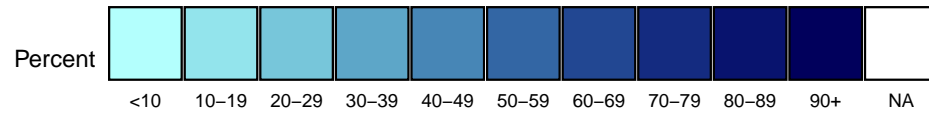
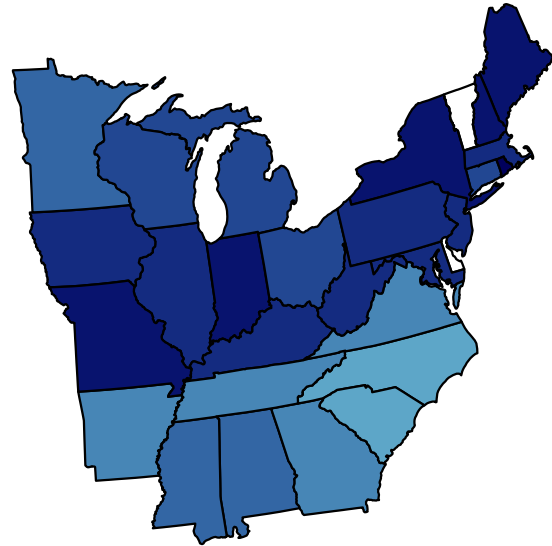
Which of these would you be willing to accept on some part of your land, with the understanding that new trees will grow back after the cutting? Cutting a few trees per acre

Percent of respondents who said “Yes” to this level of harvest

HARVEST_FEW – Landowners



HARVEST_FEW – Tree Farmers



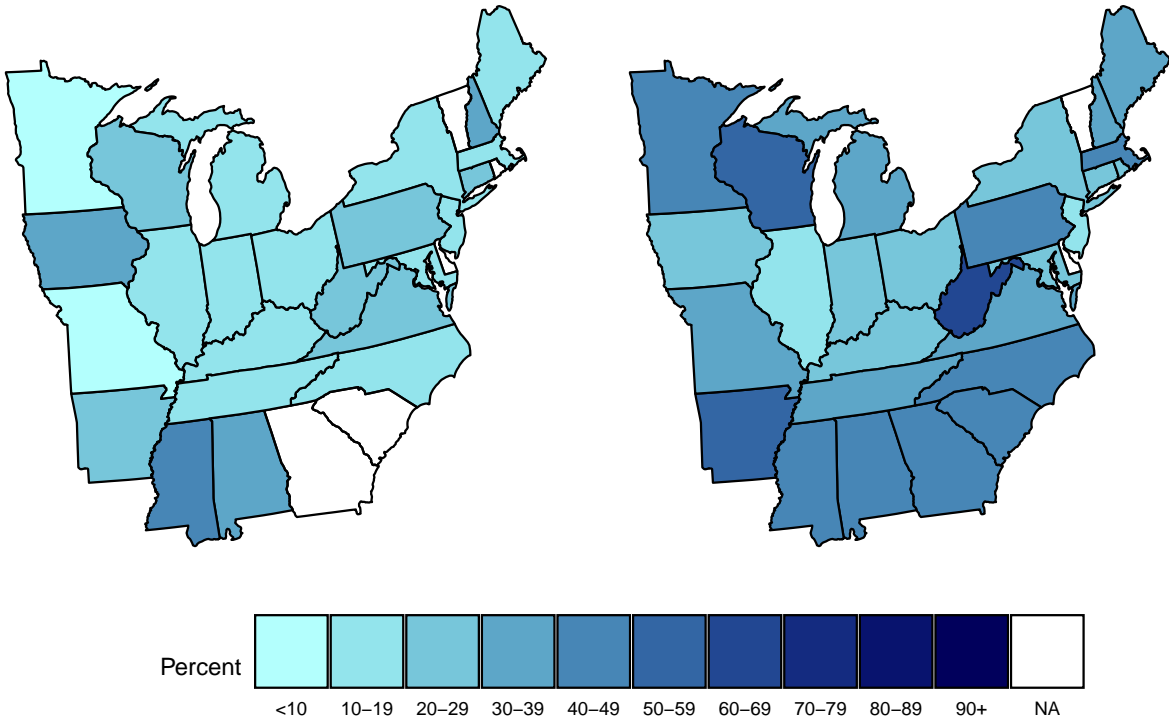
HARVEST_MANY

Which of these would you be willing to accept on some part of your land, with the understanding that new trees will grow back after the cutting? Cutting many trees per acre

Percent of respondents who said “Yes” to this level of harvest

HARVEST_MANY – Landowners

HARVEST_MANY – Tree Farmers

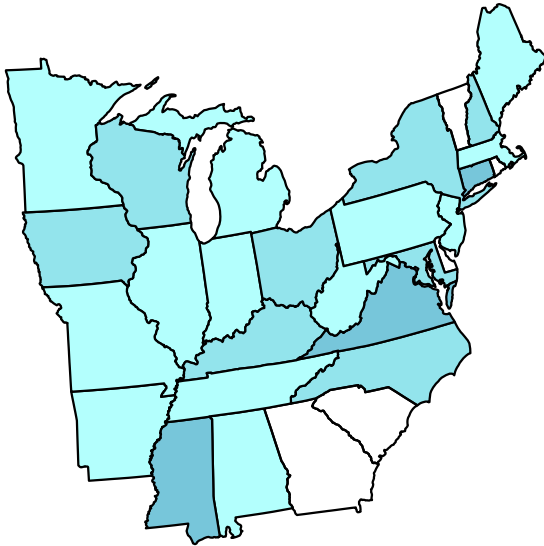


HARVEST_CLUSTER

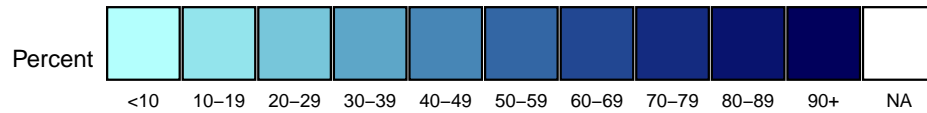
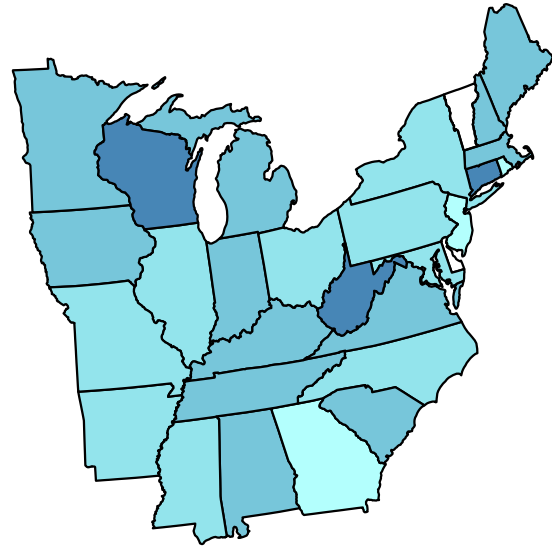
Which of these would you be willing to accept on some part of your land, with the understanding that new trees will grow back after the cutting? Cutting many trees per acre, clustered together

Percent of respondents who said “Yes” to this level of harvest

HARVEST_CLUSTER – Landowners



HARVEST_CLUSTER – Tree Farmers

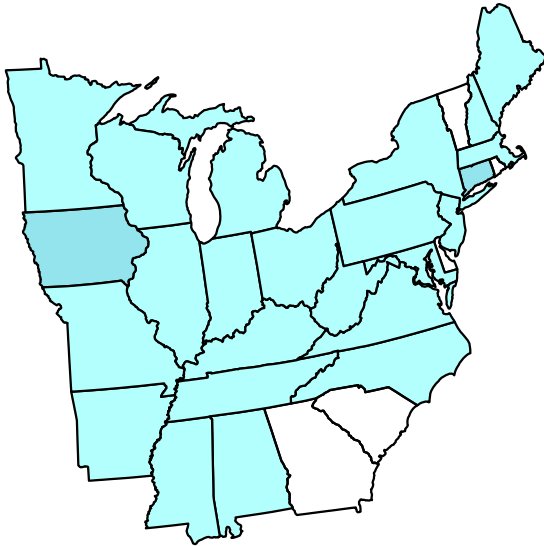


HARVEST_MOST

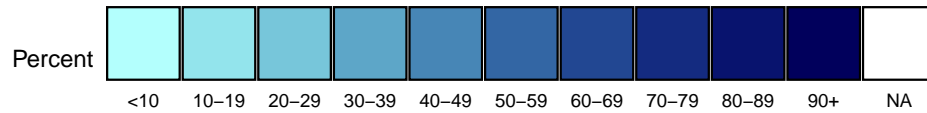
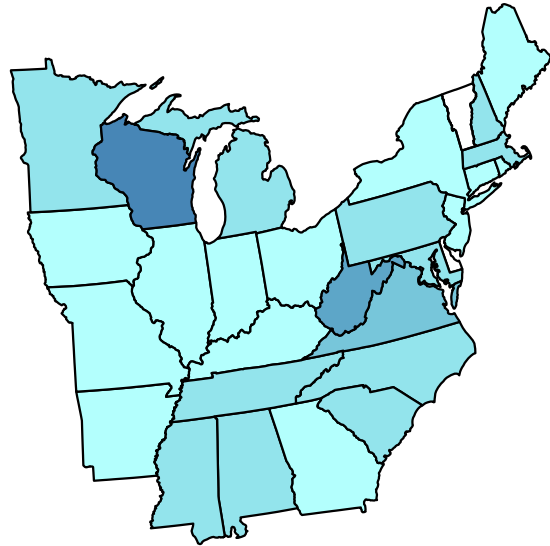
Which of these would you be willing to accept on some part of your land, with the understanding that new trees will grow back after the cutting? Cutting most trees per acre

Percent of respondents who said “Yes” to this level of harvest

HARVEST_MOST – Landowners



HARVEST_MOST – Tree Farmers

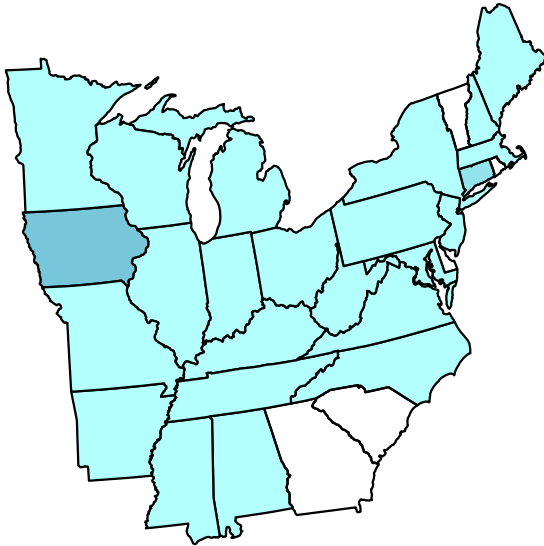


HARVEST_ALL

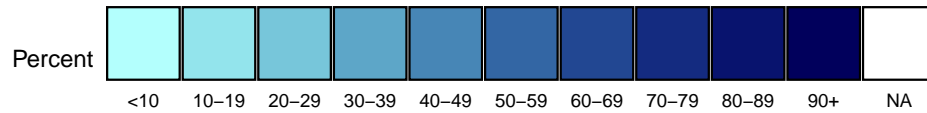
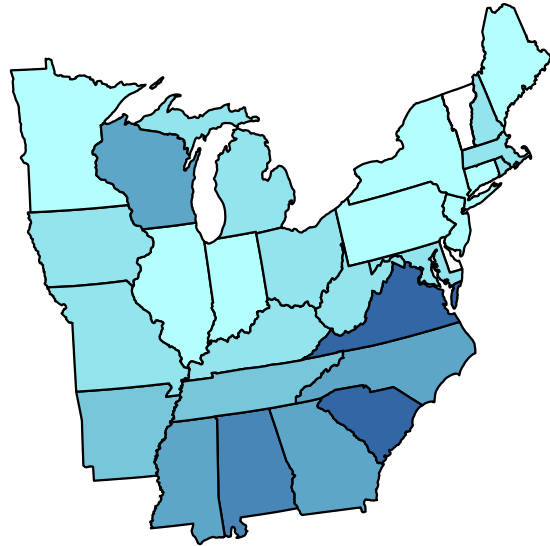
Which of these would you be willing to accept on some part of your land, with the understanding that new trees will grow back after the cutting? Cutting all trees per acre

Percent of respondents who said “Yes” to this level of harvest

HARVEST_ALL – Landowners



HARVEST_ALL – Tree Farmers

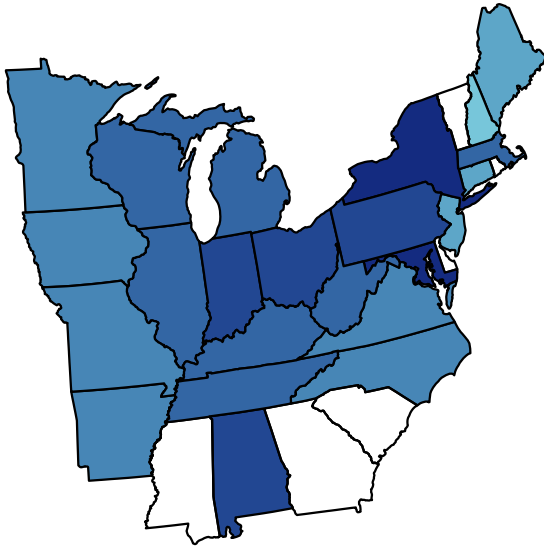


TTM_PLANT_WILD

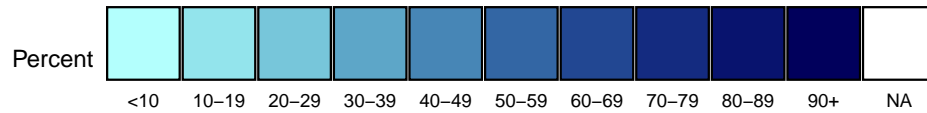
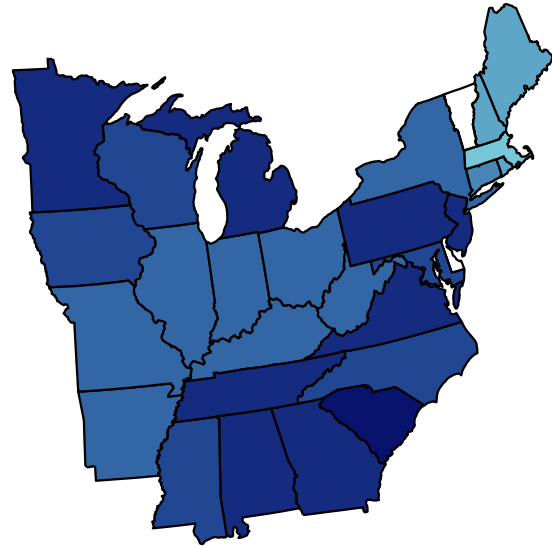
Which, if any, of the following do you see as potential benefits from planting trees on your wooded land?
Planting trees on my wooded land... Will likely improve wildlife habitat

Percent of respondents who said “Yes” to this benefit

TTM_PLANT_WILD – Landowners



TTM_PLANT_WILD – Tree Farmers

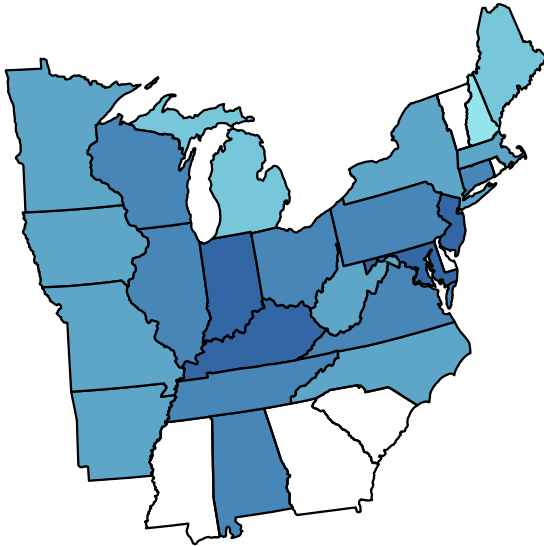


TTM_PLANT_TIMBER

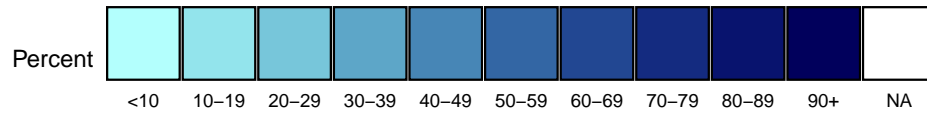
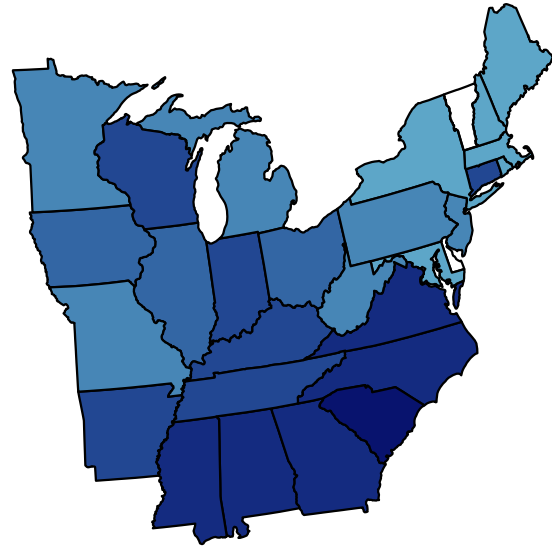
Which, if any, of the following do you see as potential benefits from planting trees on your wooded land?
Planting trees on my wooded land... Will likely increase future timber quality

Percent of respondents who said “Yes” to this benefit

TTM_PLANT_TIMBER – Landowners



TTM_PLANT_TIMBER – Tree Farmers

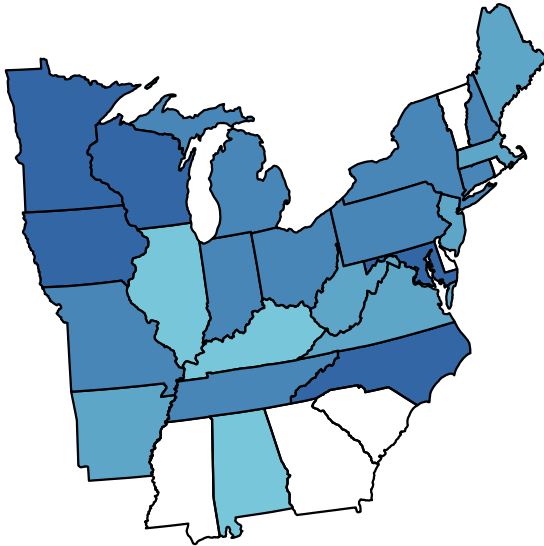


TTM_PLANT_GOALS

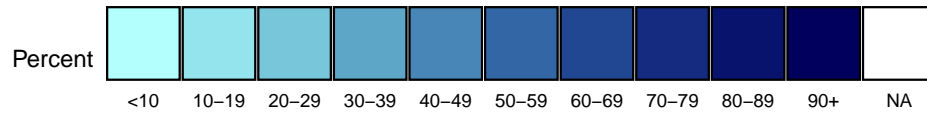
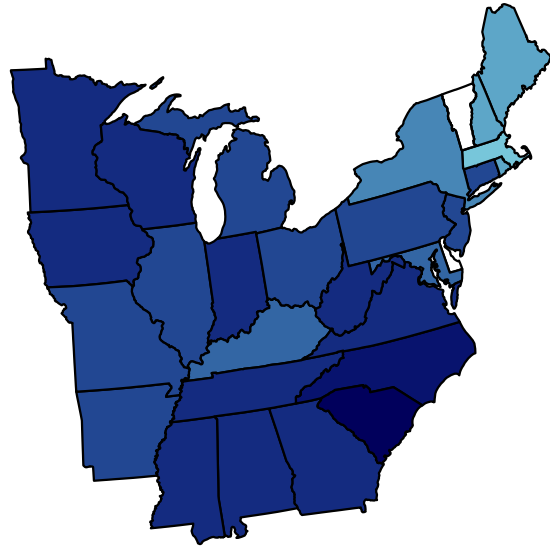
Which, if any, of the following do you see as potential benefits from planting trees on your wooded land?
Planting trees on my wooded land... Will likely further my goals for my wooded land

Percent of respondents who said “Yes” to this benefit

TTM_PLANT_GOALS – Landowners



TTM_PLANT_GOALS – Tree Farmers

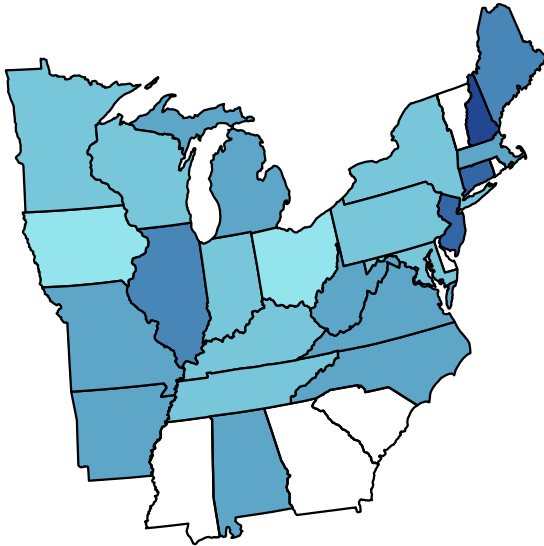


TTM_PLANT_NOBEN

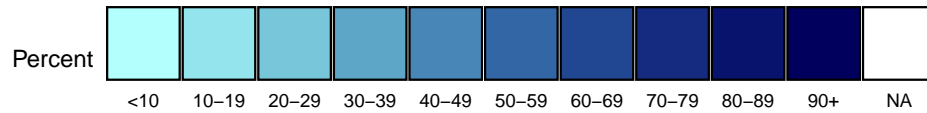
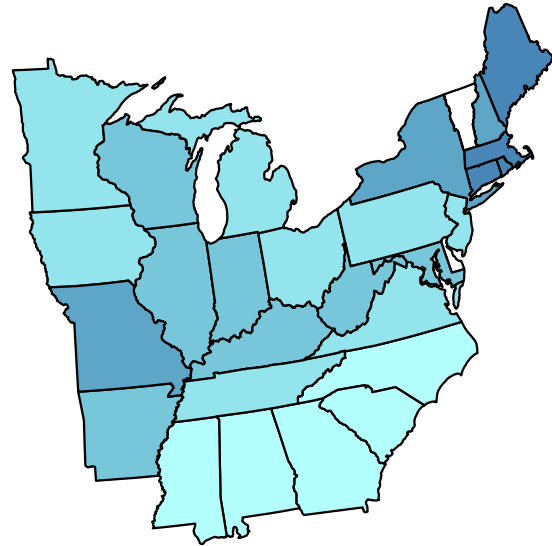
Which, if any, of the following do you see as potential benefits from planting trees on your wooded land?
Planting trees on my wooded land... None of the above

Percent of respondents who said “Yes” to this benefit

TTM_PLANT_NOBEN – Landowners



TTM_PLANT_NOBEN – Tree Farmers

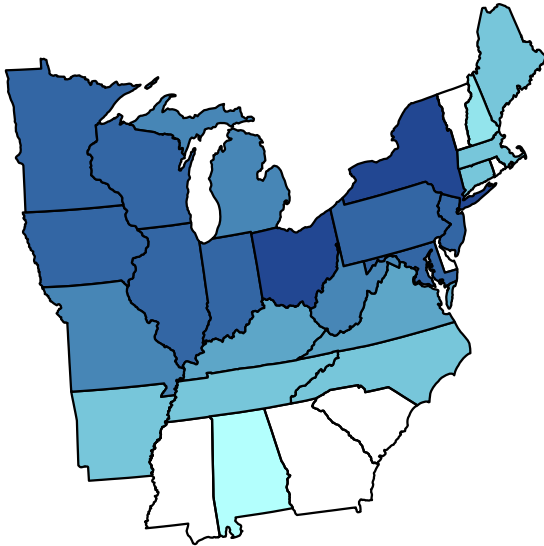


TTM_PLANT_DEER

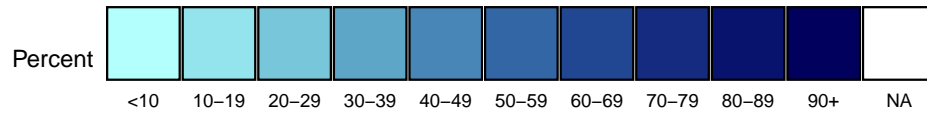
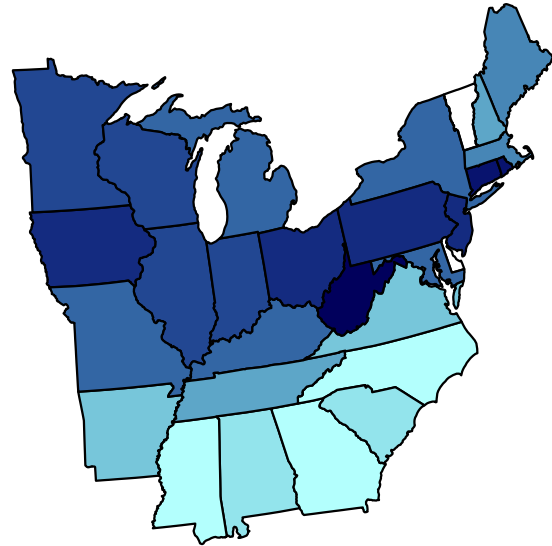
Which, if any, of the following do you see as potential challenges to planting trees on your wooded land?
Planted trees on my wooded land are at risk from deer browse

Percent of respondents who said “Yes” to this challenge

TTM_PLANT_DEER – Landowners



TTM_PLANT_DEER – Tree Farmers

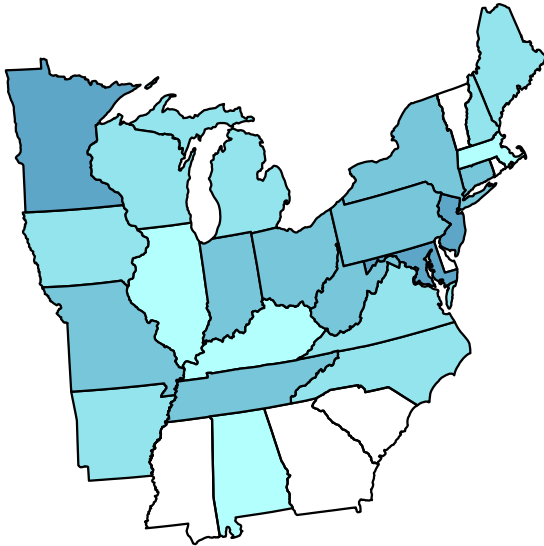


TTM_PLANT_INSECTS

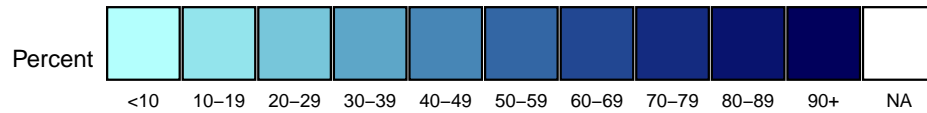
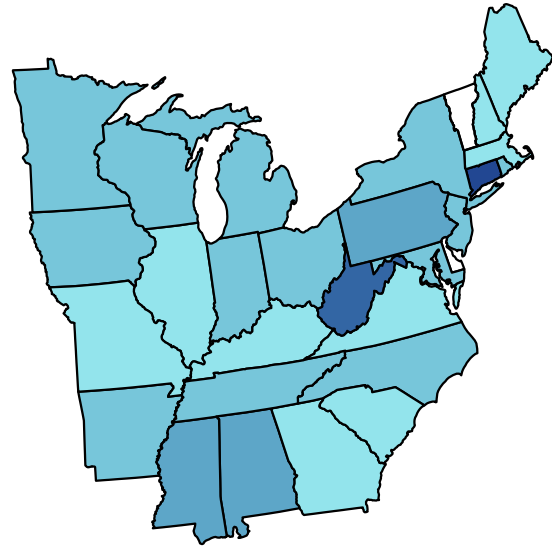
Which, if any, of the following do you see as potential challenges to planting trees on your wooded land?
Planted trees on my wooded land are at risk from insects and disease

Percent of respondents who said “Yes” to this challenge

TTM_PLANT_INSECTS – Landowners



TTM_PLANT_INSECTS – Tree Farmers

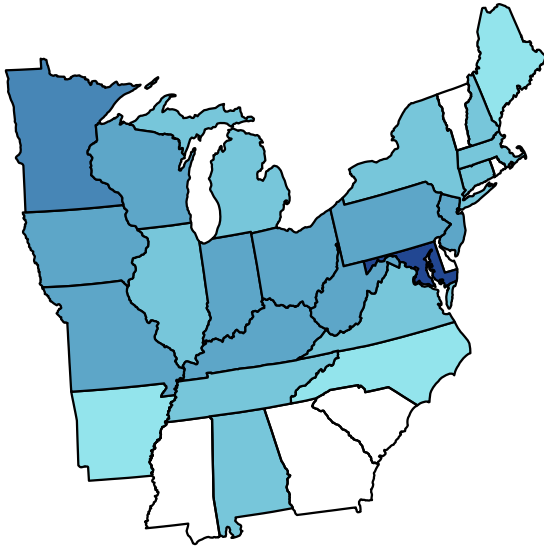


TTM_PLANT_TIME

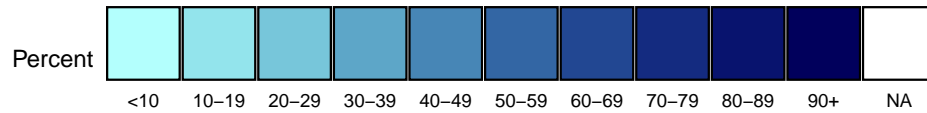
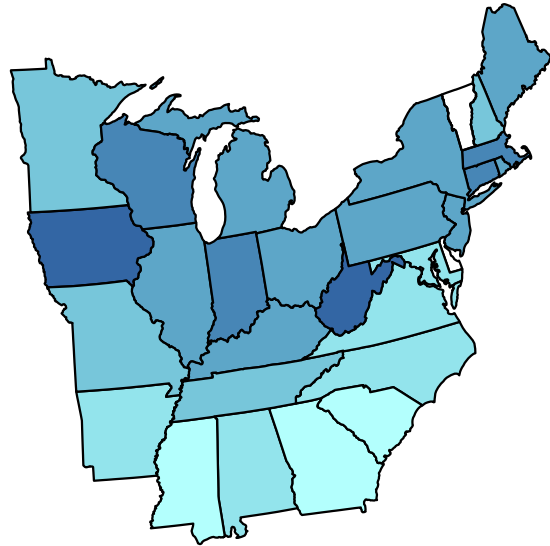
Which, if any, of the following do you see as potential challenges to planting trees on your wooded land?
Planting trees on my wooded land will likely require a lot of my time

Percent of respondents who said “Yes” to this challenge

TTM_PLANT_TIME – Landowners



TTM_PLANT_TIME – Tree Farmers

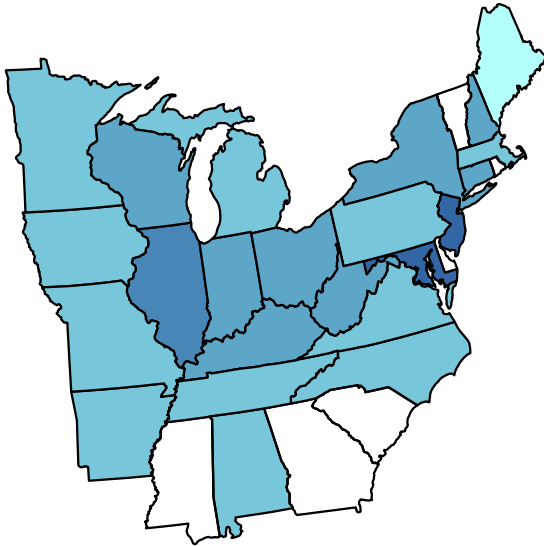


TTM_PLANT_EXPENSIVE

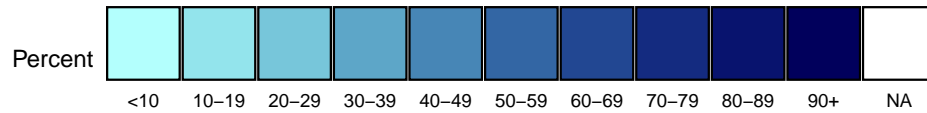
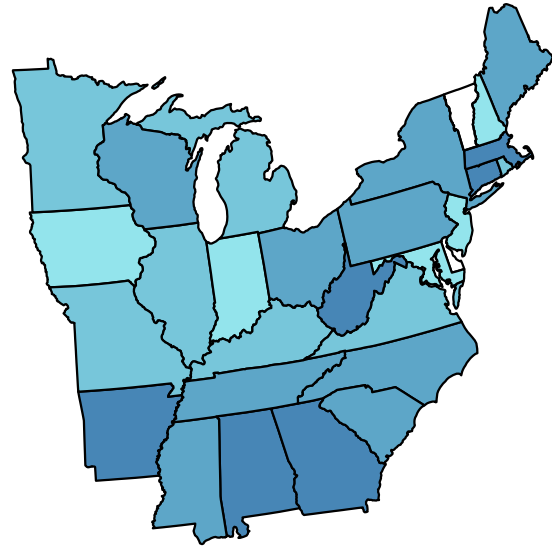
Which, if any, of the following do you see as potential challenges to planting trees on your wooded land?
Planting trees on my wooded land is expensive

Percent of respondents who said “Yes” to this challenge

TTM_PLANT_EXPENSIVE – Landowners



TTM_PLANT_EXPENSIVE – Tree Farmers

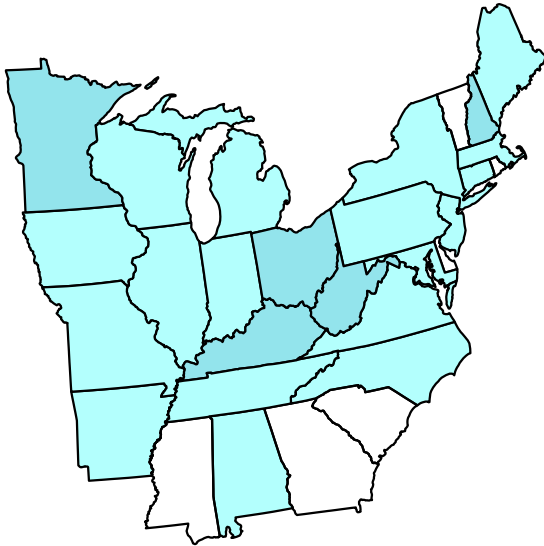


TTM_PLANT_SEEDLINGS

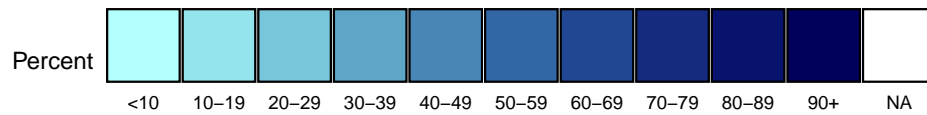
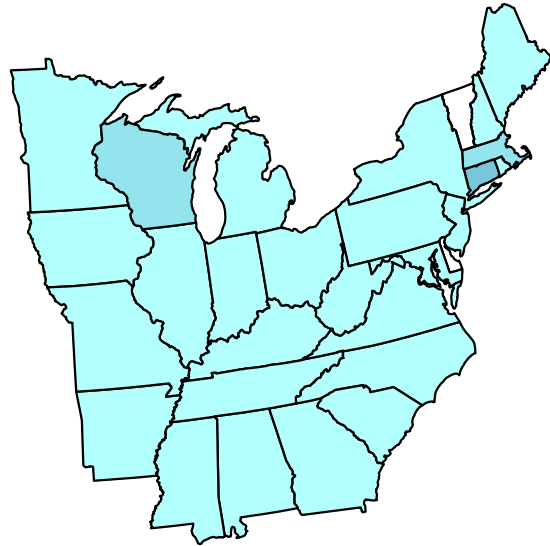
Which, if any, of the following do you see as potential challenges to planting trees on your wooded land? It is difficult to get seedlings

Percent of respondents who said “Yes” to this challenge

TTM_PLANT_SEEDLINGS – Landowners



TTM_PLANT_SEEDLINGS – Tree Farmers



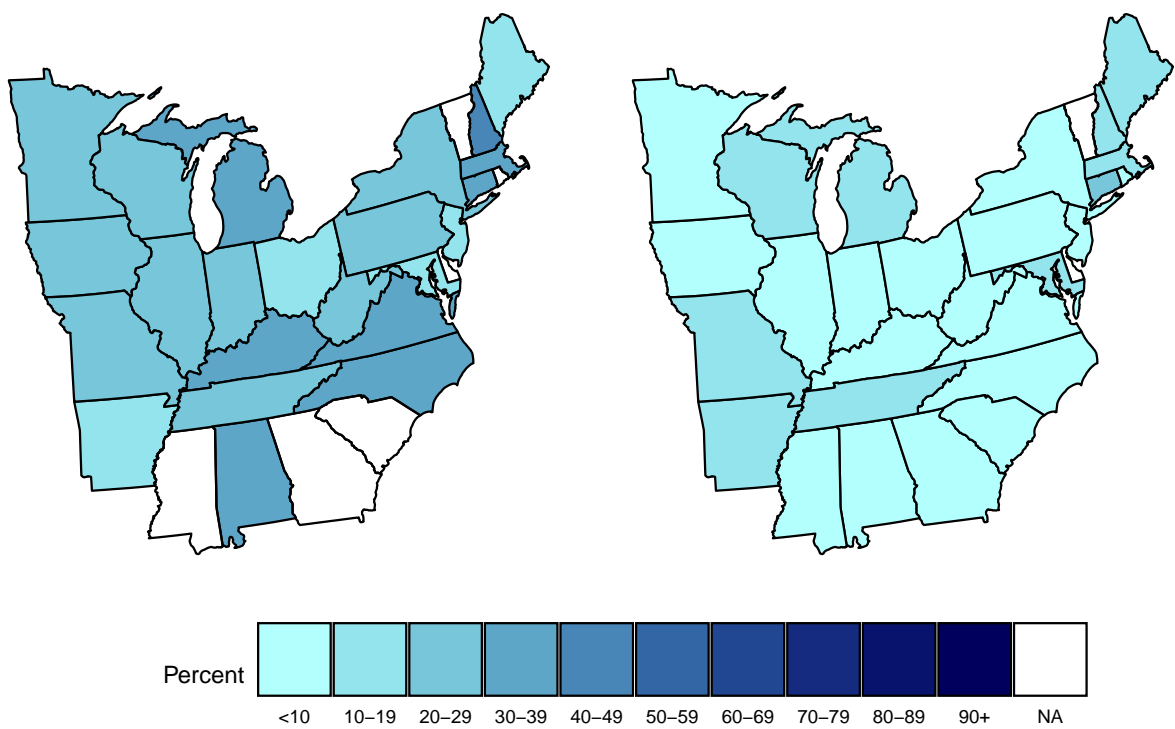
TTM_PLANT_INFO

Which, if any, of the following do you see as potential challenges to planting trees on your wooded land? I don't have enough information about planting trees on my wooded land

Percent of respondents who said “Yes” to this challenge

TTM_PLANT_INFO – Landowners

TTM_PLANT_INFO – Tree Farmers

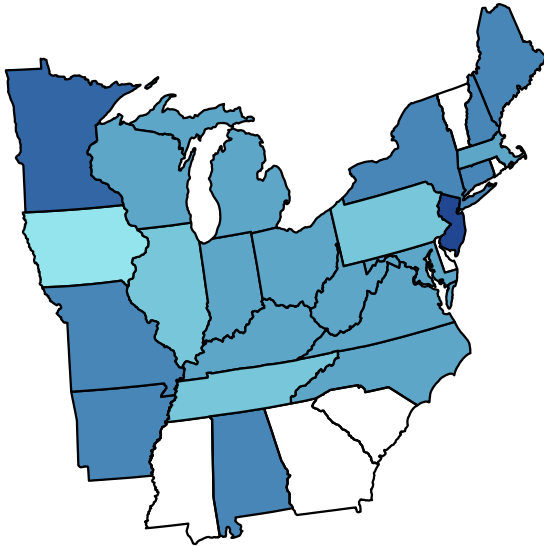


TTM_PLANT_NONEED

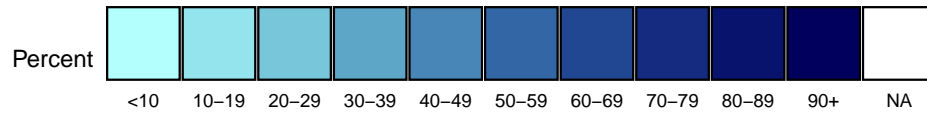
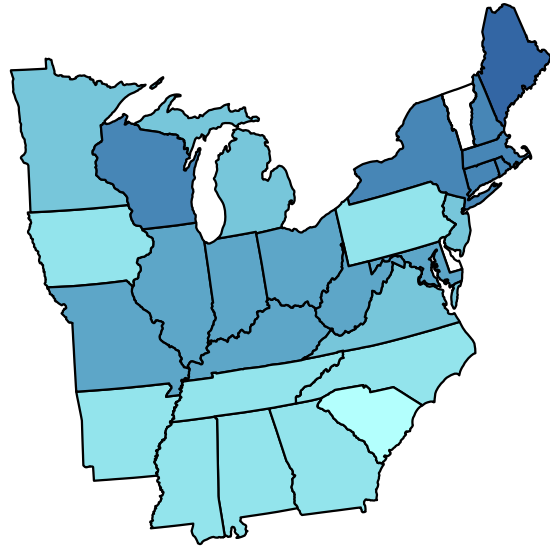
Which, if any, of the following do you see as potential challenges to planting trees on your wooded land? I don't need to plant trees on my wooded land

Percent of respondents who said "Yes" to this challenge

TTM_PLANT_NONEED – Landowners



TTM_PLANT_NONEED – Tree Farmers

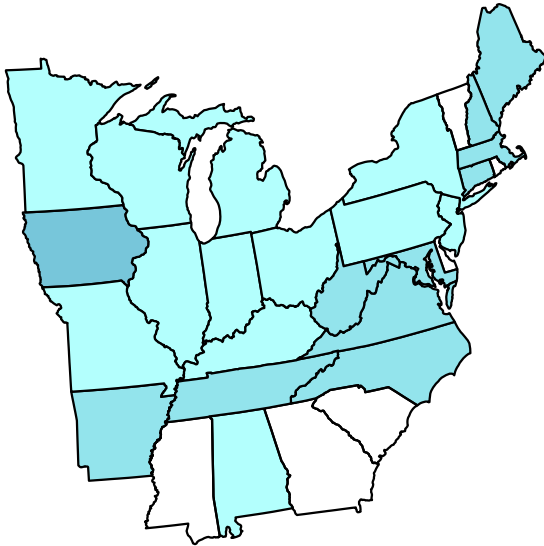


TTM_PLANT_NOCHALL

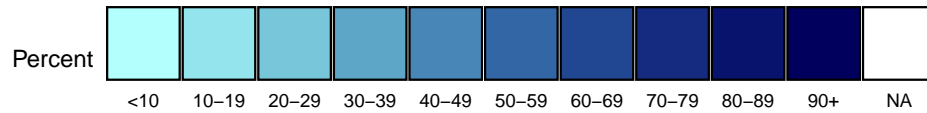
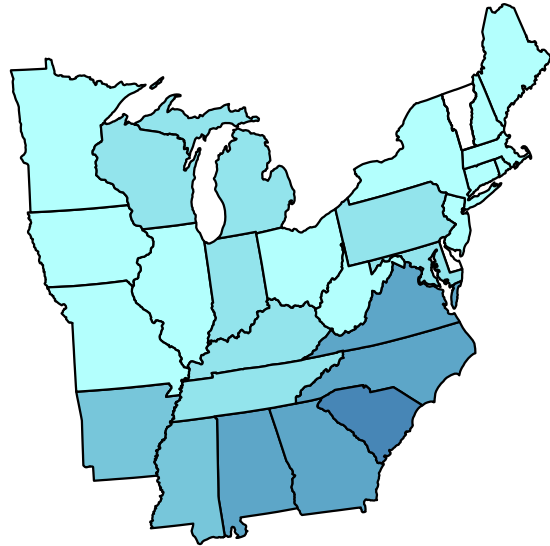
Which, if any, of the following do you see as potential challenges to planting trees on your wooded land?
None of the above

Percent of respondents who said “Yes” to this challenge

TTM_PLANT_NOCHALL – Landowners



TTM_PLANT_NOCHALL – Tree Farmers

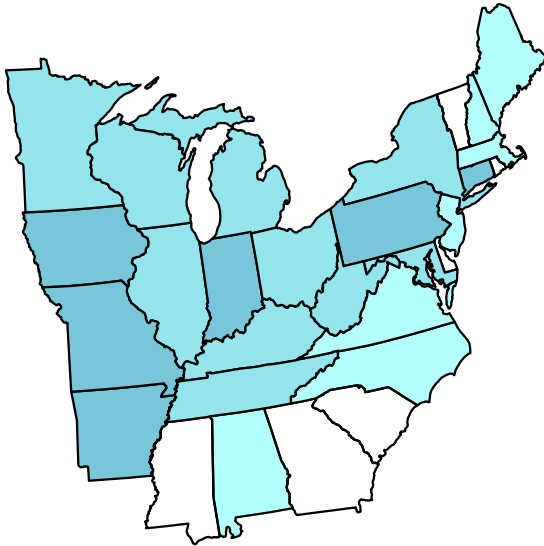


TTM_HERB_WILD

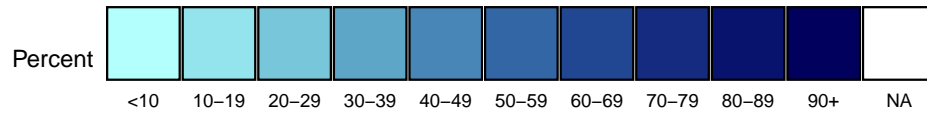
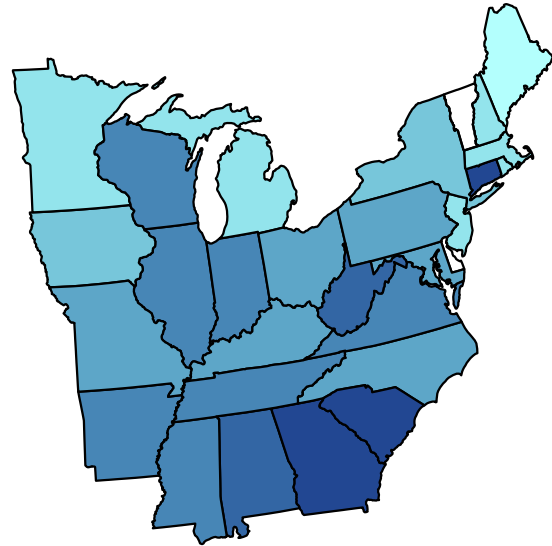
Which, if any, of the following do you see as potential benefits from using herbicides on your wooded land?
Using herbicides on my wooded land... Will likely improve wildlife habitat

Percent of respondents who said “Yes” to this benefit

TTM_HERB_WILD – Landowners



TTM_HERB_WILD – Tree Farmers

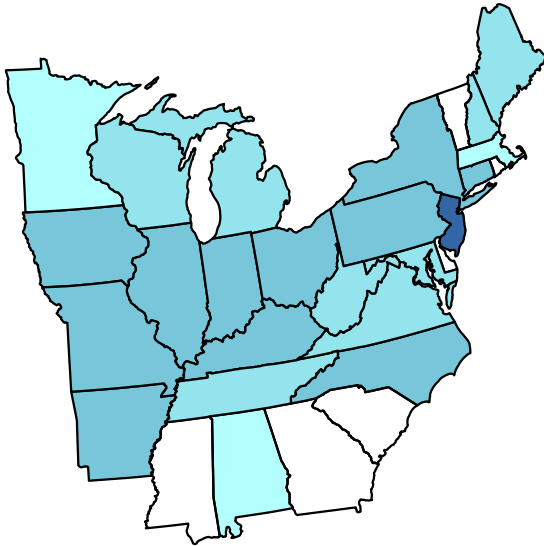


TTM_HERB_TIMBER

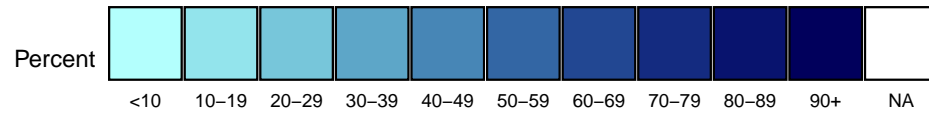
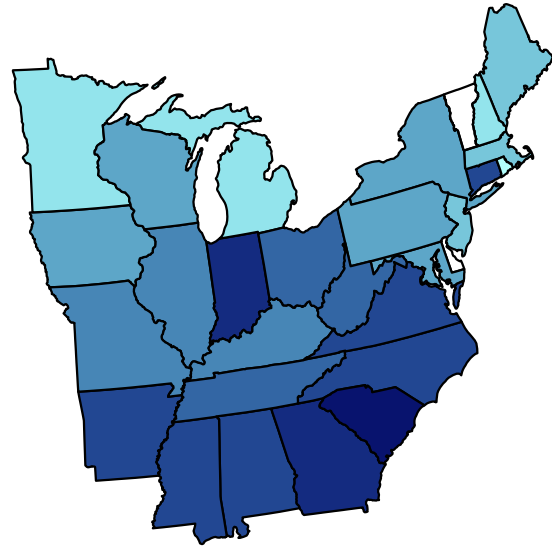
Which, if any, of the following do you see as potential benefits from using herbicides on your wooded land?
Using herbicides on my wooded land... Will likely increase future timber quality

Percent of respondents who said “Yes” to this benefit

TTM_HERB_TIMBER – Landowners



TTM_HERB_TIMBER – Tree Farmers

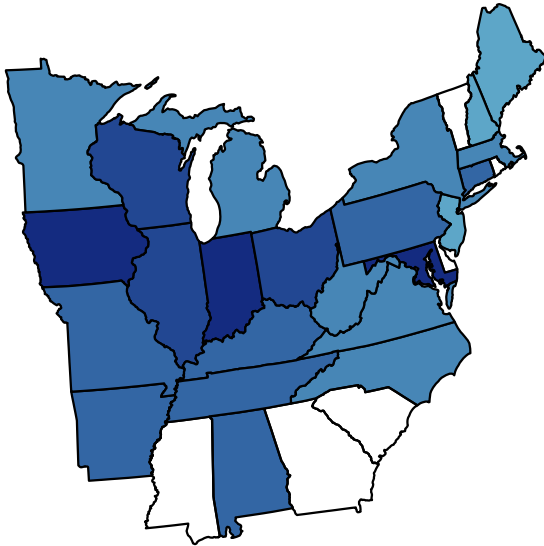


TTM_HERB_INVASIVES

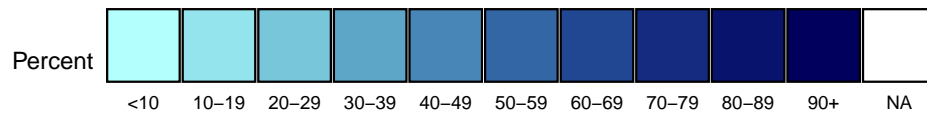
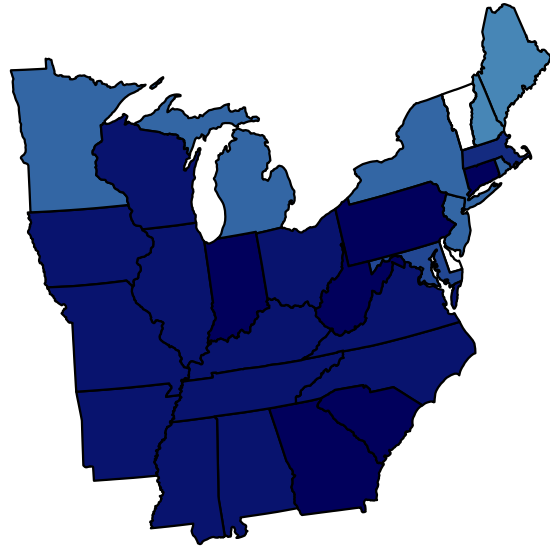
Which, if any, of the following do you see as potential benefits from using herbicides on your wooded land?
Using herbicides on my wooded land... Will likely reduce invasive plants

Percent of respondents who said “Yes” to this benefit

TTM_HERB_INVASIVES – Landowners



TTM_HERB_INVASIVES – Tree Farmers

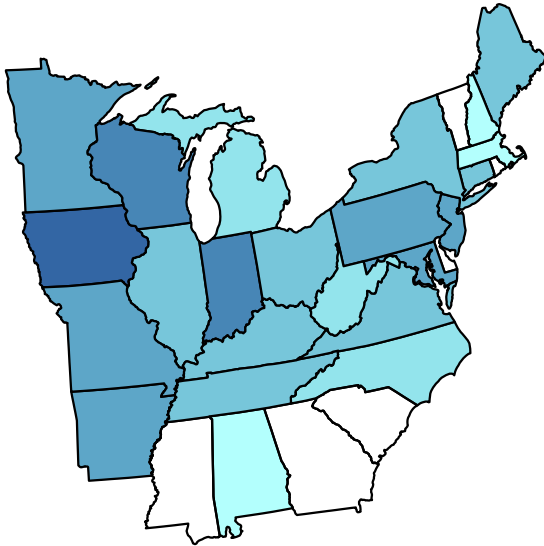


TTM_HERB_GROW

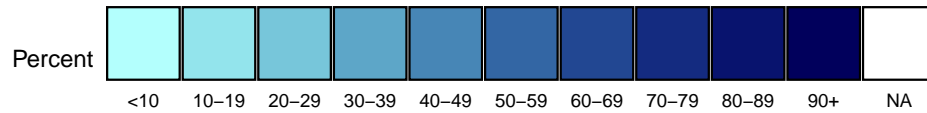
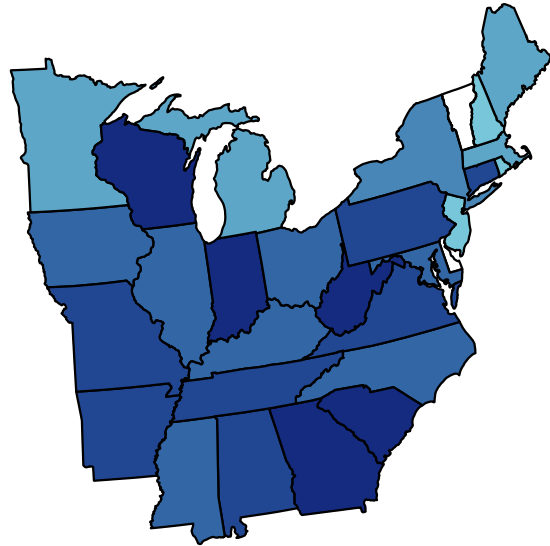
Which, if any, of the following do you see as potential benefits from using herbicides on your wooded land?
Using herbicides on my wooded land... Will likely encourage plants I want to grow

Percent of respondents who said “Yes” to this benefit

TTM_HERB_GROW – Landowners



TTM_HERB_GROW – Tree Farmers

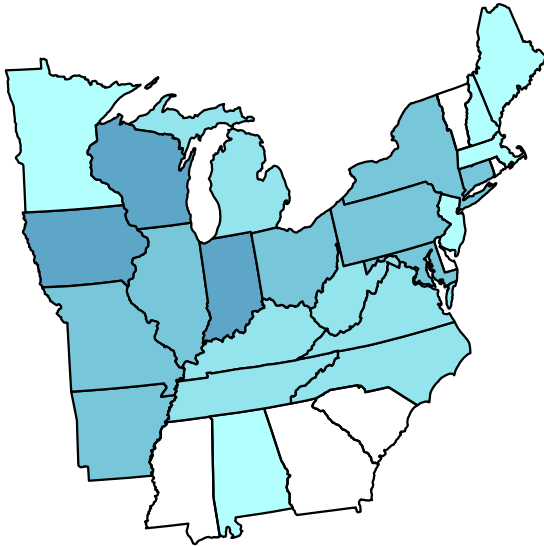


TTM_HERB_GOALS

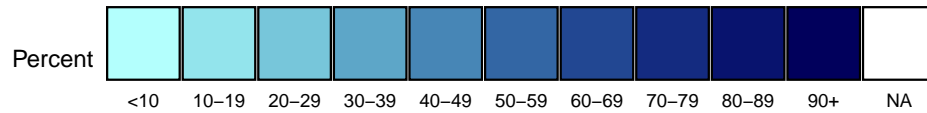
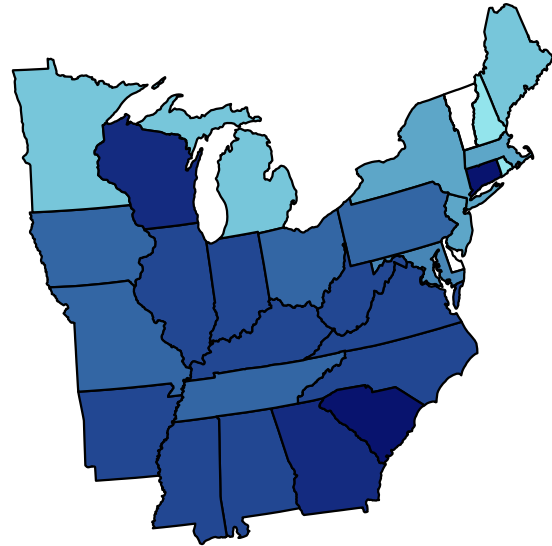
Which, if any, of the following do you see as potential benefits from using herbicides on your wooded land?
Using herbicides on my wooded land... Will likely further my goals for my wooded land

Percent of respondents who said “Yes” to this benefit

TTM_HERB_GOALS – Landowners



TTM_HERB_GOALS – Tree Farmers

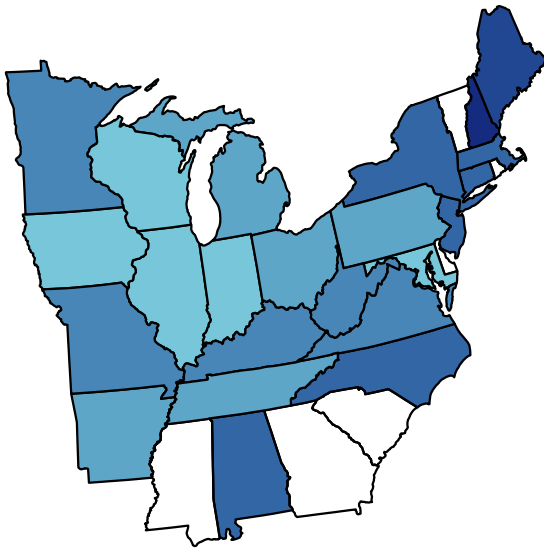


TTM_HERB_NOBEN

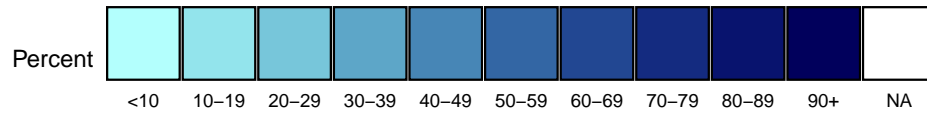
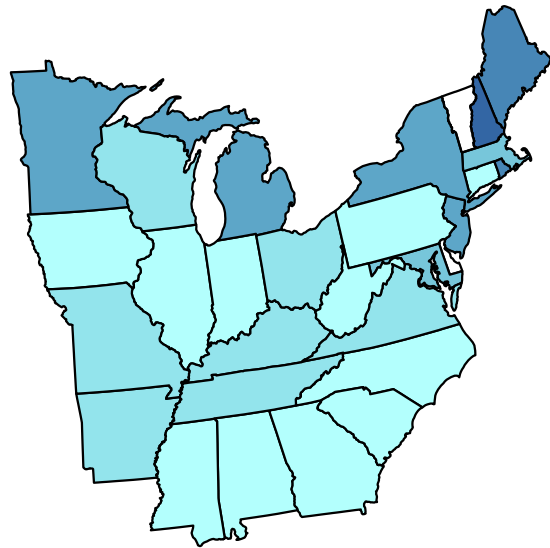
Which, if any, of the following do you see as potential benefits from using herbicides on your wooded land?
Using herbicides on my wooded land. . . None of the above

Percent of respondents who said “Yes” to this benefit

TTM_HERB_NOBEN – Landowners

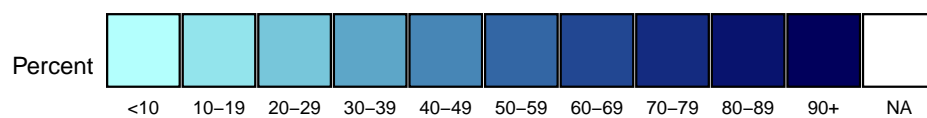
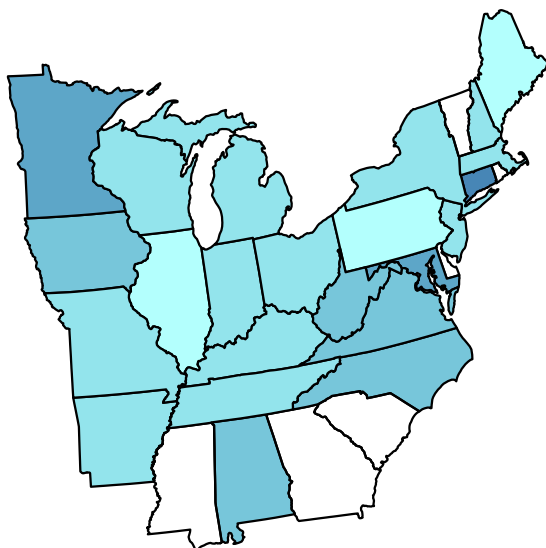


TTM_HERB_NOBEN – Tree Farmers



Which, if any, of the following do you see as potential challenges to using herbicides on your wooded land?
Herbicides will likely damage my wooded land

TTM_HERB_DAMAGE – Landowners



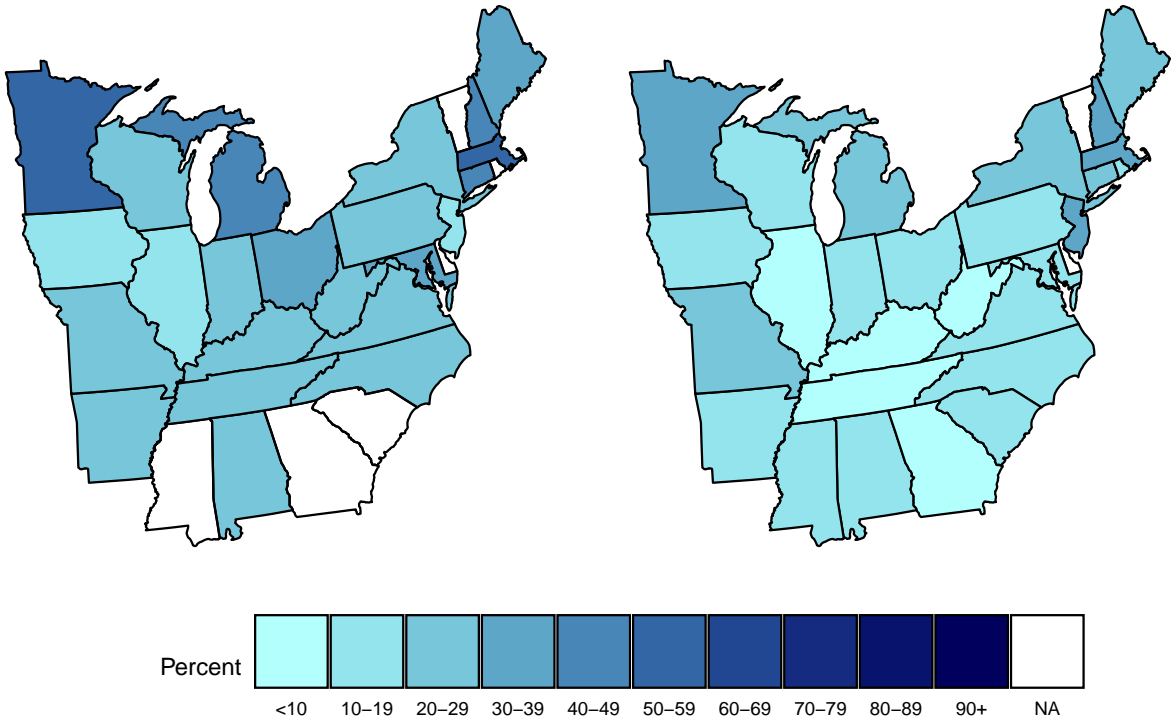
TTM_HERB_DAMAGE_WET

Which, if any, of the following do you see as potential challenges to using herbicides on your wooded land?
Using herbicides on my wooded land will likely damage wetlands or wet areas

Percent of respondents who said “Yes” to this challenge

TTM_HERB_DAMAGE_WET – Landowners

TTM_HERB_DAMAGE_WET – Tree Farmers

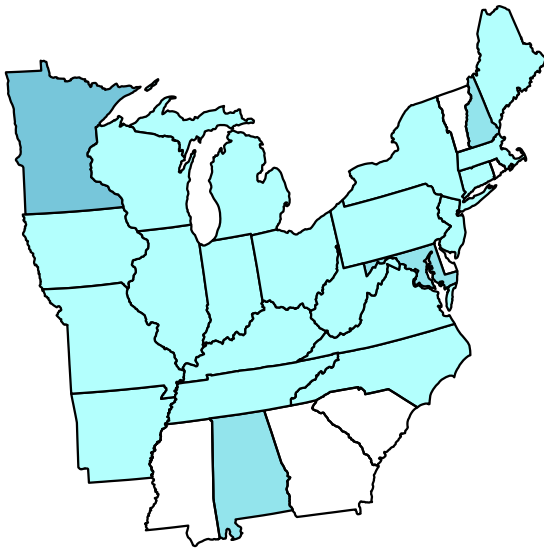


TTM_HERB_NEIGH

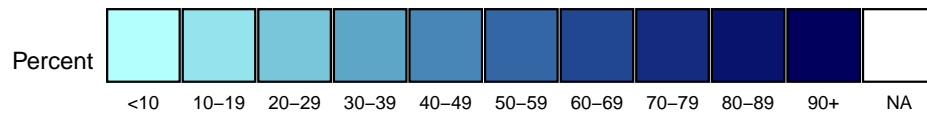
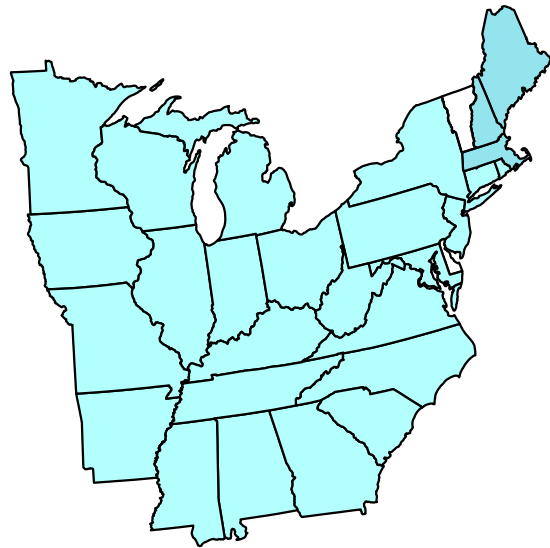
Which, if any, of the following do you see as potential challenges to using herbicides on your wooded land?
My neighbors would dislike it if I used herbicides on my wooded land

Percent of respondents who said “Yes” to this challenge

TTM_HERB_NEIGH – Landowners



TTM_HERB_NEIGH – Tree Farmers

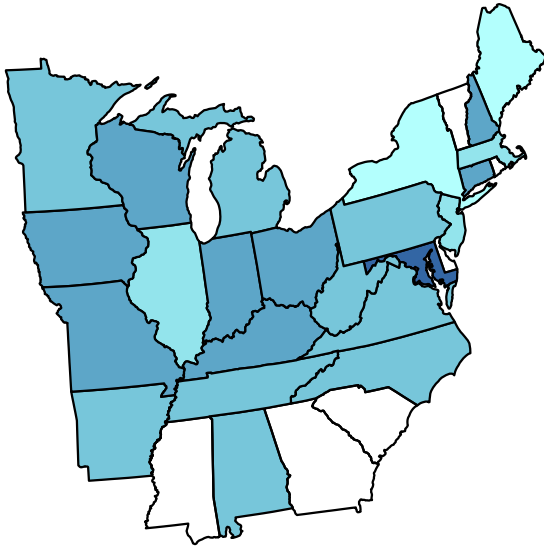


TTM_HERB_EXPENSIVE

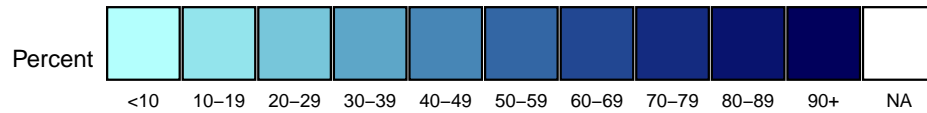
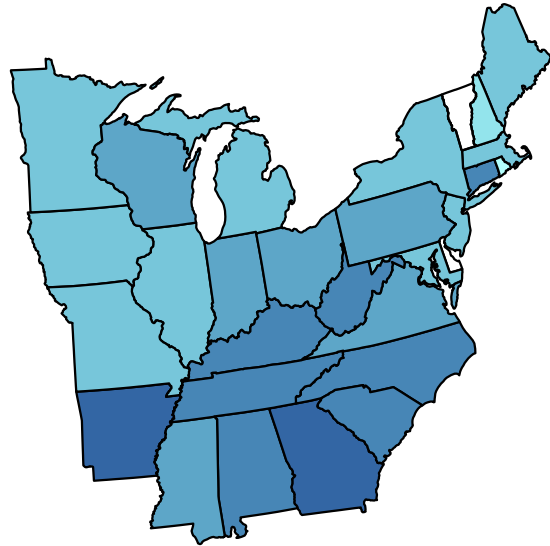
Which, if any, of the following do you see as potential challenges to using herbicides on your wooded land?
Using herbicides on my wooded land is expensive

Percent of respondents who said “Yes” to this challenge

TTM_HERB_EXPENSIVE – Landowners



TTM_HERB_EXPENSIVE – Tree Farmers

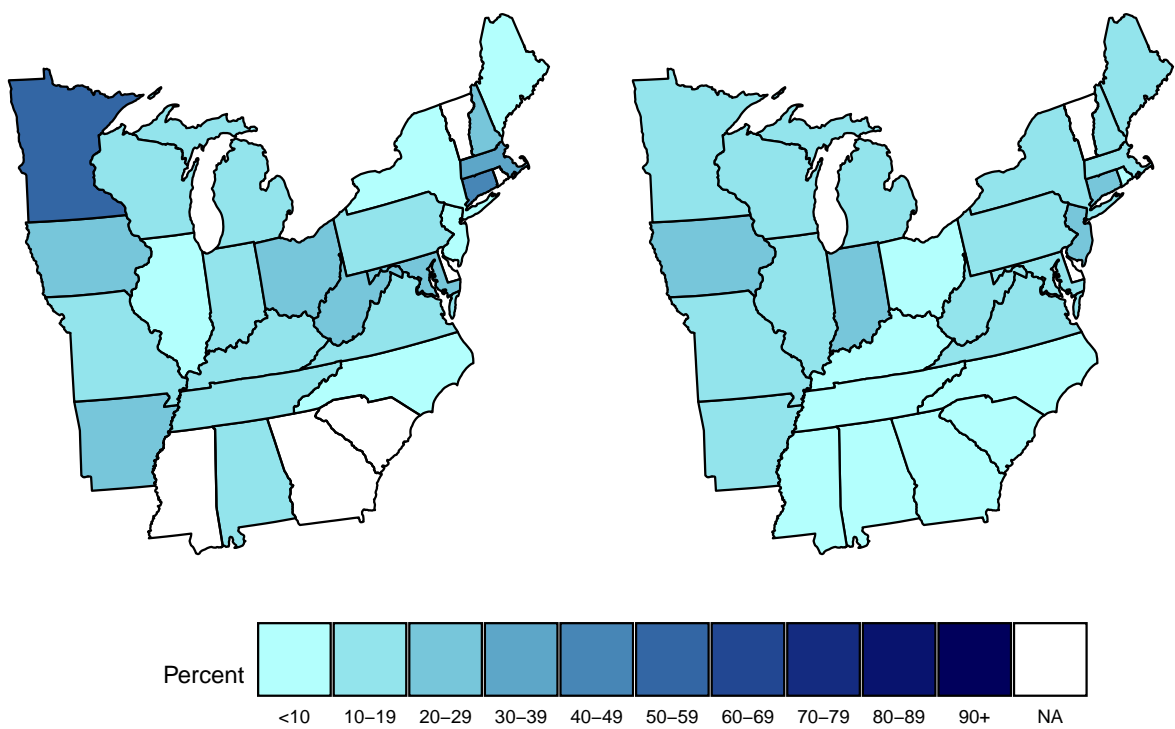


TTM_HERB_DAMAGE_PLANTS

Which, if any, of the following do you see as potential challenges to using herbicides on your wooded land?
Using herbicides on my wooded land will likely damage plants I want

Percent of respondents who said “Yes” to this challenge

TTM_HERB_DAMAGE_PLANTS – LandownersTTM_HERB_DAMAGE_PLANTS – Tree Farmers



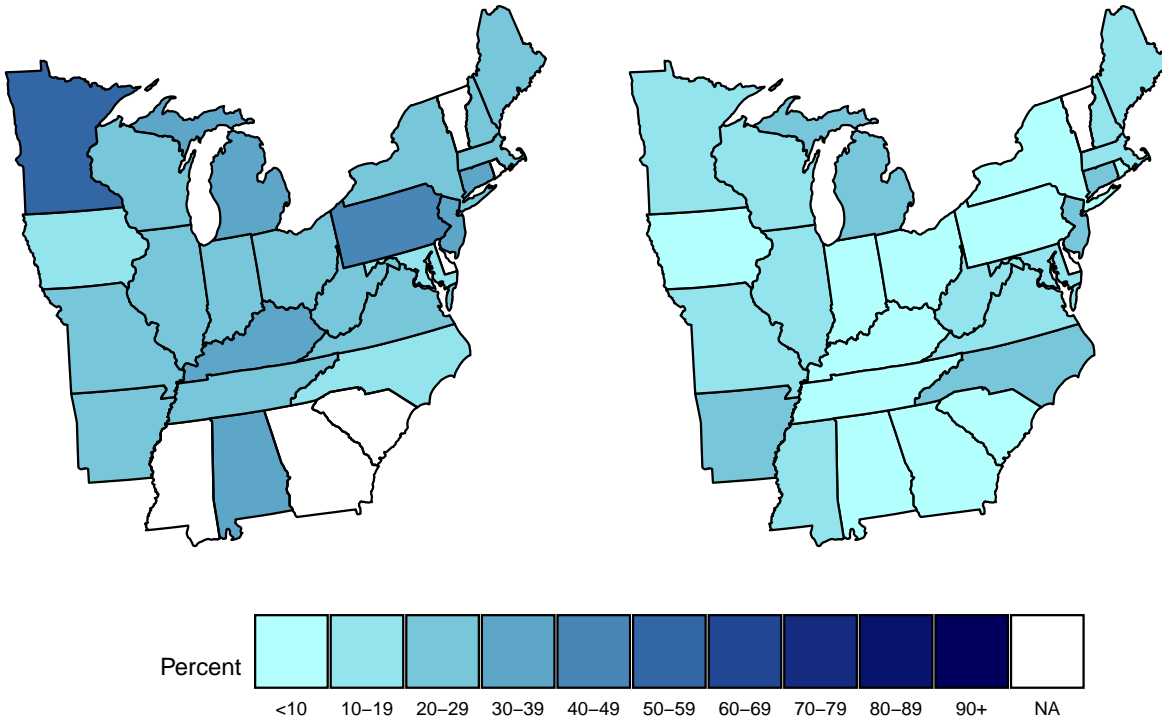
TTM_HERB_INFO

Which, if any, of the following do you see as potential challenges to using herbicides on your wooded land? I don't have enough information about herbicides on my wooded land

Percent of respondents who said “Yes” to this challenge

TTM_HERB_INFO – Landowners

TTM_HERB_INFO – Tree Farmers

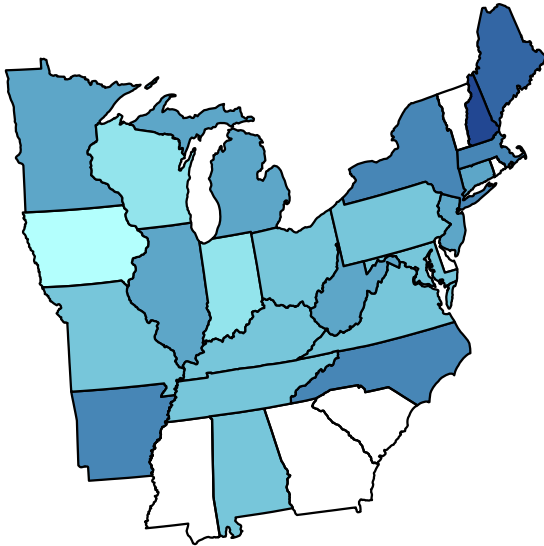


TTM_HERB_NONEED

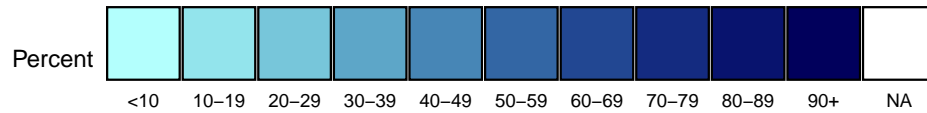
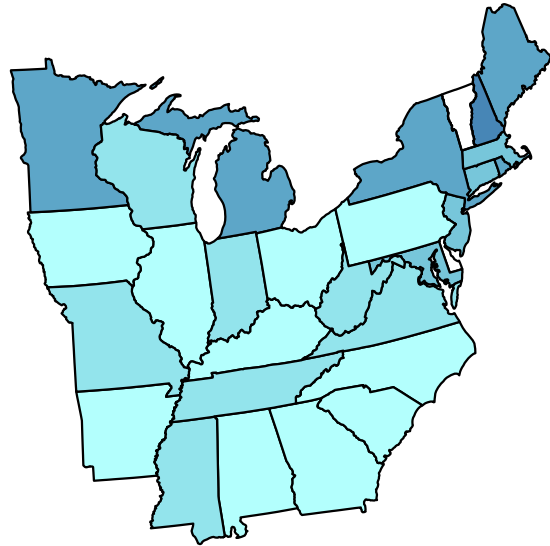
Which, if any, of the following do you see as potential challenges to using herbicides on your wooded land? I don't need to use herbicides on my wooded land

Percent of respondents who said “Yes” to this challenge

TTM_HERB_NONEED – Landowners



TTM_HERB_NONEED – Tree Farmers

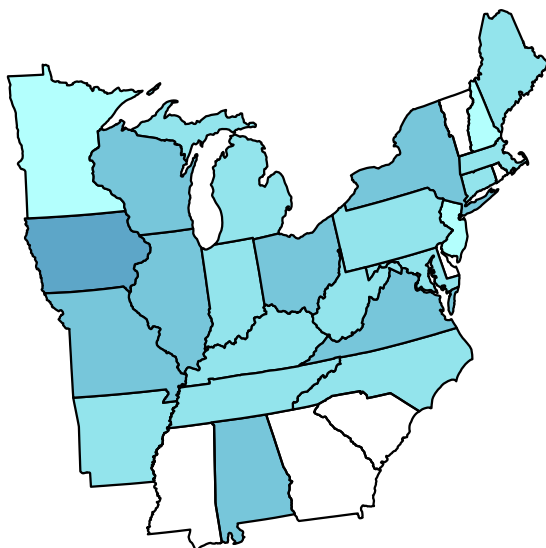


TTM_HERB_NOCHALL

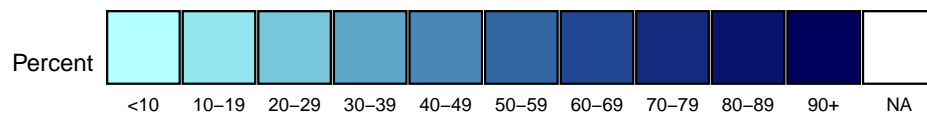
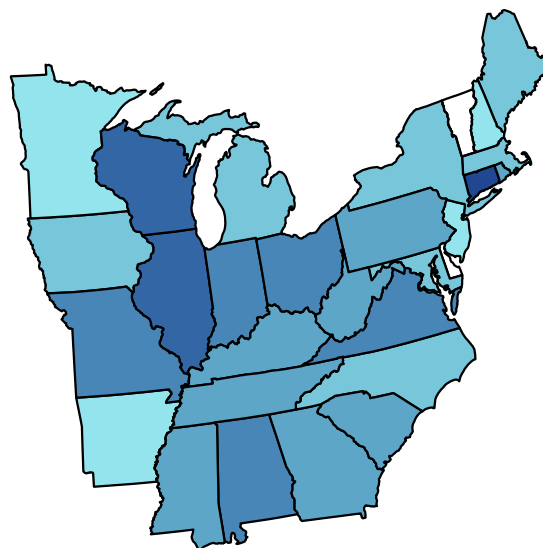
Which, if any, of the following do you see as potential challenges to using herbicides on your wooded land?
None of the above

Percent of respondents who said “Yes” to this challenge

TTM_HERB_NOCHALL – Landowners



TTM_HERB_NOCHALL – Tree Farmers

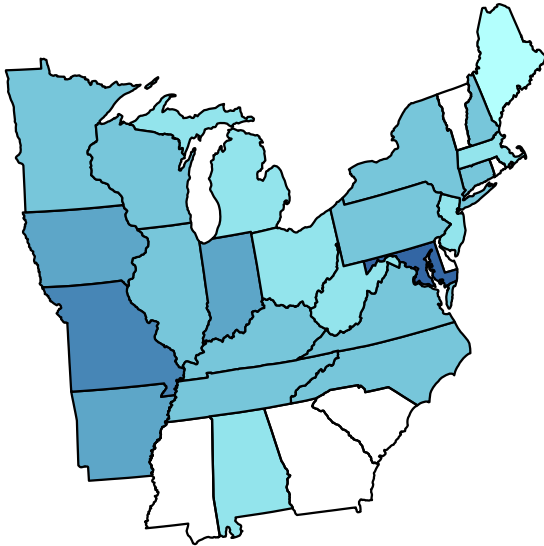


TTM_FIRE_WILD

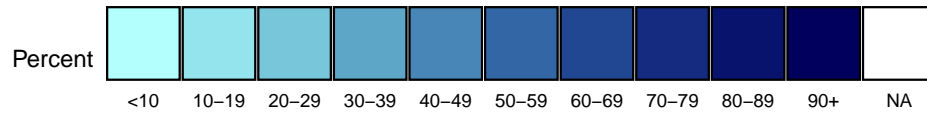
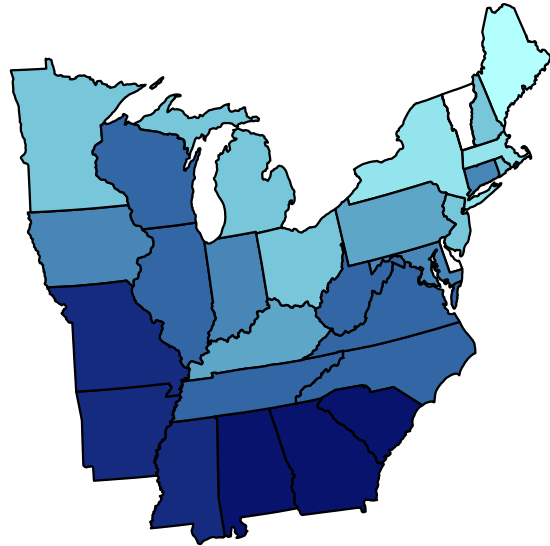
Which, if any, of the following do you see as potential benefits from using prescribed fire on your wooded land? Using prescribed fire on my wooded land... Will likely improve wildlife habitat

Percent of respondents who said “Yes” to this benefit

TTM_FIRE_WILD – Landowners



TTM_FIRE_WILD – Tree Farmers

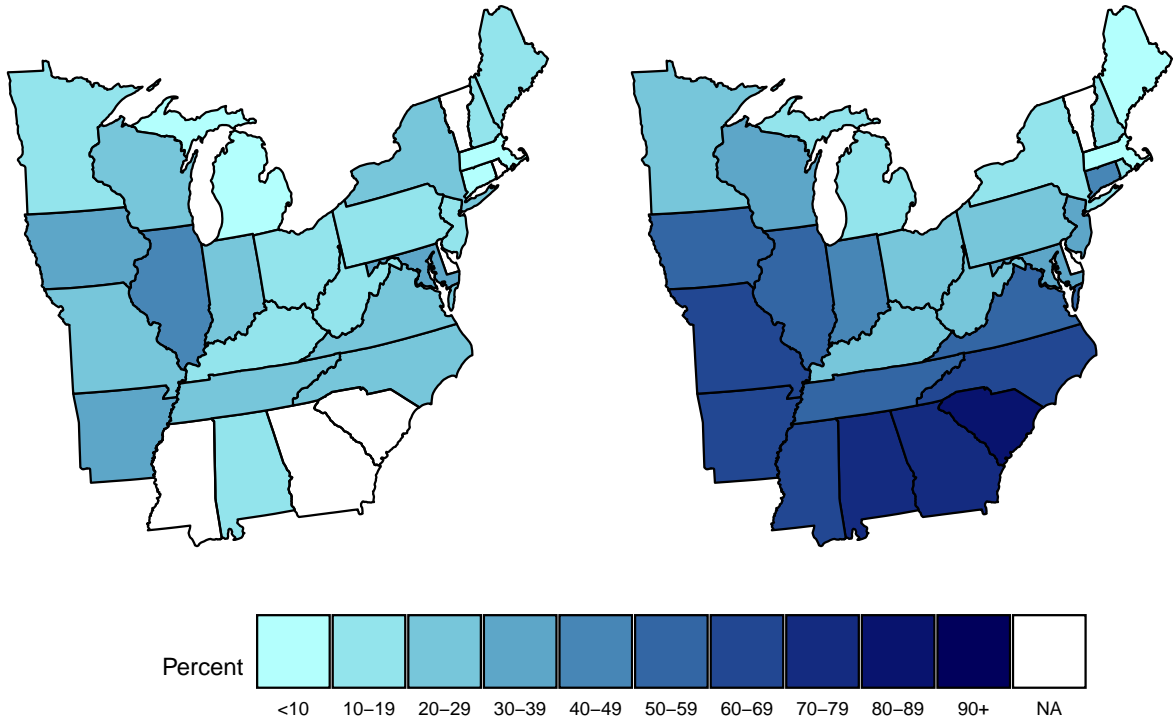


TTM_FIRE_PROMOTE_TREES

Which, if any, of the following do you see as potential benefits from using prescribed fire on your wooded land? Using prescribed fire on my wooded land... Will likely promote trees I want

Percent of respondents who said “Yes” to this benefit

TTM_FIRE_PROMOTE_TREES – Landowners TTM_FIRE_PROMOTE_TREES – Tree Farmer

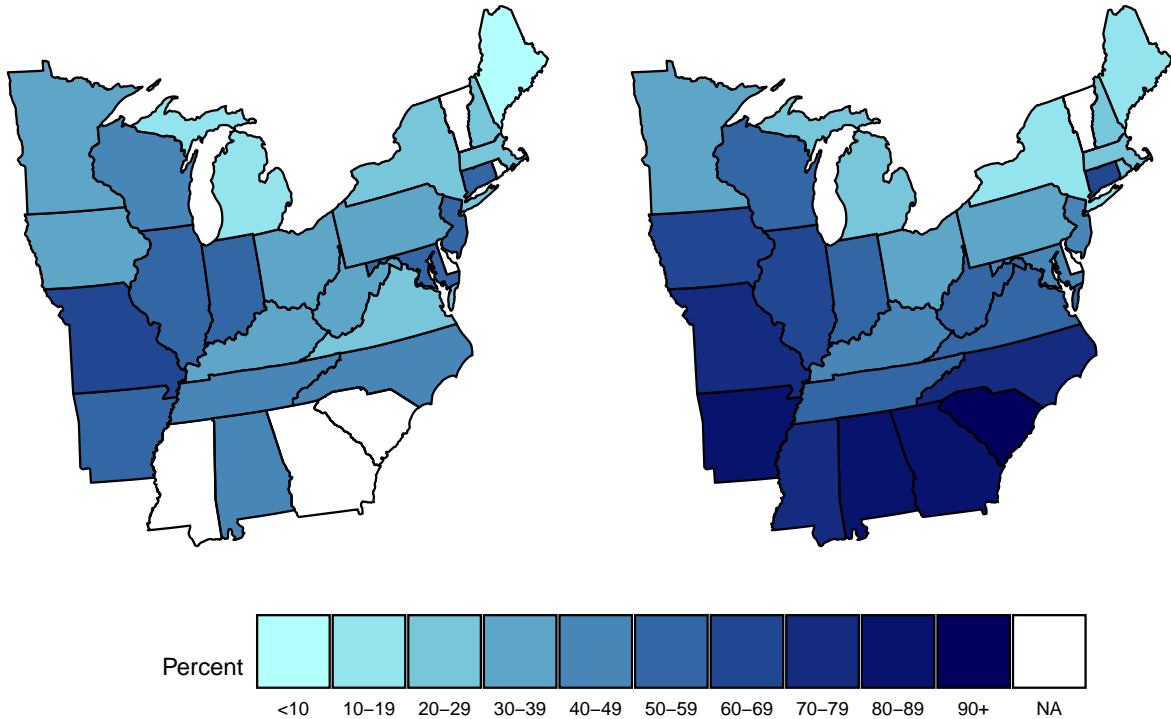


TTM_FIRE_REDUCE_PLANTS

Which, if any, of the following do you see as potential benefits from using prescribed fire on your wooded land? Using prescribed fire on my wooded land... Will likely reduce unwanted plants

Percent of respondents who said “Yes” to this benefit

TTM_FIRE_REDUCE_PLANTS – Landowners TTM_FIRE_REDUCE_PLANTS – Tree Farmer

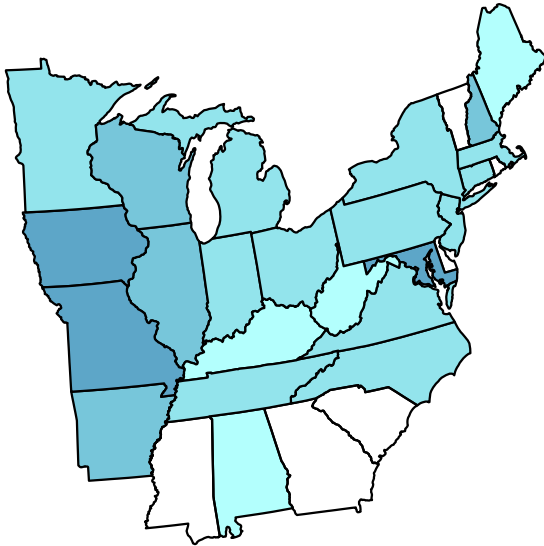


TTM_FIRE_GOALS

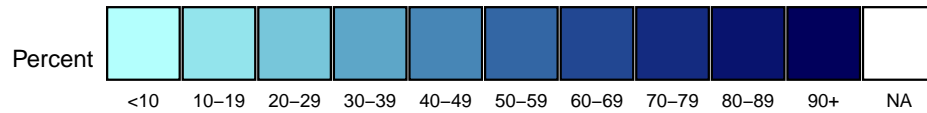
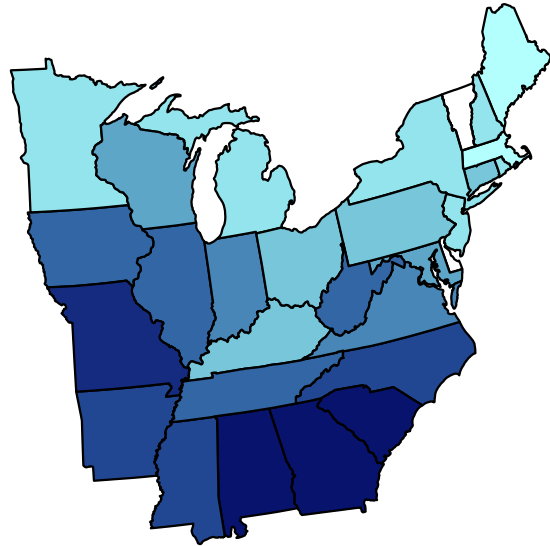
Which, if any, of the following do you see as potential benefits from using prescribed fire on your wooded land? Using prescribed fire on my wooded land... Will likely further my goals for my wooded land

Percent of respondents who said “Yes” to this benefit

TTM_FIRE_GOALS – Landowners



TTM_FIRE_GOALS – Tree Farmers

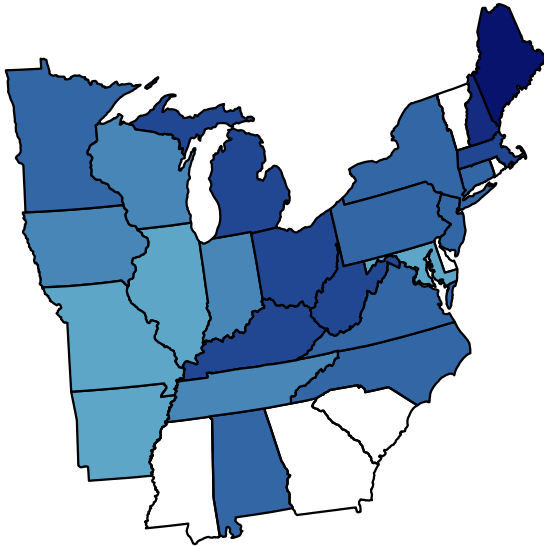


TTM_FIRE_NOBEN

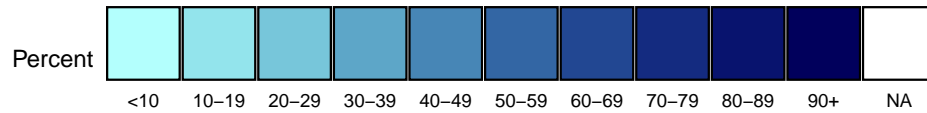
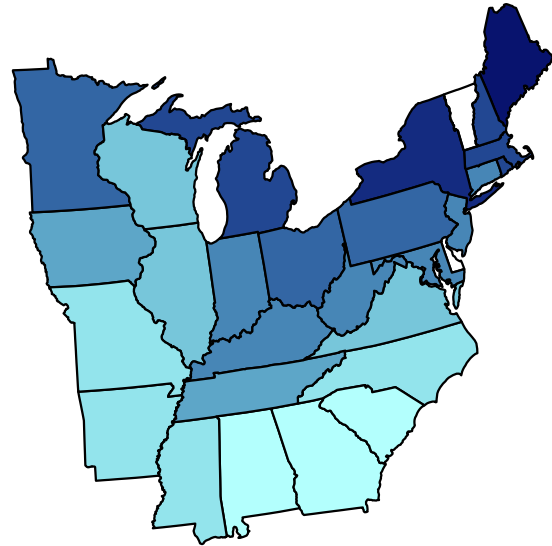
Which, if any, of the following do you see as potential benefits from using prescribed fire on your wooded land? Using prescribed fire on my wooded land... None of the above

Percent of respondents who said “Yes” to this benefit

TTM_FIRE_NOBEN – Landowners



TTM_FIRE_NOBEN – Tree Farmers

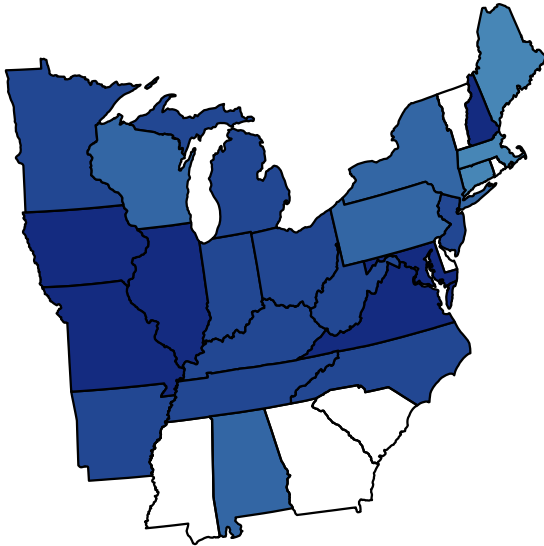


TTM_FIRE_RISK

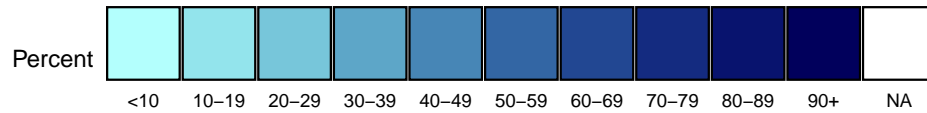
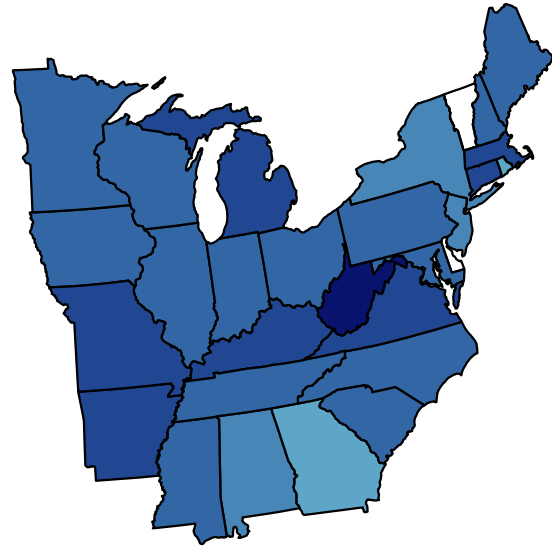
Which, if any, of the following do you see as potential challenges to using prescribed fire on your wooded land? Prescribed fire on my wooded land can be risky or dangerous

Percent of respondents who said “Yes” to this challenge

TTM_FIRE_RISK – Landowners



TTM_FIRE_RISK – Tree Farmers

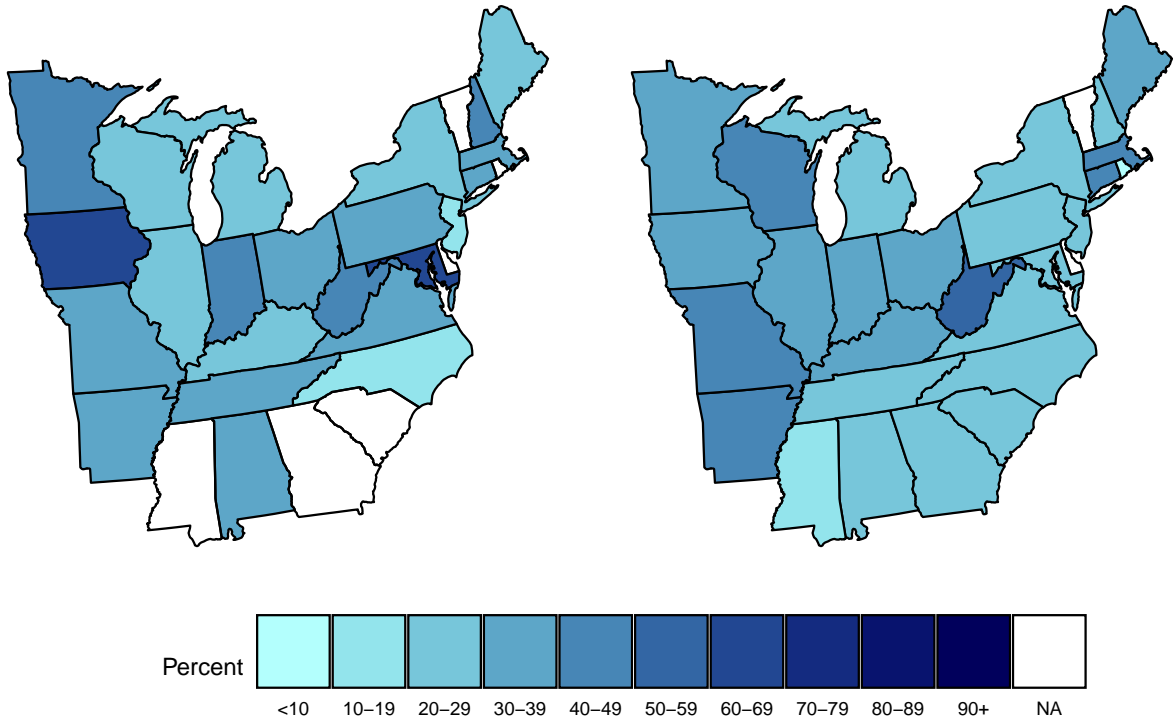


TTM_FIRE_DAMAGE_PLANTS

Which, if any, of the following do you see as potential challenges to using prescribed fire on your wooded land? Prescribed fire can damage plants I want

Percent of respondents who said “Yes” to this challenge

TTM_FIRE_DAMAGE_PLANTS – Landowners TTM_FIRE_DAMAGE_PLANTS – Tree Farmer

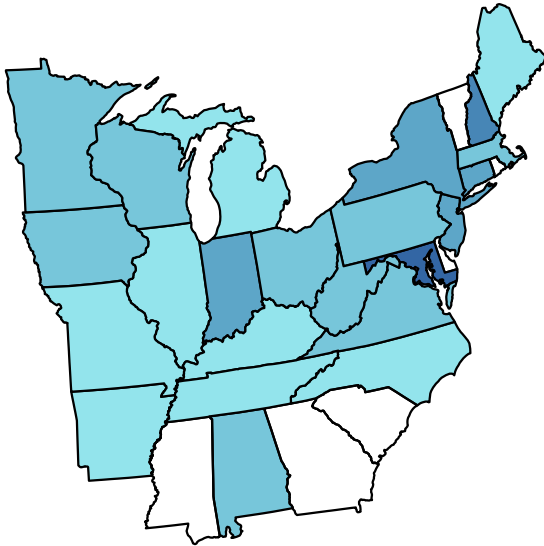


TTM_FIRE_NEIGH

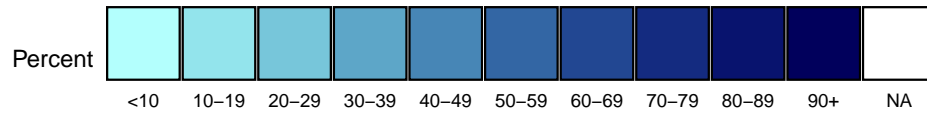
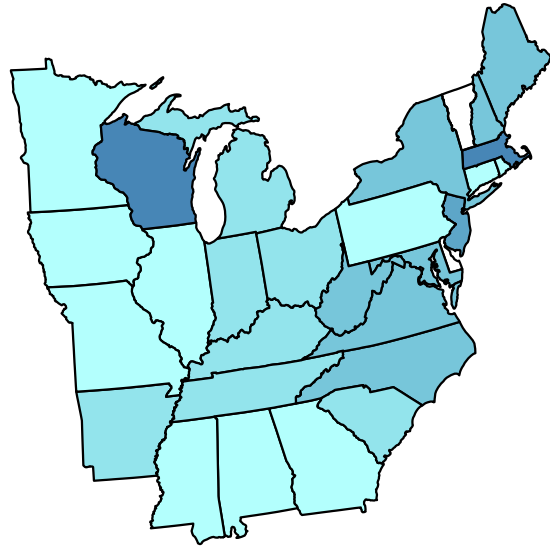
Which, if any, of the following do you see as potential challenges to using prescribed fire on your wooded land? My neighbors would dislike it if I used prescribed fire on my wooded land

Percent of respondents who said “Yes” to this challenge

TTM_FIRE_NEIGH – Landowners



TTM_FIRE_NEIGH – Tree Farmers

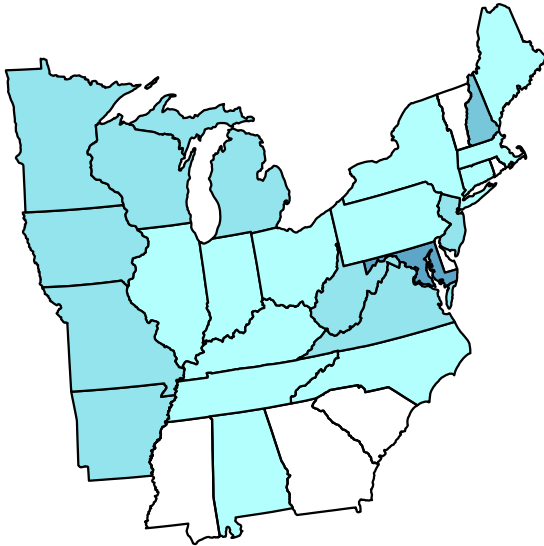


TTM_FIRE_EXPENSIVE

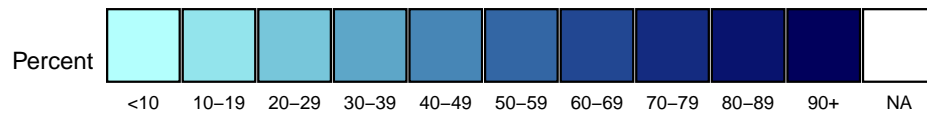
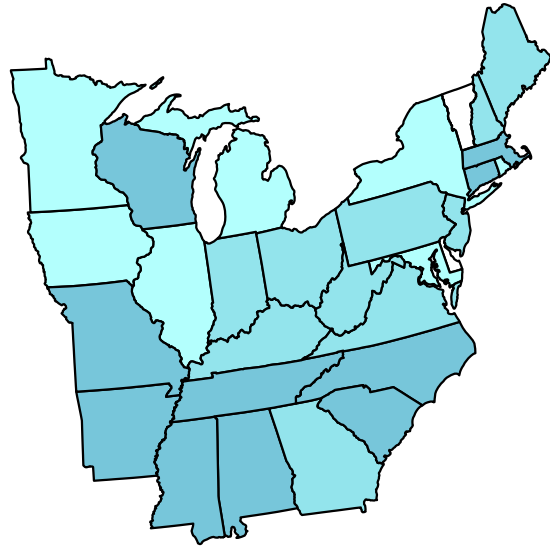
Which, if any, of the following do you see as potential challenges to using prescribed fire on your wooded land? Prescribed fire is expensive

Percent of respondents who said “Yes” to this challenge

TTM_FIRE_EXPENSIVE – Landowners



TTM_FIRE_EXPENSIVE – Tree Farmers

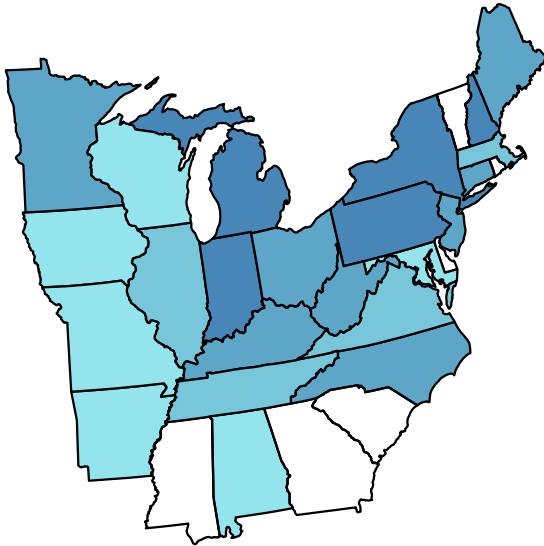


TTM_FIRE_INFO

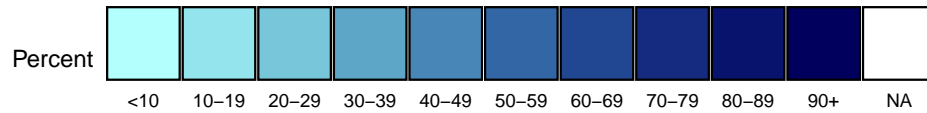
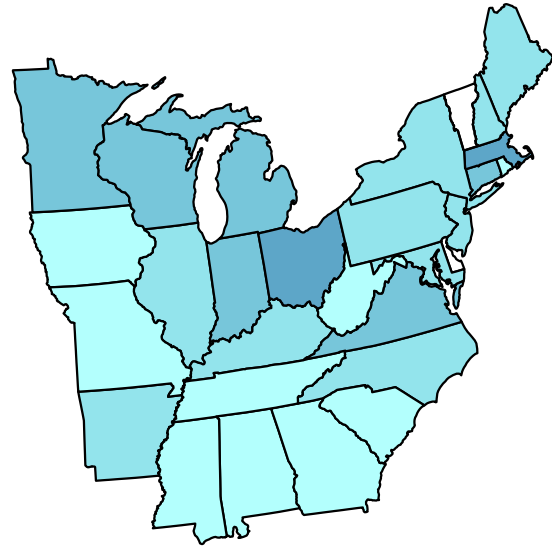
Which, if any, of the following do you see as potential challenges to using prescribed fire on your wooded land? I don't have enough information about prescribed fire

Percent of respondents who said "Yes" to this challenge

TTM_FIRE_INFO – Landowners



TTM_FIRE_INFO – Tree Farmers

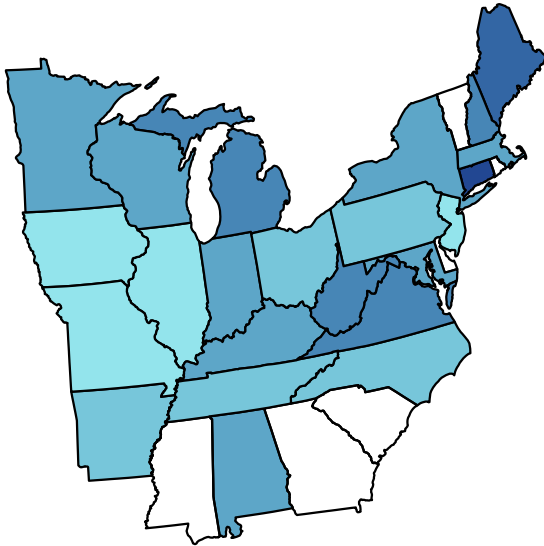


TTM_FIRE_NONEED

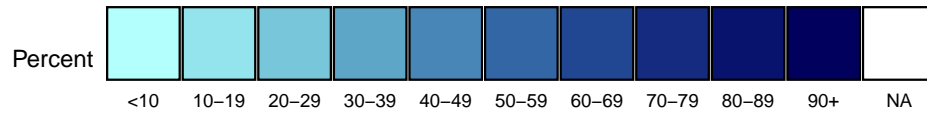
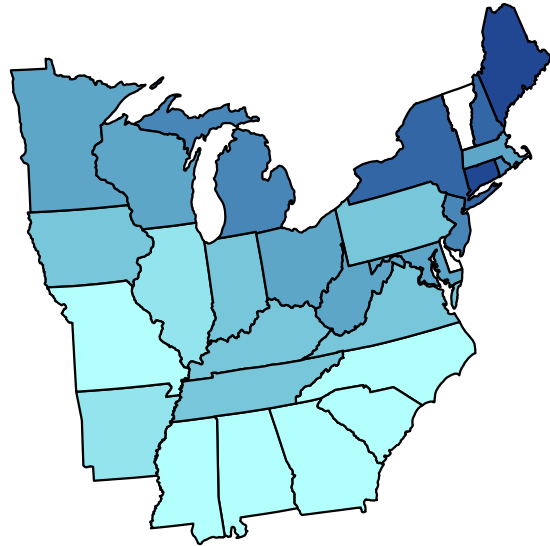
Which, if any, of the following do you see as potential challenges to using prescribed fire on your wooded land? I don't need to use prescribed fire on my wooded land

Percent of respondents who said "Yes" to this challenge

TTM_FIRE_NONEED – Landowners



TTM_FIRE_NONEED – Tree Farmers

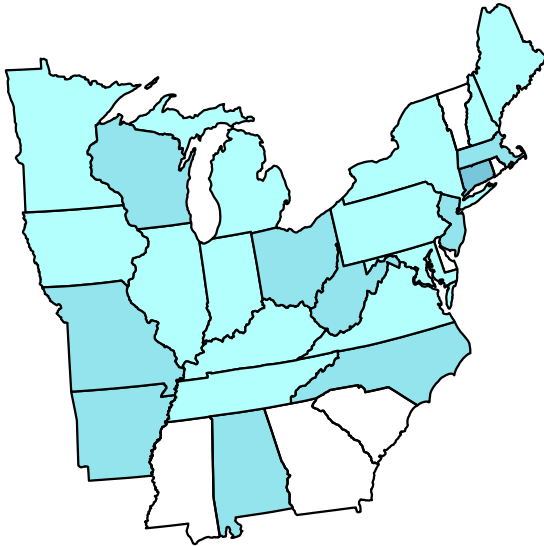


TTM_FIRE_NOCHALL

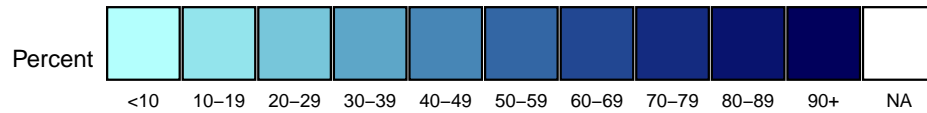
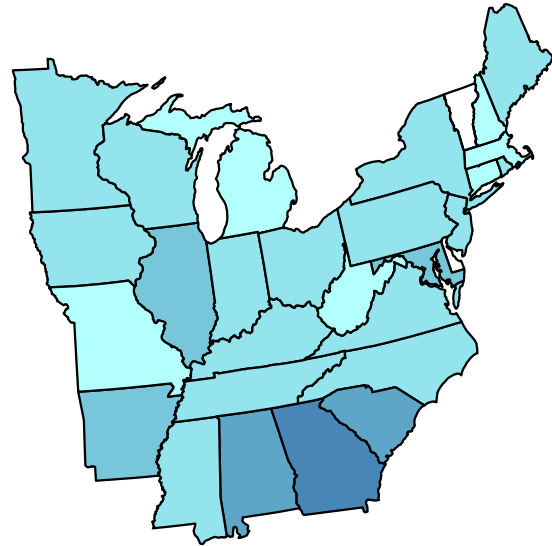
Which, if any, of the following do you see as potential challenges to using prescribed fire on your wooded land? None of the above

Percent of respondents who said “Yes” to this challenge

TTM_FIRE_NOCHALL – Landowners



TTM_FIRE_NOCHALL – Tree Farmers

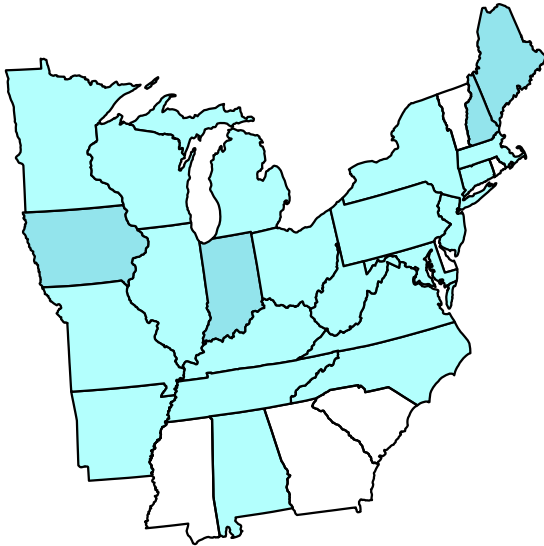


MEMBER_AFF

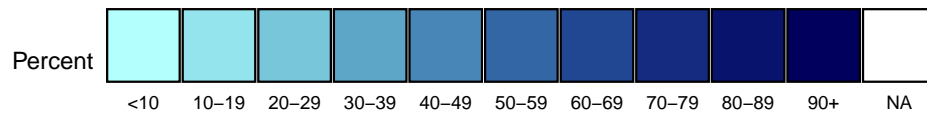
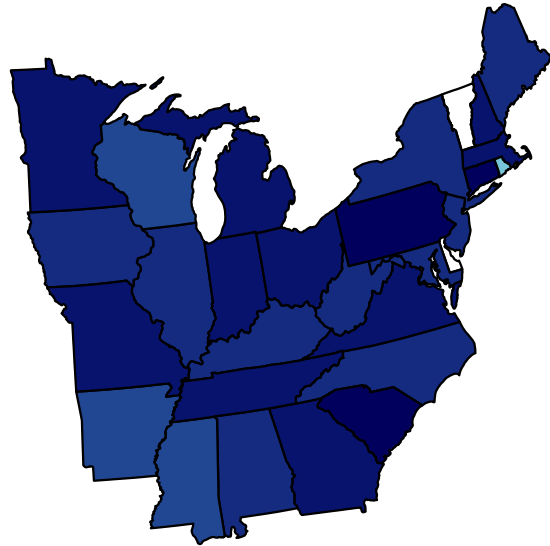
Are you a member of any of the following wildlife, forestry, or conservation organizations? American Tree Farm

Percent of respondents who said “Yes”

MEMBER_AFF – Landowners



MEMBER_AFF – Tree Farmers

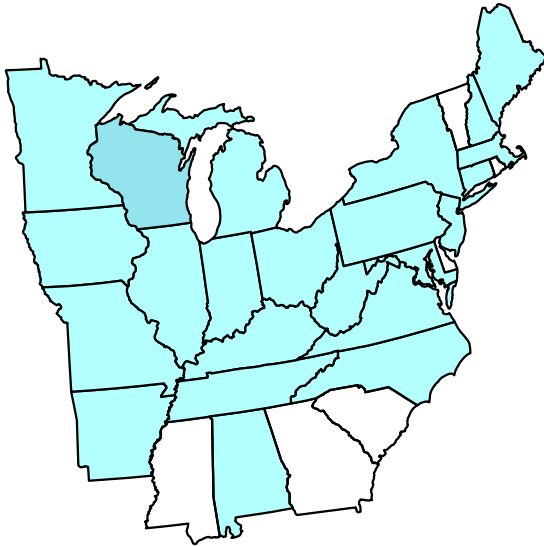


MEMBER_NWOA

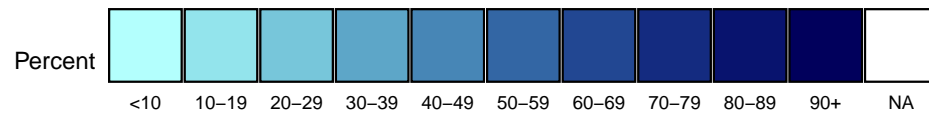
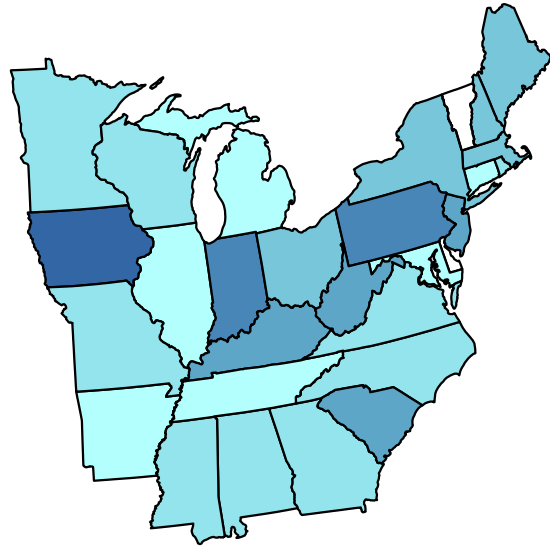
Are you a member of any of the following wildlife, forestry, or conservation organizations? National Woodland Owners Association

Percent of respondents who said “Yes”

MEMBER_NWOA – Landowners



MEMBER_NWOA – Tree Farmers

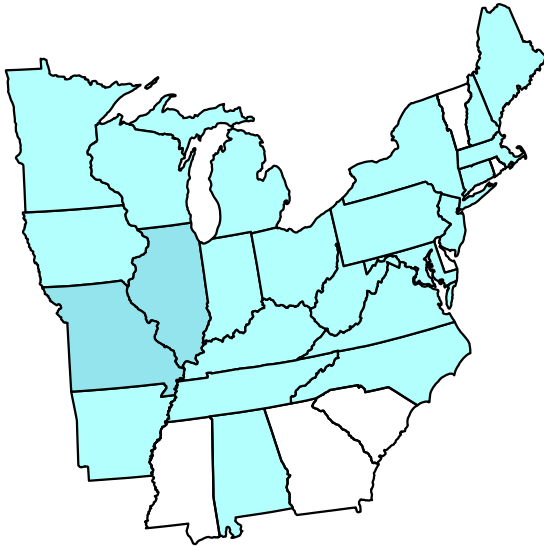


MEMBER_NWTF

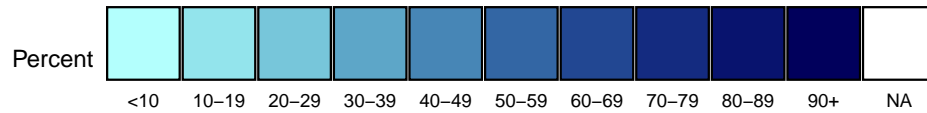
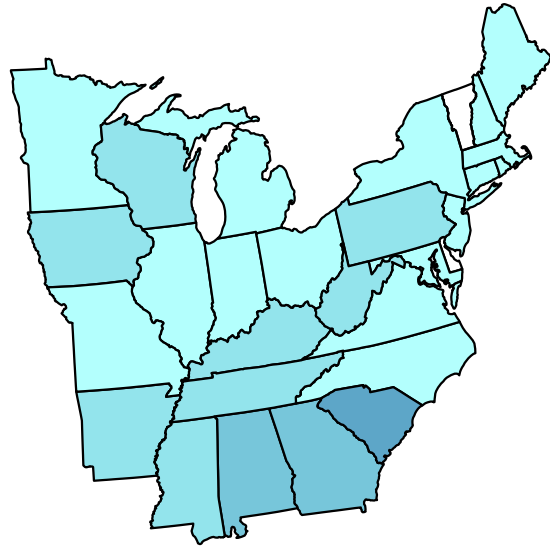
Are you a member of any of the following wildlife, forestry, or conservation organizations? National Wild Turkey Federation

Percent of respondents who said “Yes”

MEMBER_NWTF – Landowners



MEMBER_NWTF – Tree Farmers

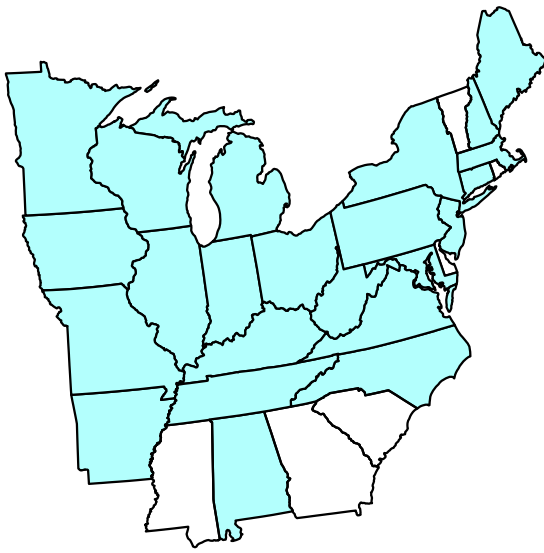


MEMBER_AMFORESTS

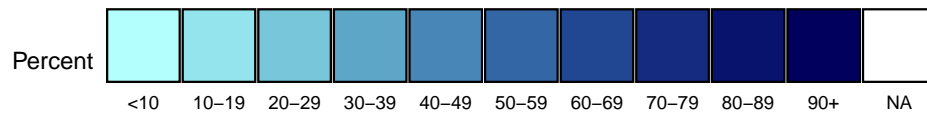
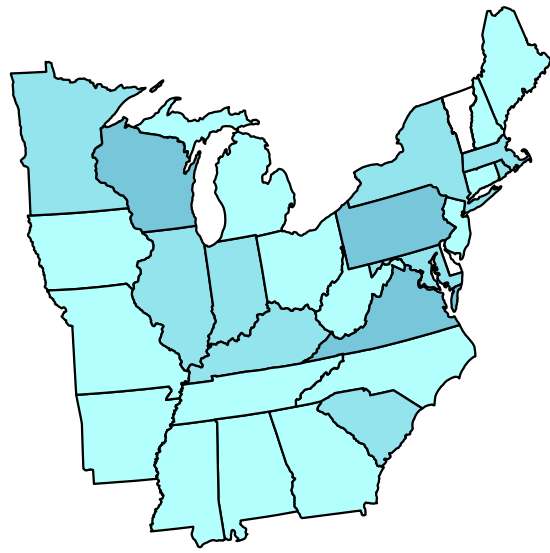
Are you a member of any of the following wildlife, forestry, or conservation organizations? American Forests

Percent of respondents who said “Yes”

MEMBER_AMFORESTS – Landowners



MEMBER_AMFORESTS – Tree Farmers



MEMBER_FL A

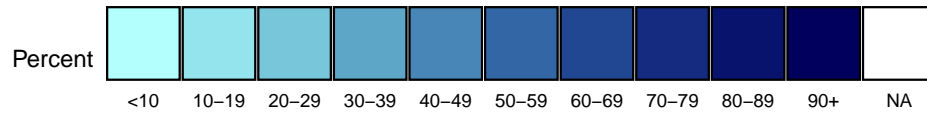
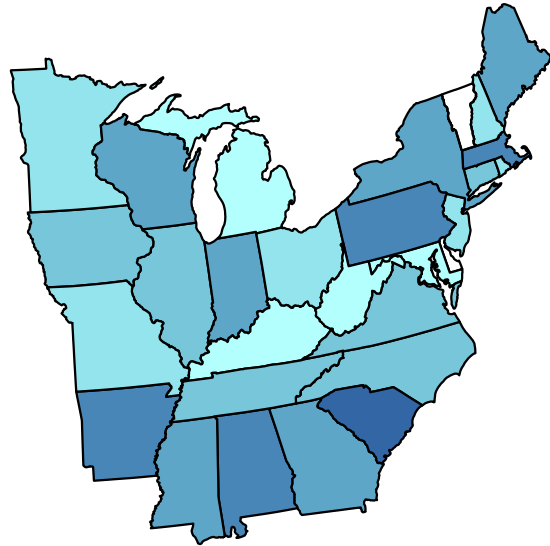
Are you a member of any of the following wildlife, forestry, or conservation organizations? Forest Landowners Association

Percent of respondents who said “Yes”

MEMBER_FL A – Landowners



MEMBER_FL A – Tree Farmers

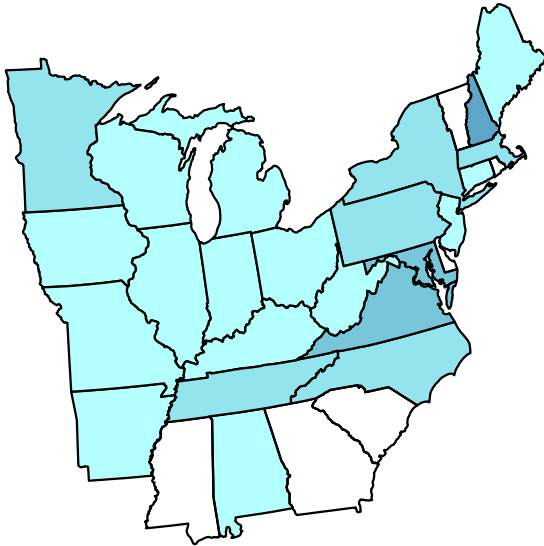


MEMBER_TNC

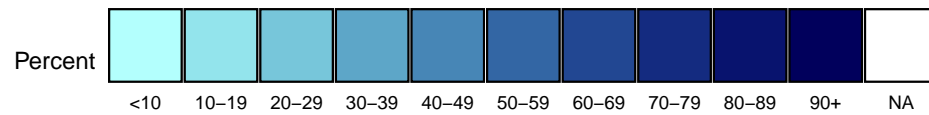
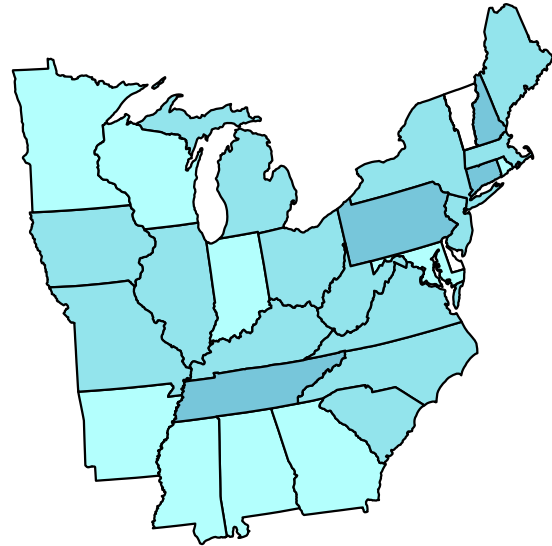
Are you a member of any of the following wildlife, forestry, or conservation organizations? The Nature Conservancy

Percent of respondents who said “Yes”

MEMBER_TNC – Landowners



MEMBER_TNC – Tree Farmers

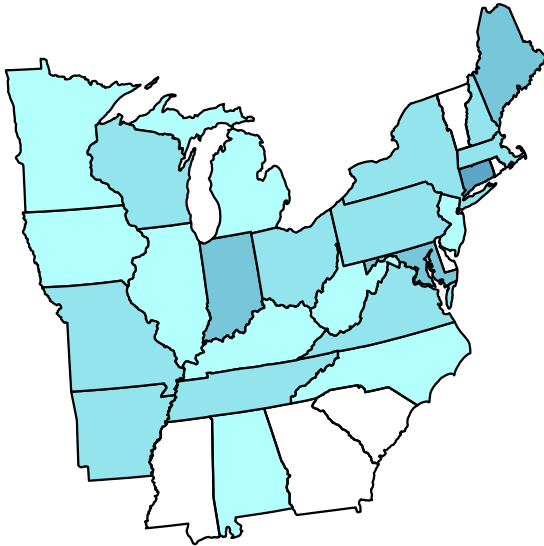


MEMBER_LOCAL

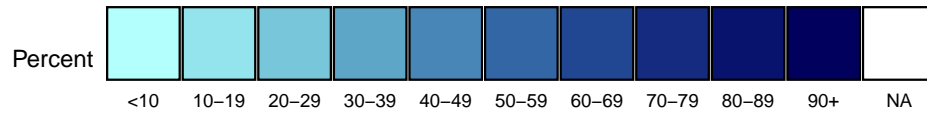
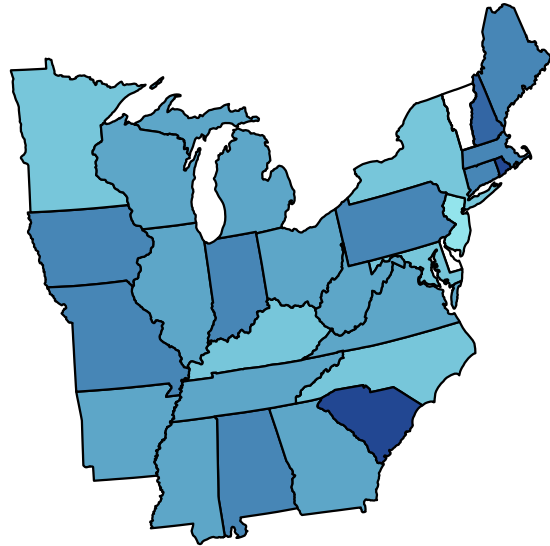
Are you a member of any of the following wildlife, forestry, or conservation organizations? Local wildlife, forestry, or conservation organization

Percent of respondents who said “Yes”

MEMBER_LOCAL – Landowners



MEMBER_LOCAL – Tree Farmers

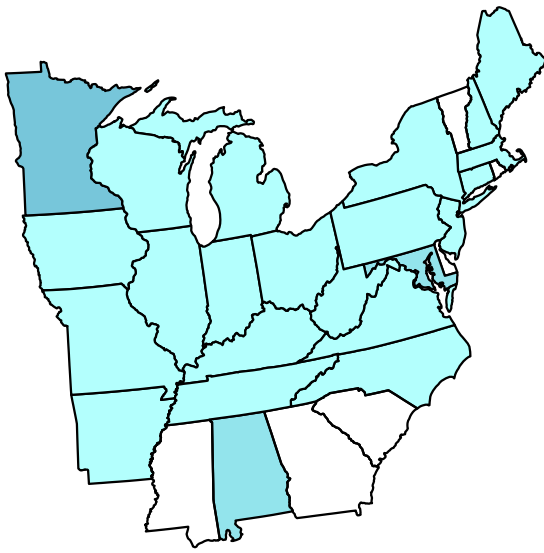


MEMBER_DU

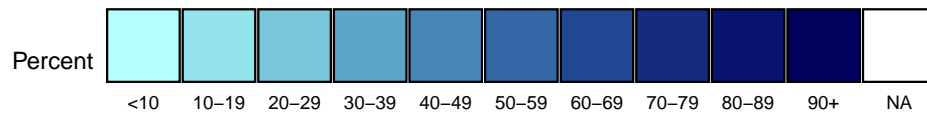
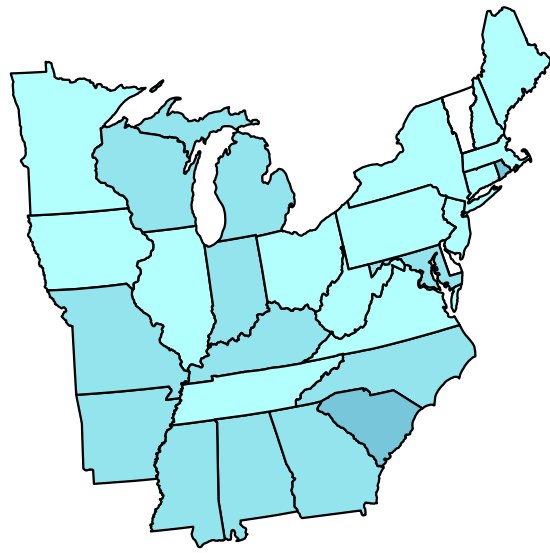
Are you a member of any of the following wildlife, forestry, or conservation organizations? Ducks Unlimited

Percent of respondents who said “Yes”

MEMBER_DU – Landowners



MEMBER_DU – Tree Farmers

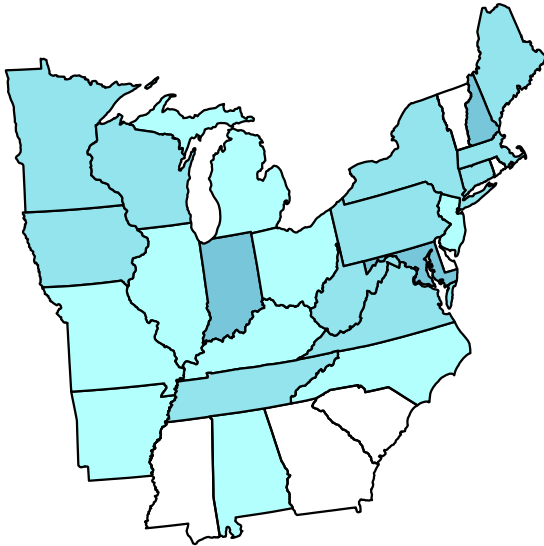


MEMBER_OTH

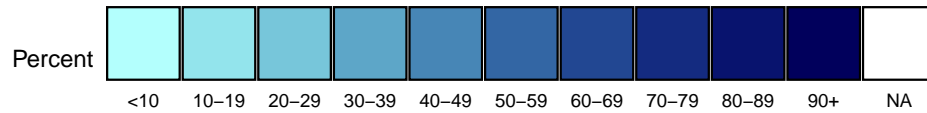
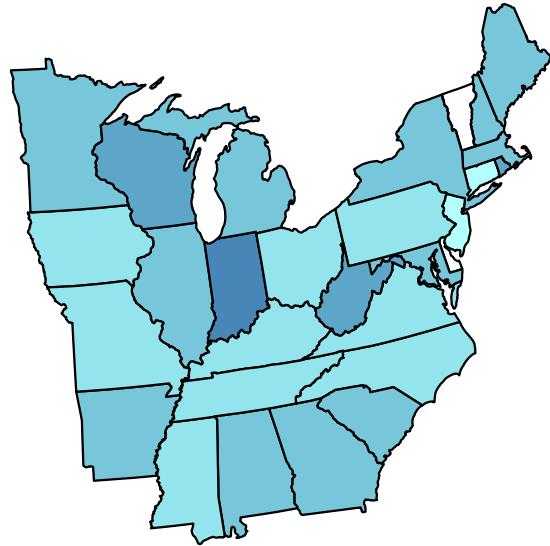
Are you a member of any of the following wildlife, forestry, or conservation organizations? Other (please specify)

Percent of respondents who said “Yes”

MEMBER_OTH – Landowners



MEMBER_OTH – Tree Farmers

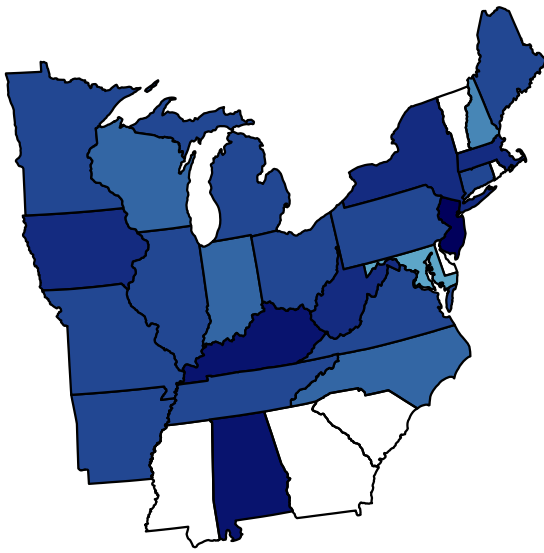


MEMBER_NONE

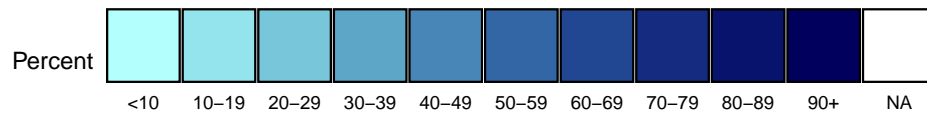
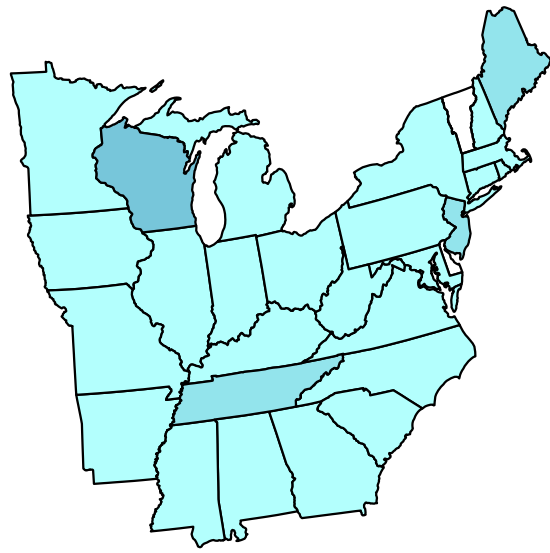
Are you a member of any of the following wildlife, forestry, or conservation organizations? None of the above

Percent of respondents who said “Yes”

MEMBER_NONE – Landowners



MEMBER_NONE – Tree Farmers

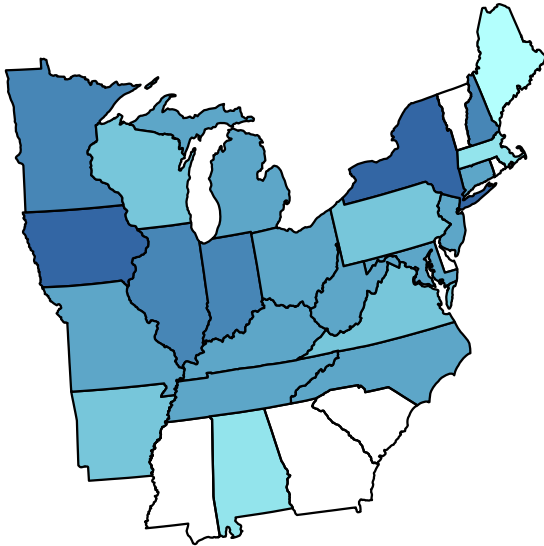


COOP_FEDERAL

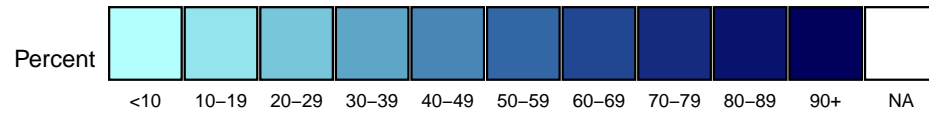
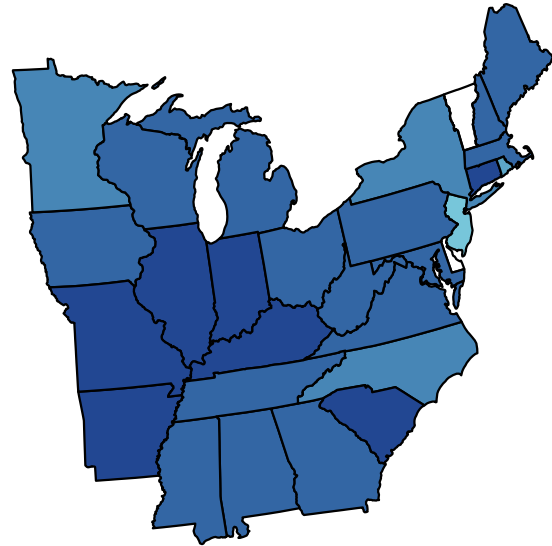
Which, if any, of the following organizations would you be interested in cooperating with to manage your wooded land in the future? Federal government forestry or wildlife agency, like those within USDA

Percent of respondents who said “Yes”

COOP_FEDERAL – Landowners



COOP_FEDERAL – Tree Farmers

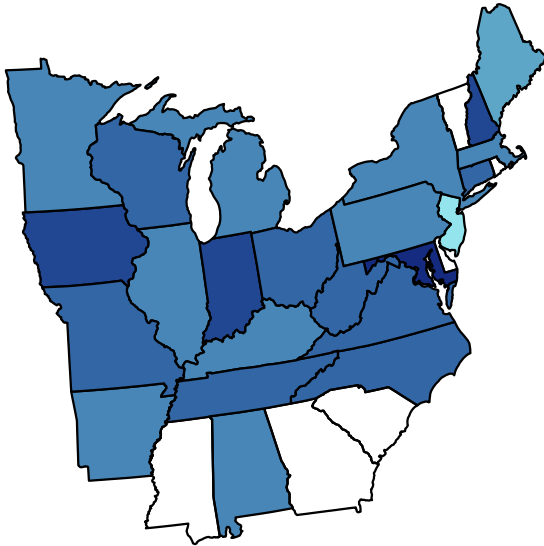


COOP_STATE

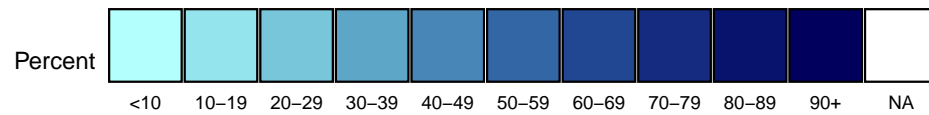
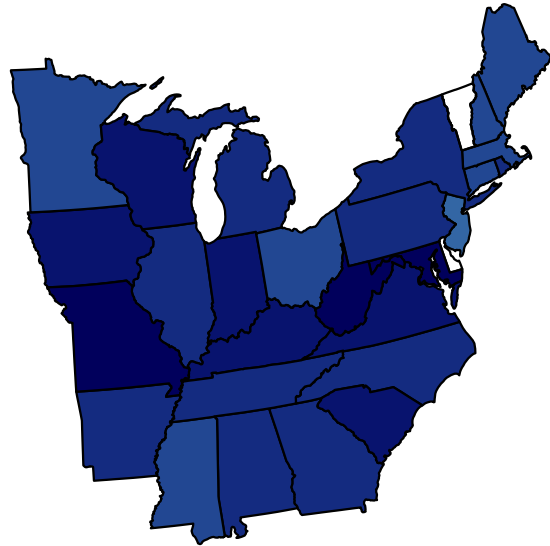
Which, if any, of the following organizations would you be interested in cooperating with to manage your wooded land in the future? State government forestry or wildlife agency

Percent of respondents who said “Yes”

COOP_STATE – Landowners



COOP_STATE – Tree Farmers

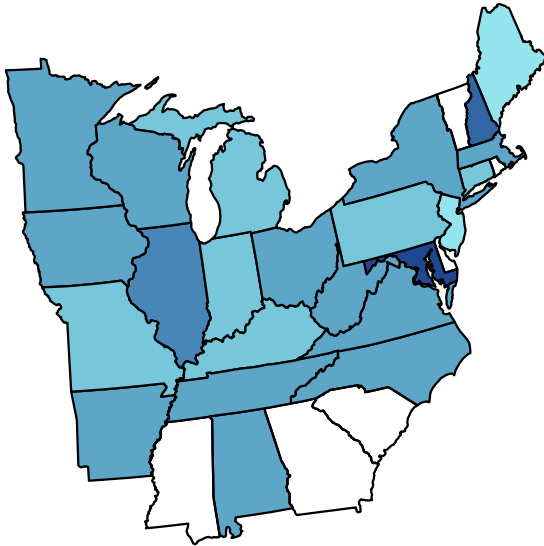


COOP_LOCAL

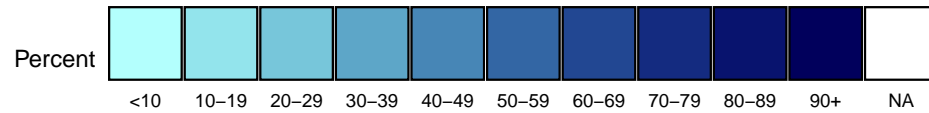
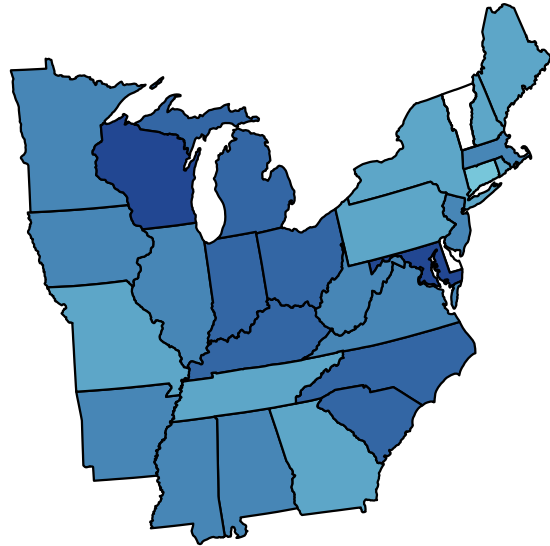
Which, if any, of the following organizations would you be interested in cooperating with to manage your wooded land in the future? Local government forestry or wildlife agency

Percent of respondents who said “Yes”

COOP_LOCAL – Landowners



COOP_LOCAL – Tree Farmers

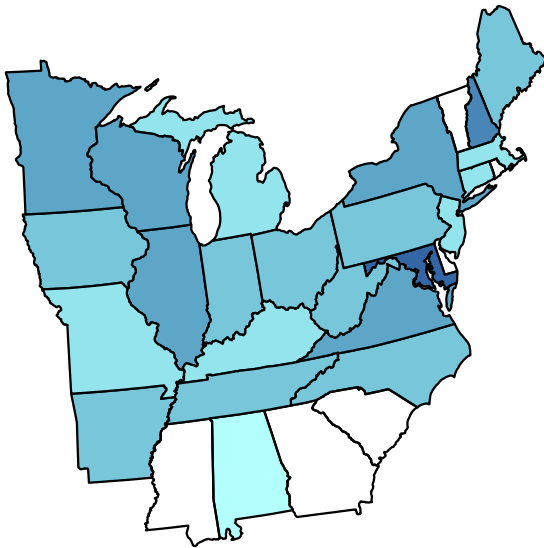


COOP_NONPROFIT

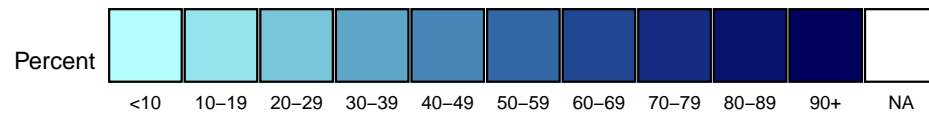
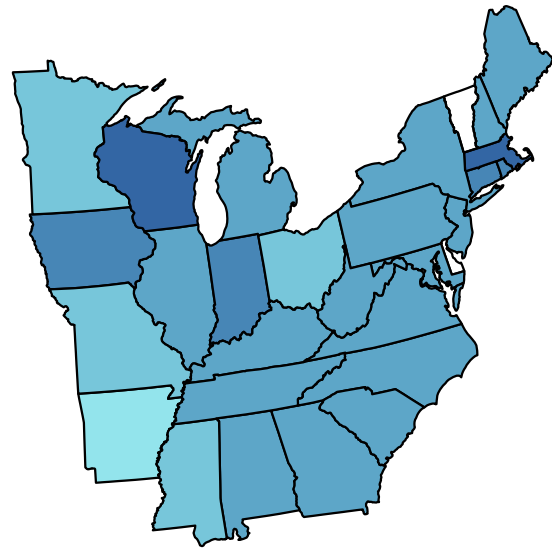
Which, if any, of the following organizations would you be interested in cooperating with to manage your wooded land in the future? Non-governmental forestry or wildlife organization

Percent of respondents who said “Yes”

COOP_NONPROFIT – Landowners



COOP_NONPROFIT – Tree Farmers

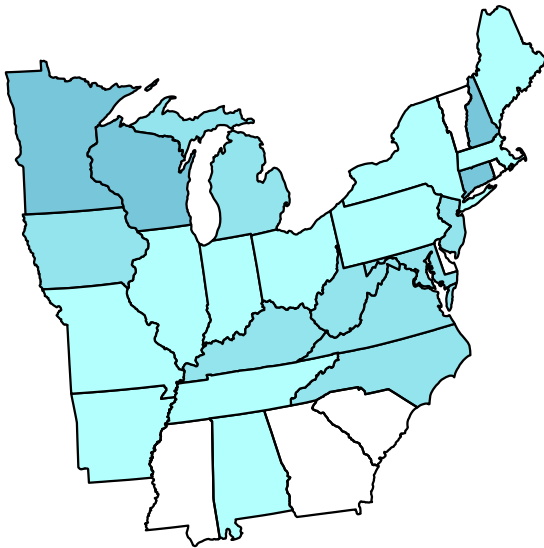


COOP_HUNT

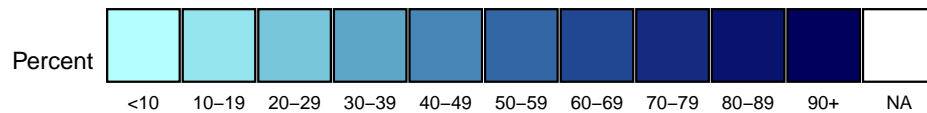
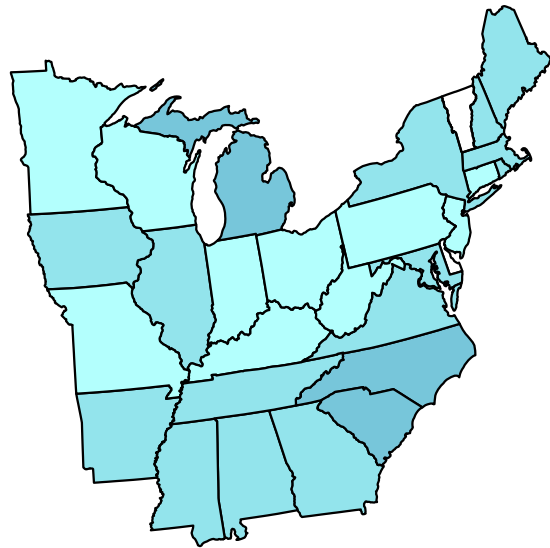
Which, if any, of the following organizations would you be interested in cooperating with to manage your wooded land in the future? Local hunting and fishing group

Percent of respondents who said “Yes”

COOP_HUNT – Landowners



COOP_HUNT – Tree Farmers

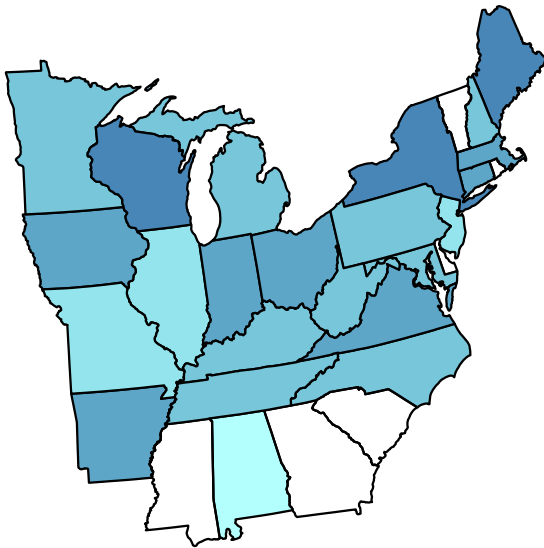


COOP_PRIVATE

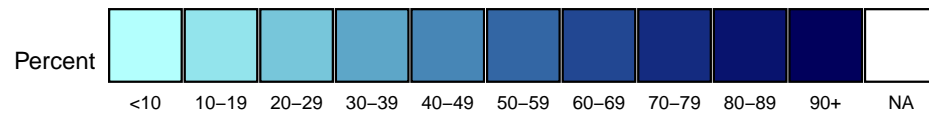
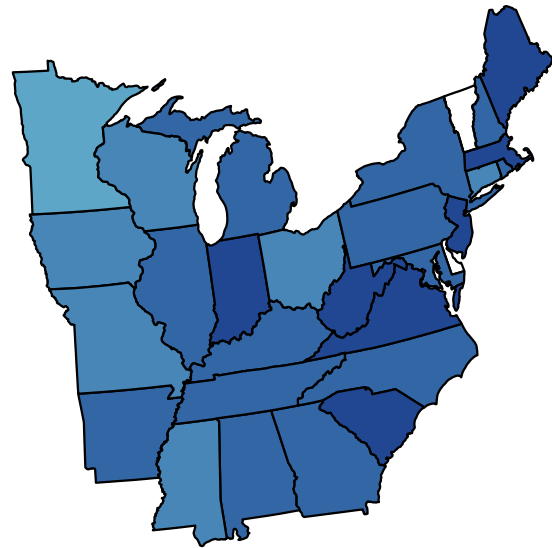
Which, if any, of the following organizations would you be interested in cooperating with to manage your wooded land in the future? Private, consulting forestry or wildlife professionals

Percent of respondents who said “Yes”

COOP_PRIVATE – Landowners



COOP_PRIVATE – Tree Farmers

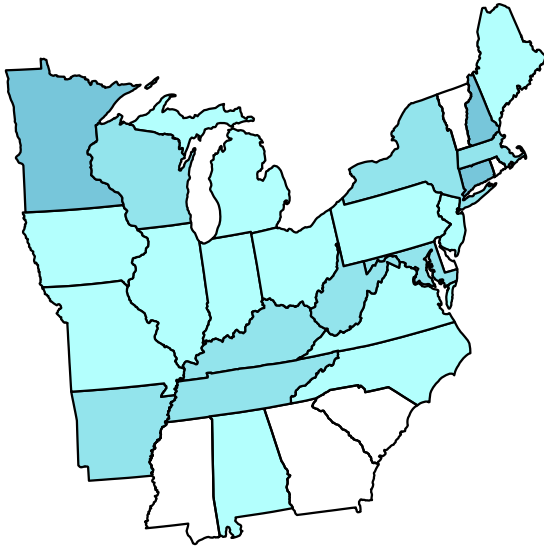


COOP_INDUSTRY

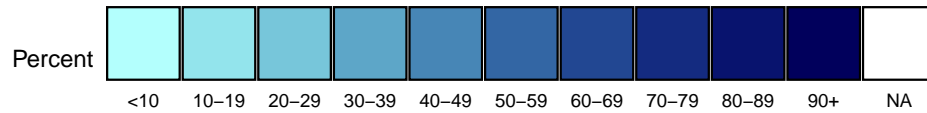
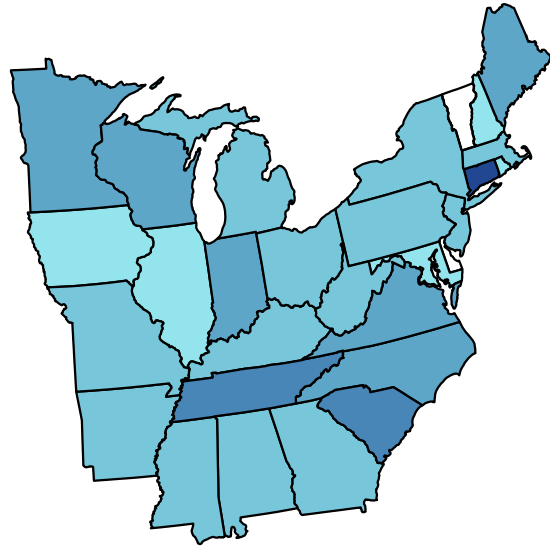
Which, if any, of the following organizations would you be interested in cooperating with to manage your wooded land in the future? Forest products companies

Percent of respondents who said “Yes”

COOP_INDUSTRY – Landowners



COOP_INDUSTRY – Tree Farmers

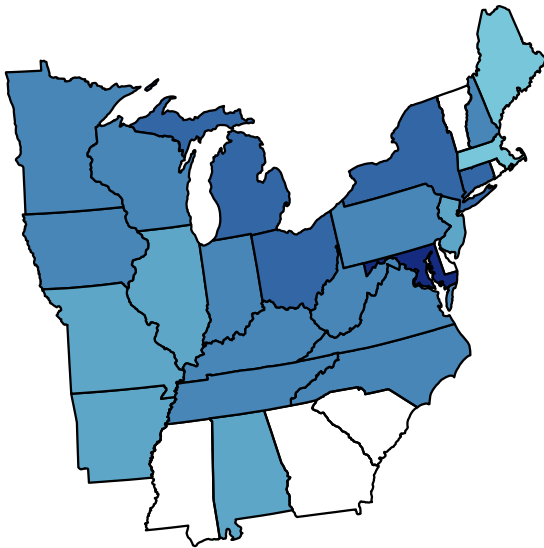


COOP_EXTENSION

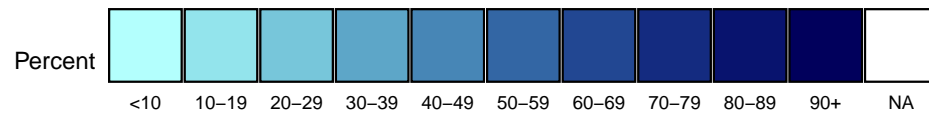
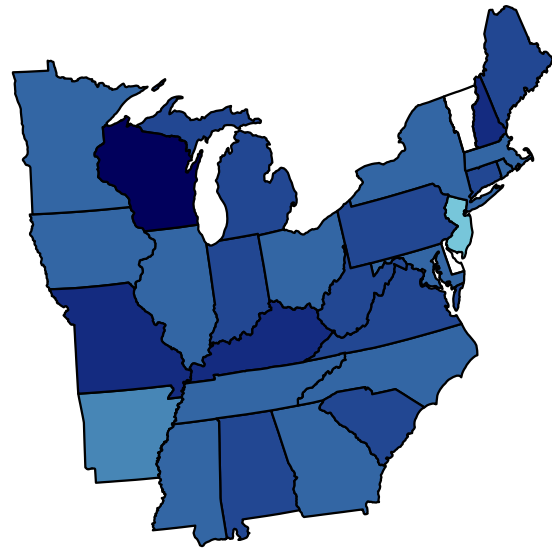
Which, if any, of the following organizations would you be interested in cooperating with to manage your wooded land in the future? University or extension department

Percent of respondents who said “Yes”

COOP_EXTENSION – Landowners



COOP_EXTENSION – Tree Farmers



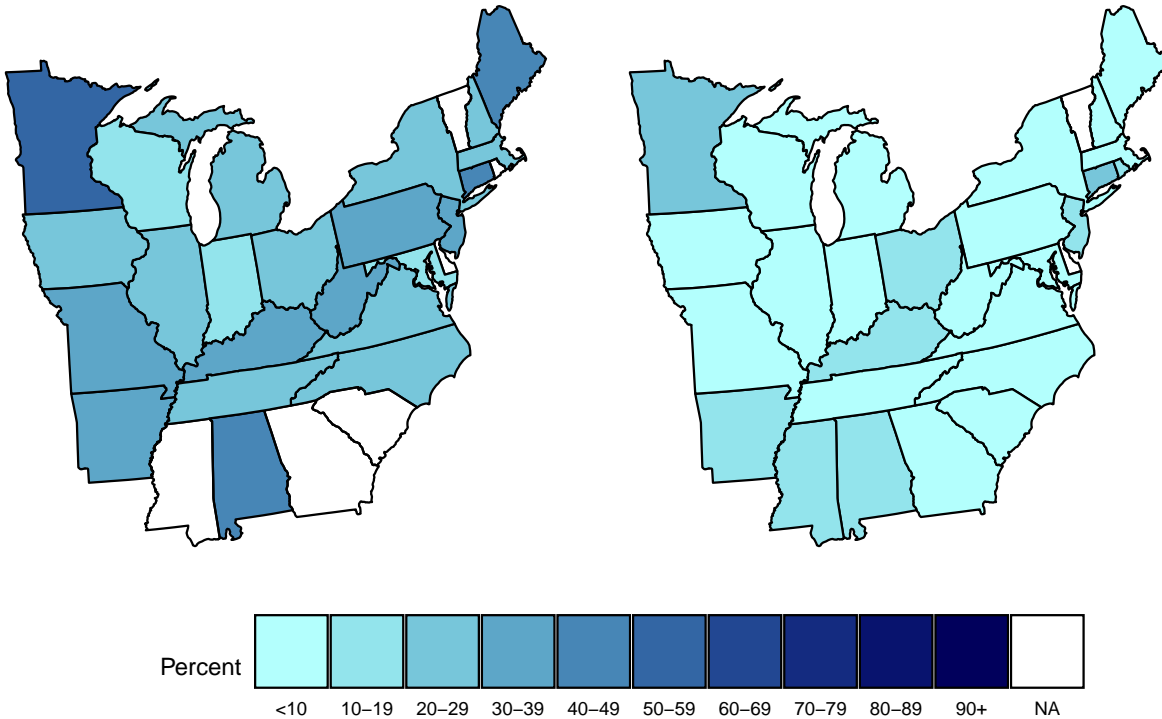
COOP_NONE

Which, if any, of the following organizations would you be interested in cooperating with to manage your wooded land in the future? None of the above

Percent of respondents who said “Yes”

COOP_NONE – Landowners

COOP_NONE – Tree Farmers



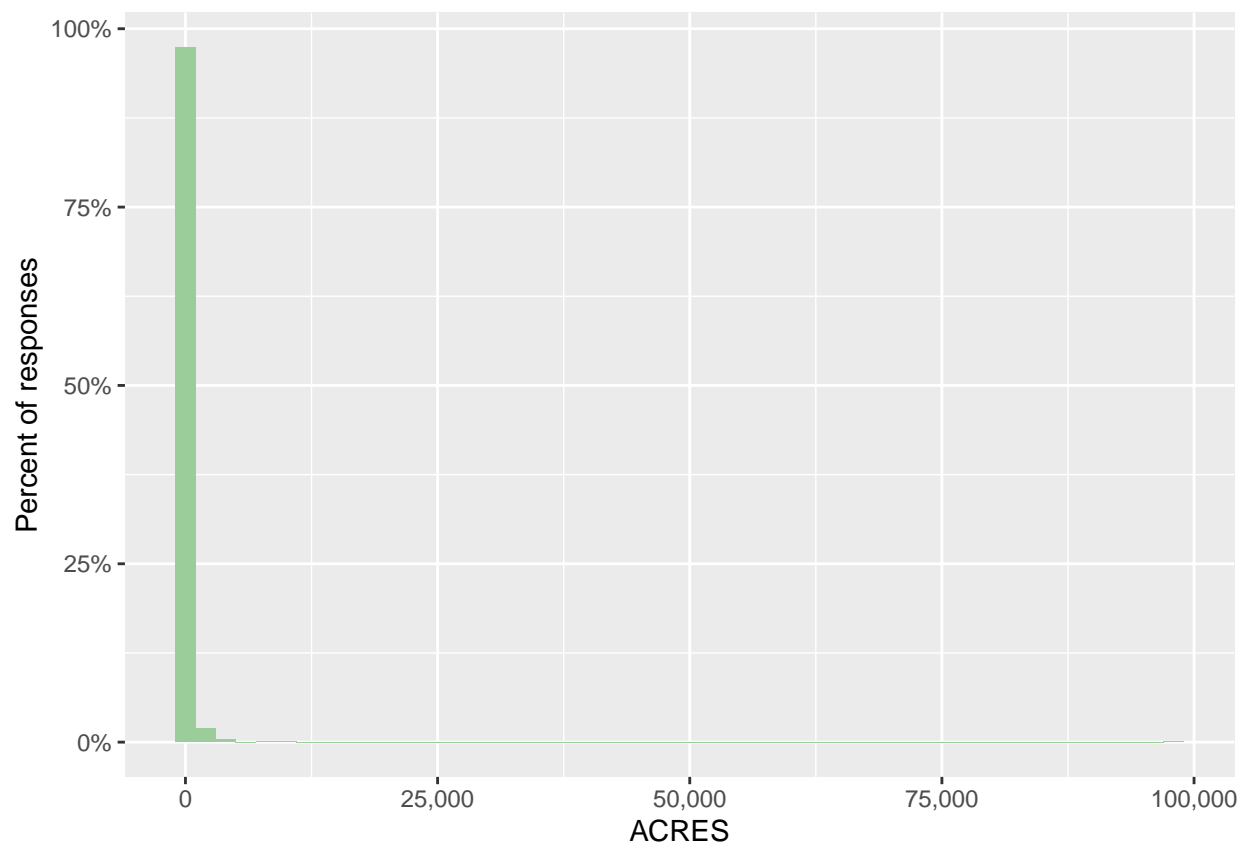
WOI_nonresponse

Emma Sass, Brett Butler, Amanda Robillard, Jesse Caputo

July 27, 2020

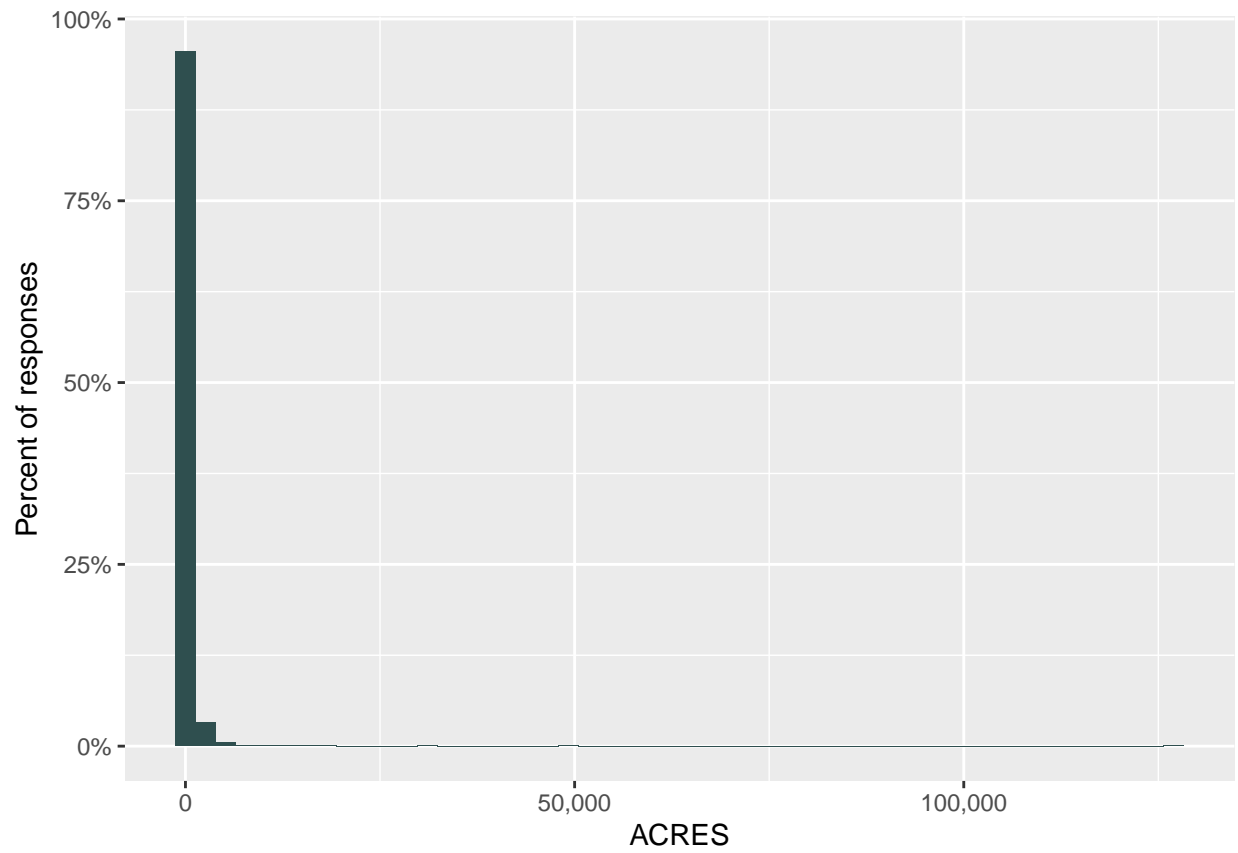
AC_WOOD

How many acres of wooded land do you currently own in STATE?



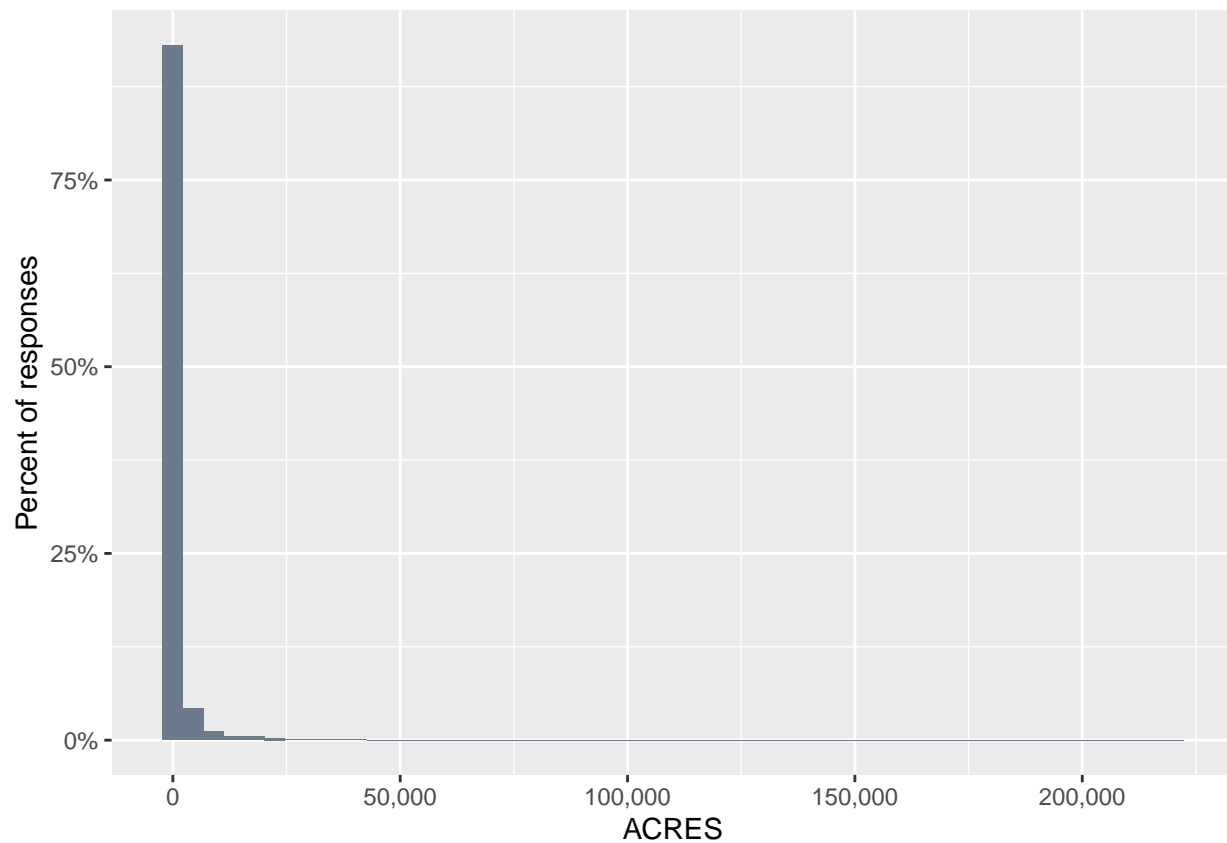
Landowner totals

| Min. | 1st Qu. | Median | Mean | 3rd Qu. | Max. |
|------|---------|--------|---------|---------|-------|
| 0 | 30 | 79 | 280.397 | 171 | 98000 |



Tree Farmer totals

| Min. | 1st Qu. | Median | Mean | 3rd Qu. | Max. |
|------|---------|--------|----------|---------|--------|
| 0 | 50 | 110 | 479.4015 | 260 | 127000 |



National Woodland Owner Survey totals

| Min. | 1st Qu. | Median | Mean | 3rd Qu. | Max. |
|------|---------|--------|----------|---------|--------|
| 10 | 43 | 108.5 | 868.2897 | 348.5 | 220000 |

W = 5106874

p = 3.648261e-42

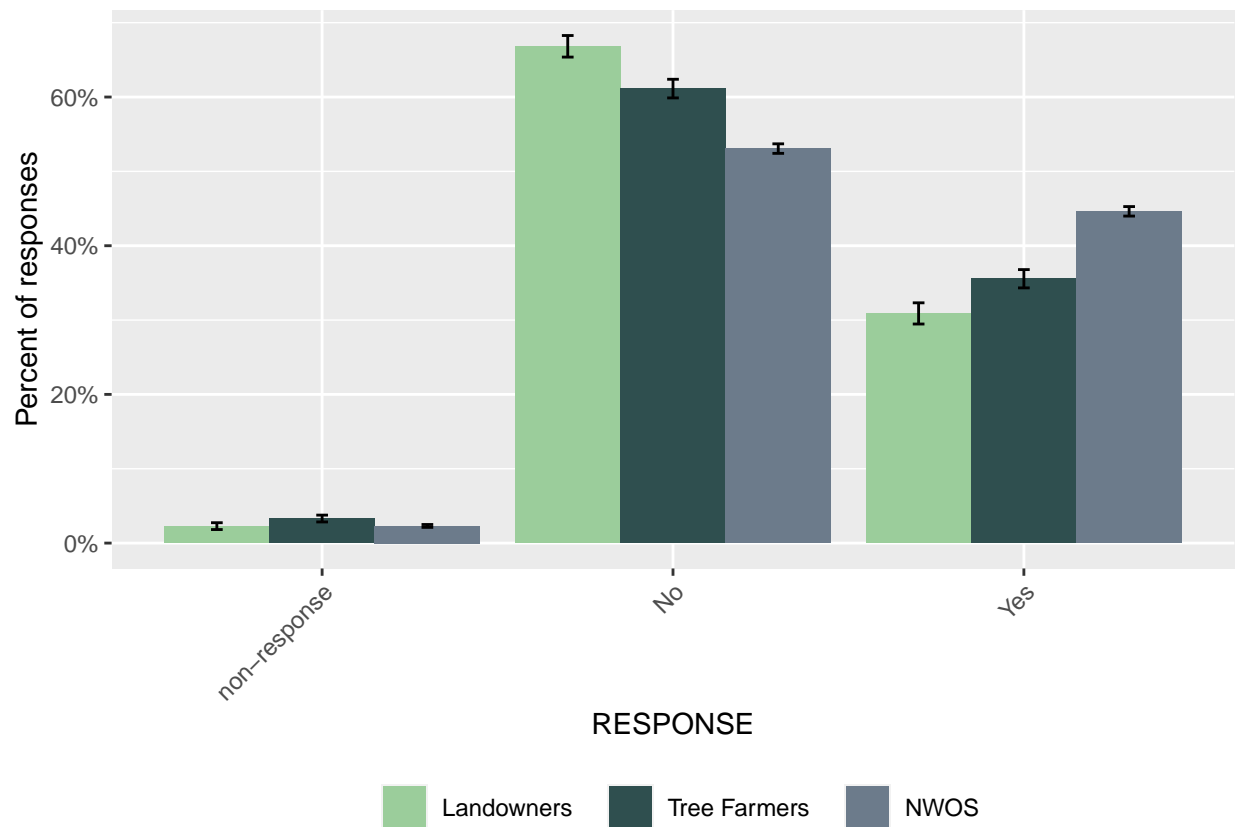
Adjusted p-value (correcting for all 14 tests, method = Holm): 5.107565e-41

Effect size (Cohen's d) = -0.1476084 ; Level = negligible

Effect size 95% CI = -0.1972805 -0.09793629

PARCEL

Do you currently own more than one separate, unconnected property with wooded land in STATE?



Landowner totals

| | n |
|--------------|-----|
| non-response | 24 |
| No | 703 |
| Yes | 325 |

Tree Farmer totals

| | n |
|--------------|-----|
| non-response | 50 |
| No | 925 |
| Yes | 538 |

National Woodland Owner Survey totals

| | n |
|--------------|------|
| non-response | 140 |
| No | 3220 |
| Yes | 2708 |

Effect size (Cohen's d) = -0.2570659 ; Level = small

Effect size 95% CI = -0.3226703 -0.1914616

Analysis: Chi square

X-squared = 70.51043

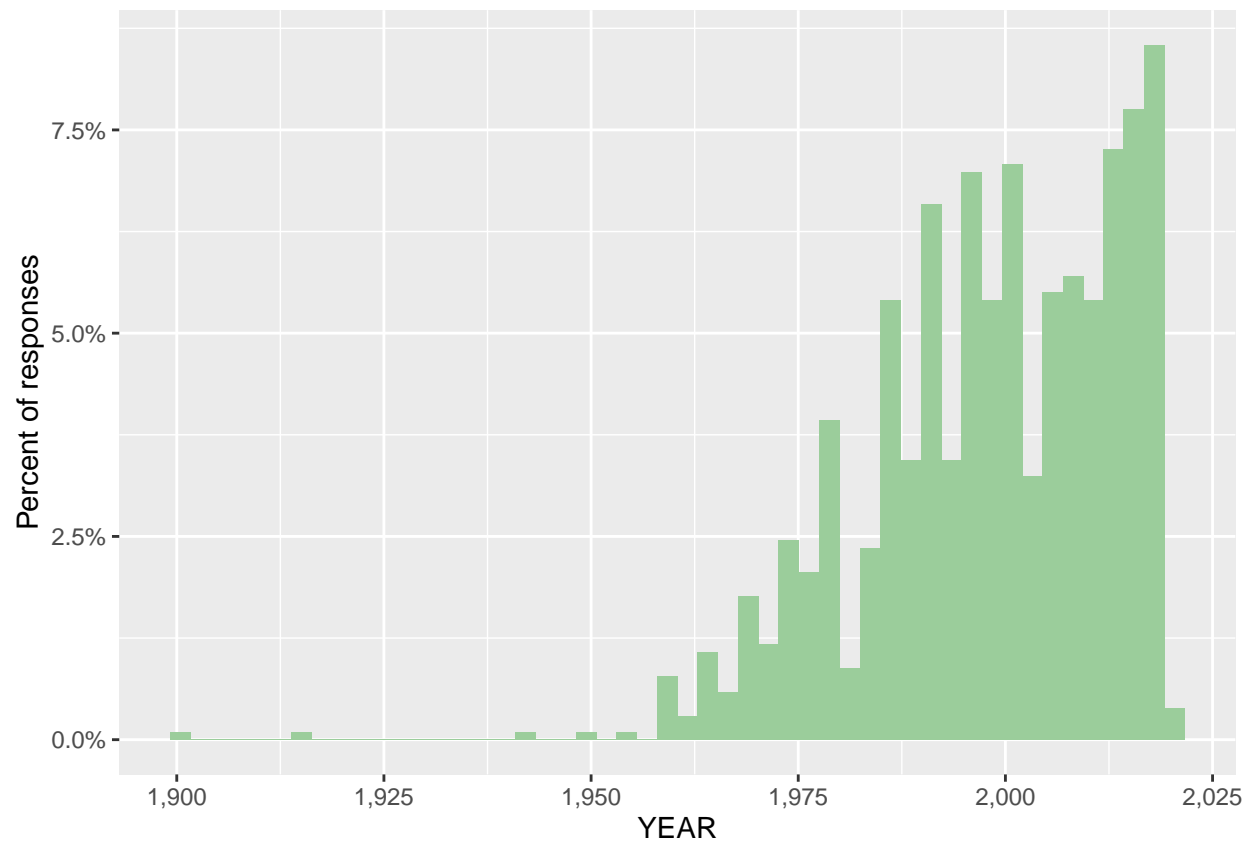
df = 2

p = 4.884881e-16

Adjusted p-value (correcting for all 14 tests, method = Holm): 6.838833e-15

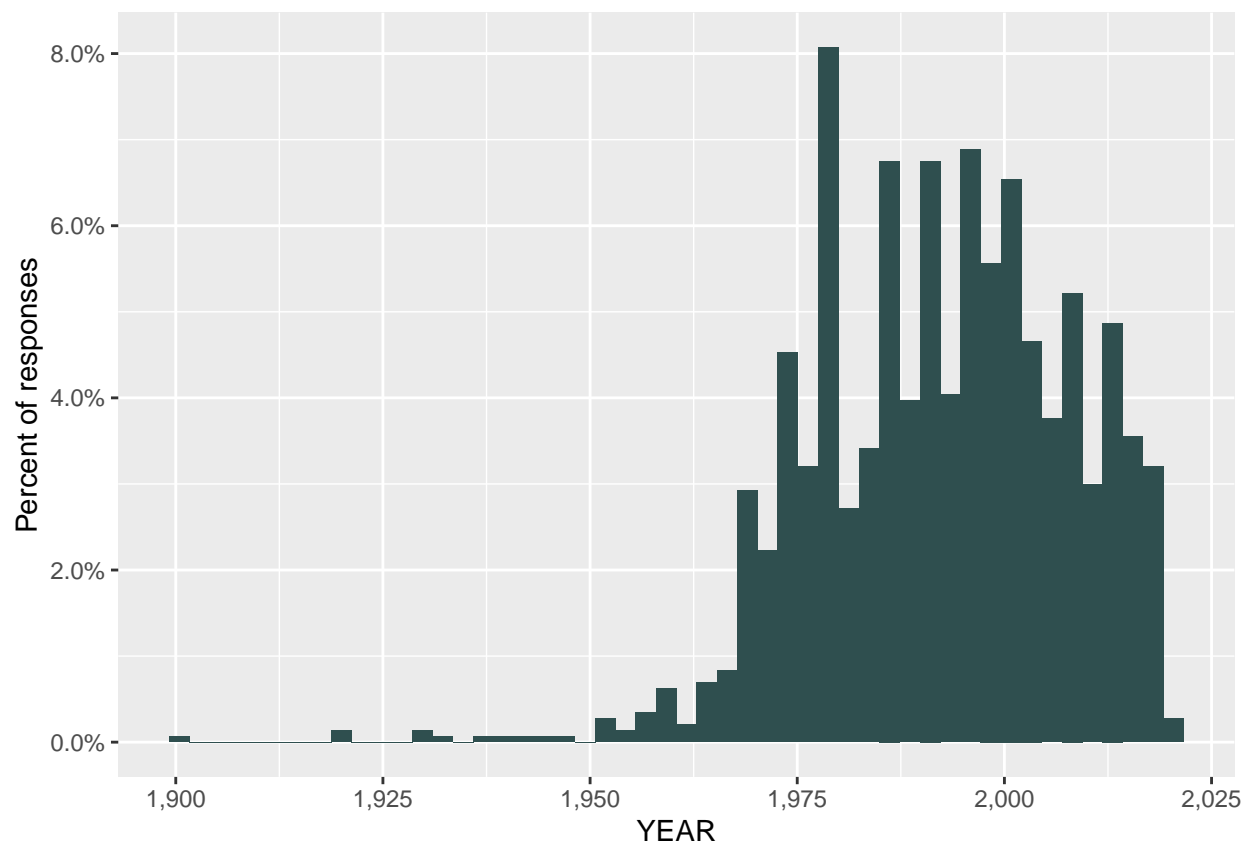
YEAR_ACQUIRE

In what year did you, personally, first take ownership of your wooded land?



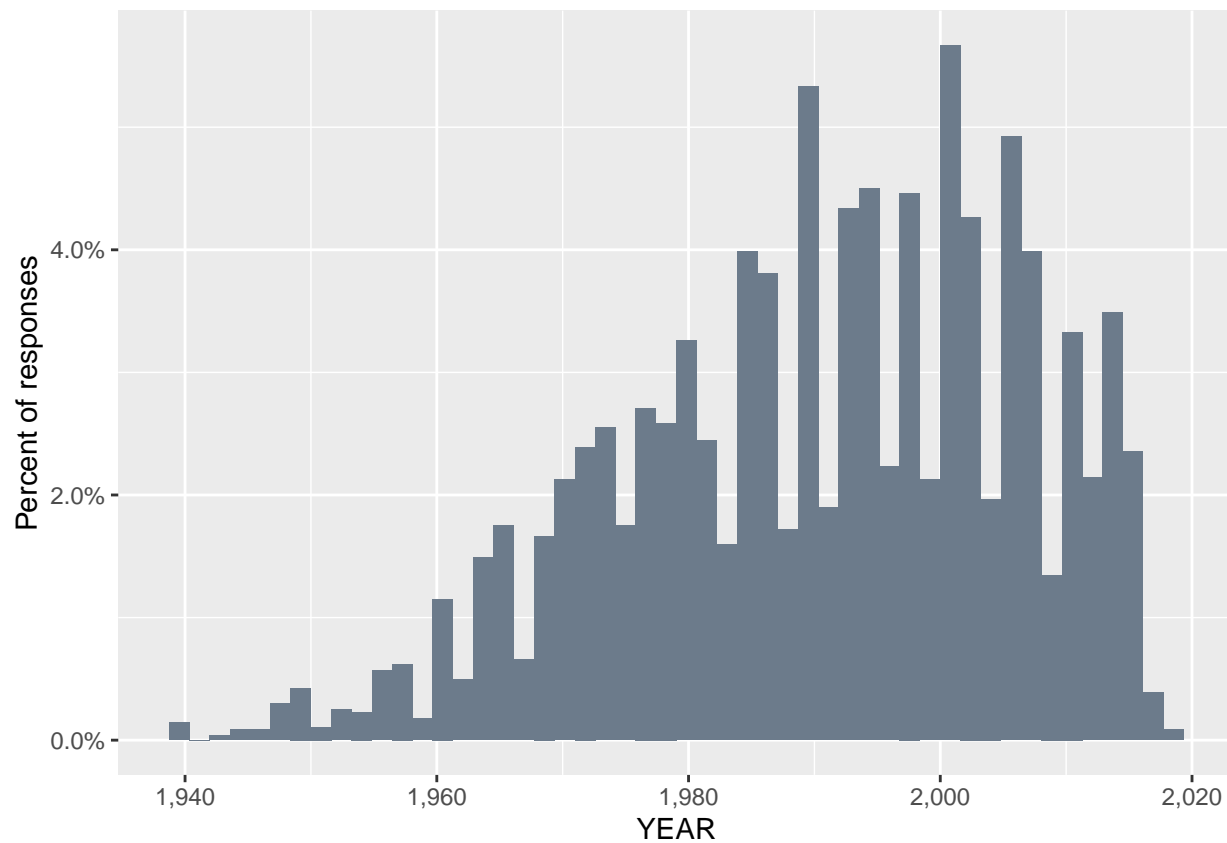
Landowner totals

| Min. | 1st Qu. | Median | Mean | 3rd Qu. | Max. |
|------|---------|--------|----------|---------|------|
| 1900 | 1988 | 2000 | 1998.132 | 2011 | 2020 |



Tree Farmer totals

| Min. | 1st Qu. | Median | Mean | 3rd Qu. | Max. |
|------|---------|--------|----------|---------|------|
| 1900 | 1981 | 1994 | 1992.341 | 2004 | 2020 |



National Woodland Owner Survey totals

| Min. | 1st Qu. | Median | Mean | 3rd Qu. | Max. |
|------|---------|--------|----------|---------|------|
| 1939 | 1980 | 1992 | 1990.592 | 2003 | 2018 |

W = 7352733

p = 3.822287e-78

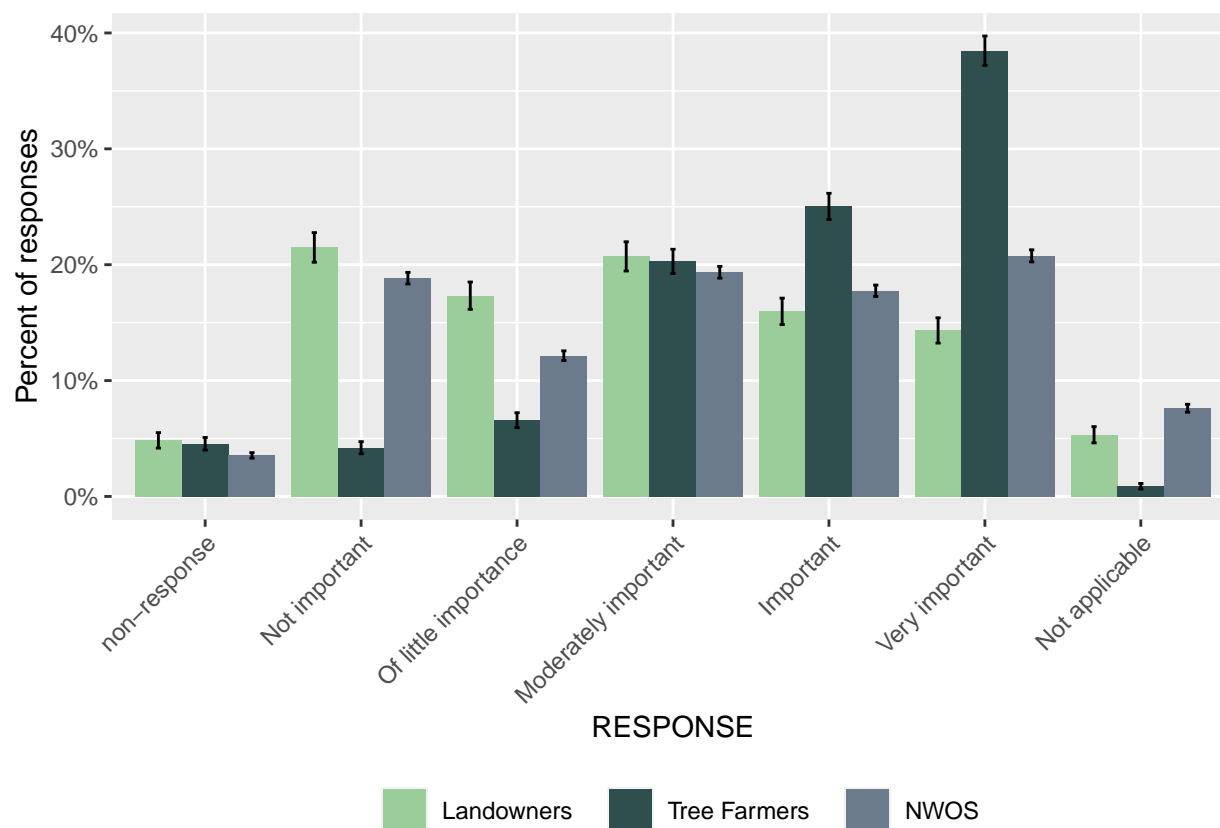
Adjusted p-value (correcting for all 14 tests, method = Holm): 5.351201e-77

Effect size (Cohen's d) = 0.4830908 ; Level = small

Effect size 95% CI = 0.4318431 0.5343386

OBJ_TIMBER

How important are the following as reasons for why you currently own your wooded land? For timber products, such as logs or pulpwood



Landowner totals

| | n |
|----------------------|-----|
| non-response | 50 |
| Not important | 222 |
| Of little importance | 179 |
| Moderately important | 214 |
| Important | 165 |
| Very important | 148 |
| Not applicable | 55 |

Tree Farmer totals

| | n |
|----------------------|-----|
| non-response | 67 |
| Not important | 62 |
| Of little importance | 97 |
| Moderately important | 299 |
| Important | 369 |
| Very important | 567 |
| Not applicable | 13 |

National Woodland Owner Survey totals

| | n |
|----------------------|------|
| non-response | 215 |
| Not important | 1143 |
| Of little importance | 737 |
| Moderately important | 1174 |
| Important | 1077 |
| Very important | 1260 |
| Not applicable | 462 |

Effect size (Cohen's d) = -0.2139883 ; Level = small

Effect size 95% CI = -0.2800616 -0.147915

Analysis: Chi square

X-squared = 52.83606

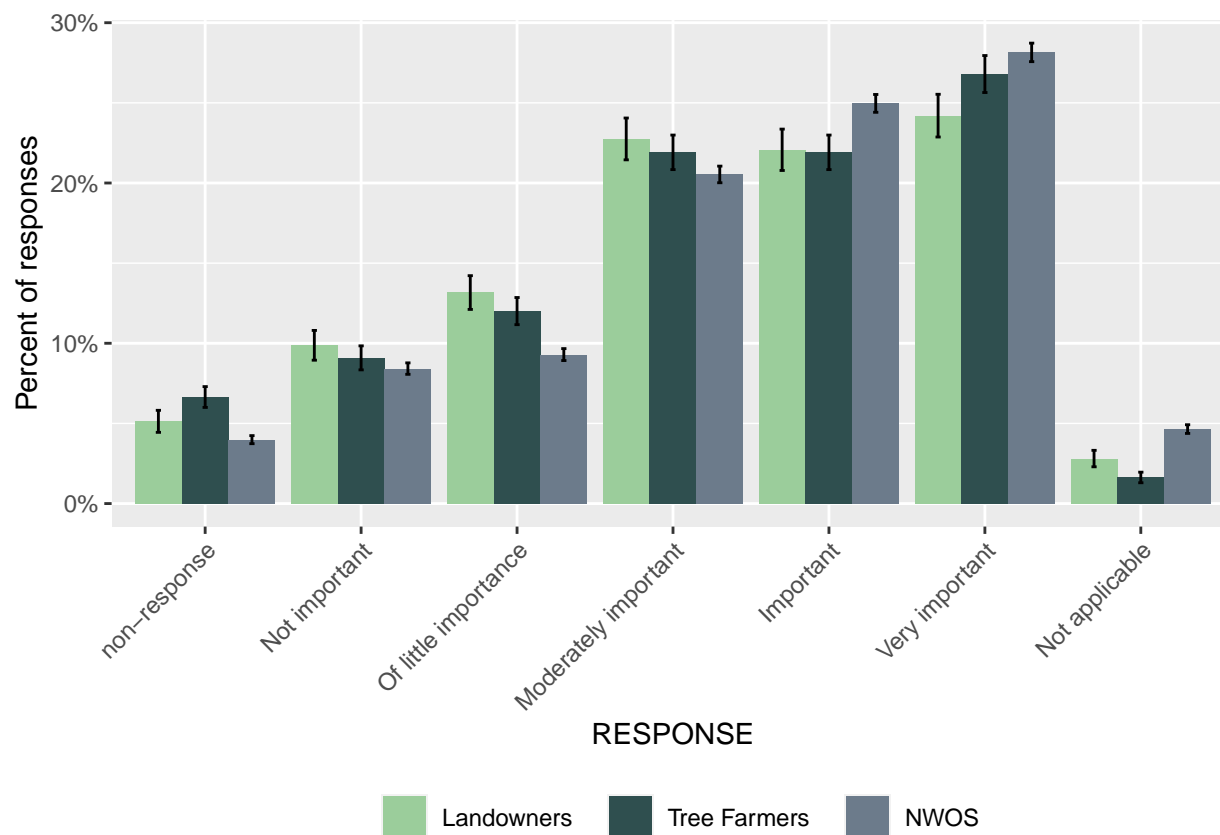
df = 6

p = 1.265947e-09

Adjusted p-value (correcting for all 14 tests, method = Holm): 1.772326e-08

OBJ_LAND

How important are the following as reasons for why you currently own your wooded land? For land investment



Landowner totals

| | n |
|----------------------|-----|
| non-response | 53 |
| Not important | 102 |
| Of little importance | 136 |
| Moderately important | 235 |
| Important | 228 |
| Very important | 250 |
| Not applicable | 29 |

Tree Farmer totals

| | n |
|----------------------|-----|
| non-response | 98 |
| Not important | 134 |
| Of little importance | 177 |
| Moderately important | 323 |
| Important | 323 |
| Very important | 395 |
| Not applicable | 24 |

National Woodland Owner Survey totals

| | n |
|----------------------|------|
| non-response | 242 |
| Not important | 511 |
| Of little importance | 564 |
| Moderately important | 1246 |
| Important | 1515 |
| Very important | 1708 |
| Not applicable | 282 |

Effect size (Cohen's d) = -0.1760177 ; Level = negligible

Effect size 95% CI = -0.2420607 -0.1099747

Analysis: Chi square

X-squared = 35.25084

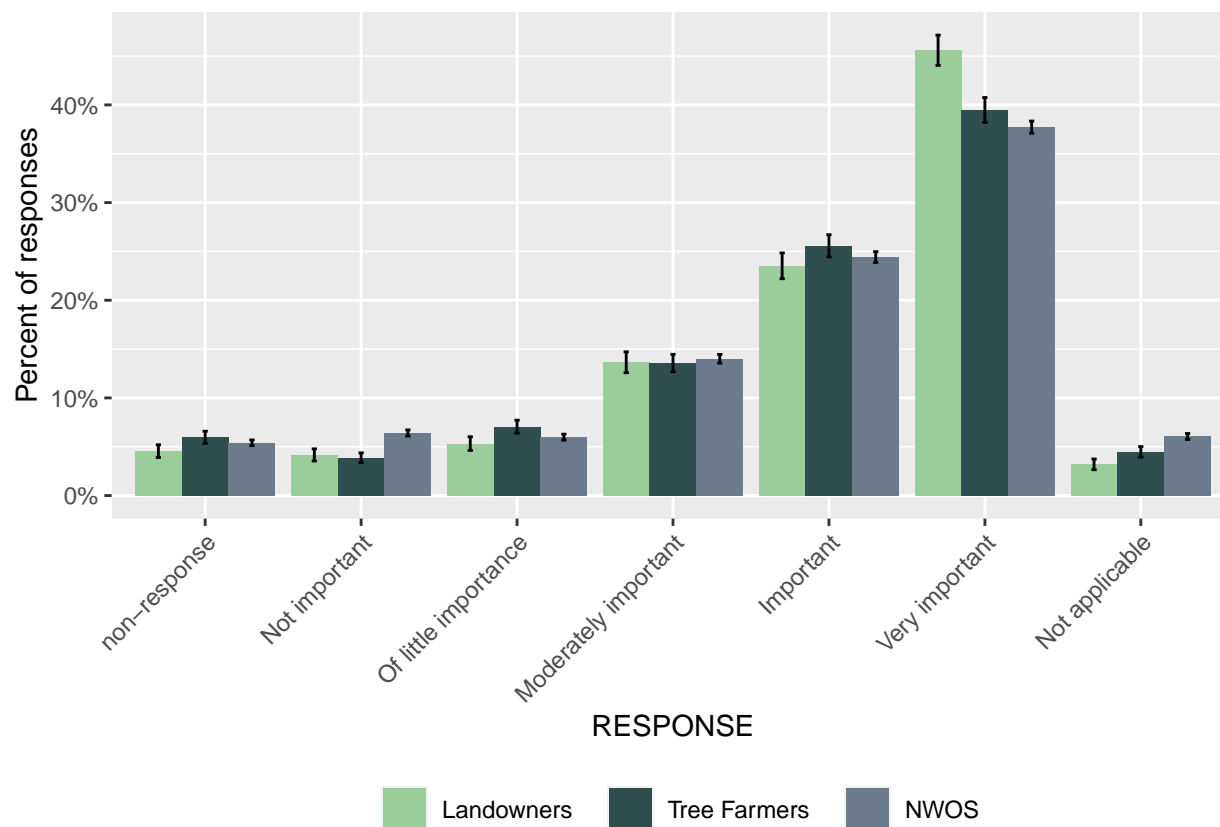
df = 6

p = 3.853095e-06

Adjusted p-value (correcting for all 14 tests, method = Holm): 5.394334e-05

OBJ_PRIV

How important are the following as reasons for why you currently own your wooded land? For privacy



Landowner totals

| | n |
|----------------------|-----|
| non-response | 47 |
| Not important | 43 |
| Of little importance | 55 |
| Moderately important | 141 |
| Important | 243 |
| Very important | 471 |
| Not applicable | 33 |

Tree Farmer totals

| | n |
|----------------------|-----|
| non-response | 88 |
| Not important | 57 |
| Of little importance | 104 |
| Moderately important | 200 |
| Important | 377 |
| Very important | 582 |
| Not applicable | 66 |

National Woodland Owner Survey totals

| | n |
|----------------------|------|
| non-response | 328 |
| Not important | 389 |
| Of little importance | 363 |
| Moderately important | 850 |
| Important | 1482 |
| Very important | 2289 |
| Not applicable | 367 |

Effect size (Cohen's d) = 0.09122511 ; Level = negligible

Effect size 95% CI = 0.02522856 0.1572217

Analysis: Chi square

X-squared = 36.41755

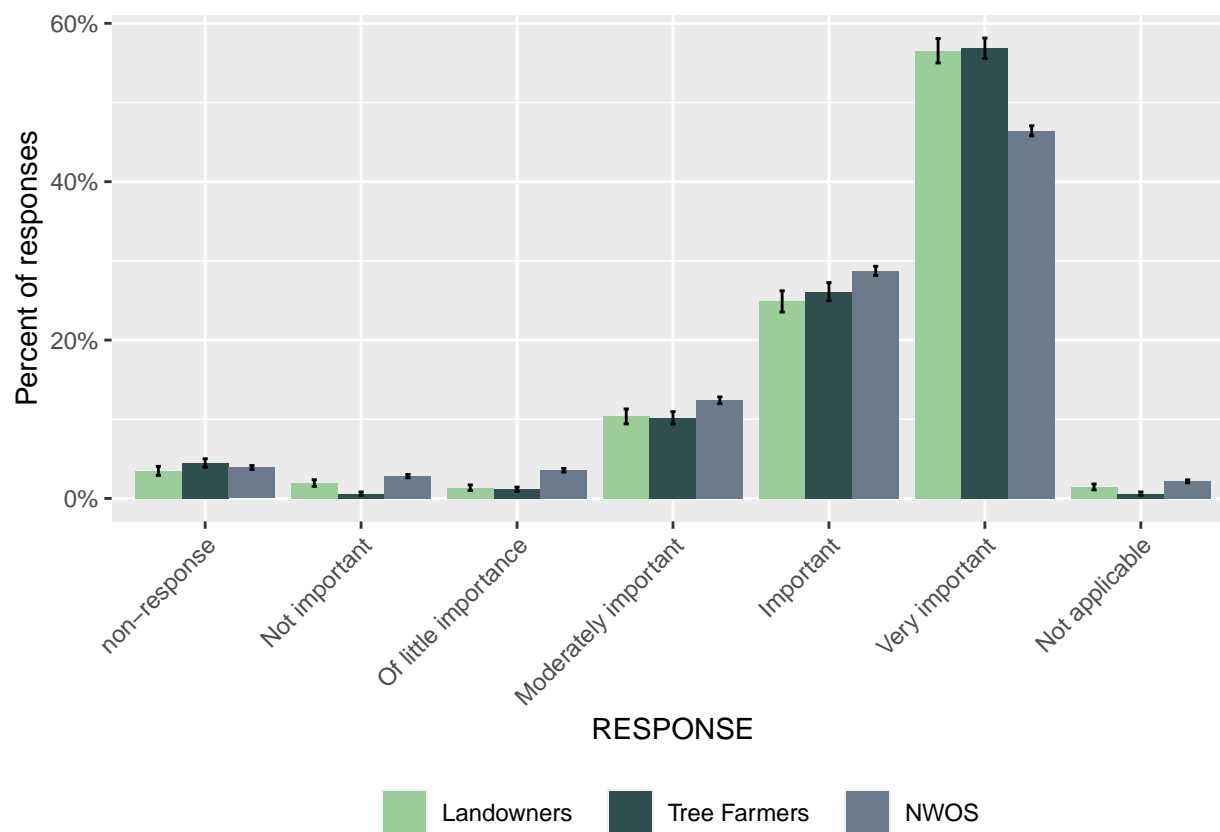
df = 6

p = 2.28652e-06

Adjusted p-value (correcting for all 14 tests, method = Holm): 3.201129e-05

OBJ_BEA

How important are the following as reasons for why you currently own your wooded land? To enjoy beauty or scenery



Landowner totals

| | n |
|----------------------|-----|
| non-response | 36 |
| Not important | 20 |
| Of little importance | 14 |
| Moderately important | 107 |
| Important | 257 |
| Very important | 584 |
| Not applicable | 15 |

Tree Farmer totals

| | n |
|----------------------|-----|
| non-response | 66 |
| Not important | 9 |
| Of little importance | 17 |
| Moderately important | 150 |
| Important | 385 |
| Very important | 838 |
| Not applicable | 9 |

National Woodland Owner Survey totals

| | n |
|----------------------|------|
| non-response | 237 |
| Not important | 171 |
| Of little importance | 216 |
| Moderately important | 752 |
| Important | 1744 |
| Very important | 2817 |
| Not applicable | 131 |

Effect size (Cohen's d) = 0.151352 ; Level = negligible

Effect size 95% CI = 0.08532557 0.2173785

Analysis: Chi square

X-squared = 44.88031

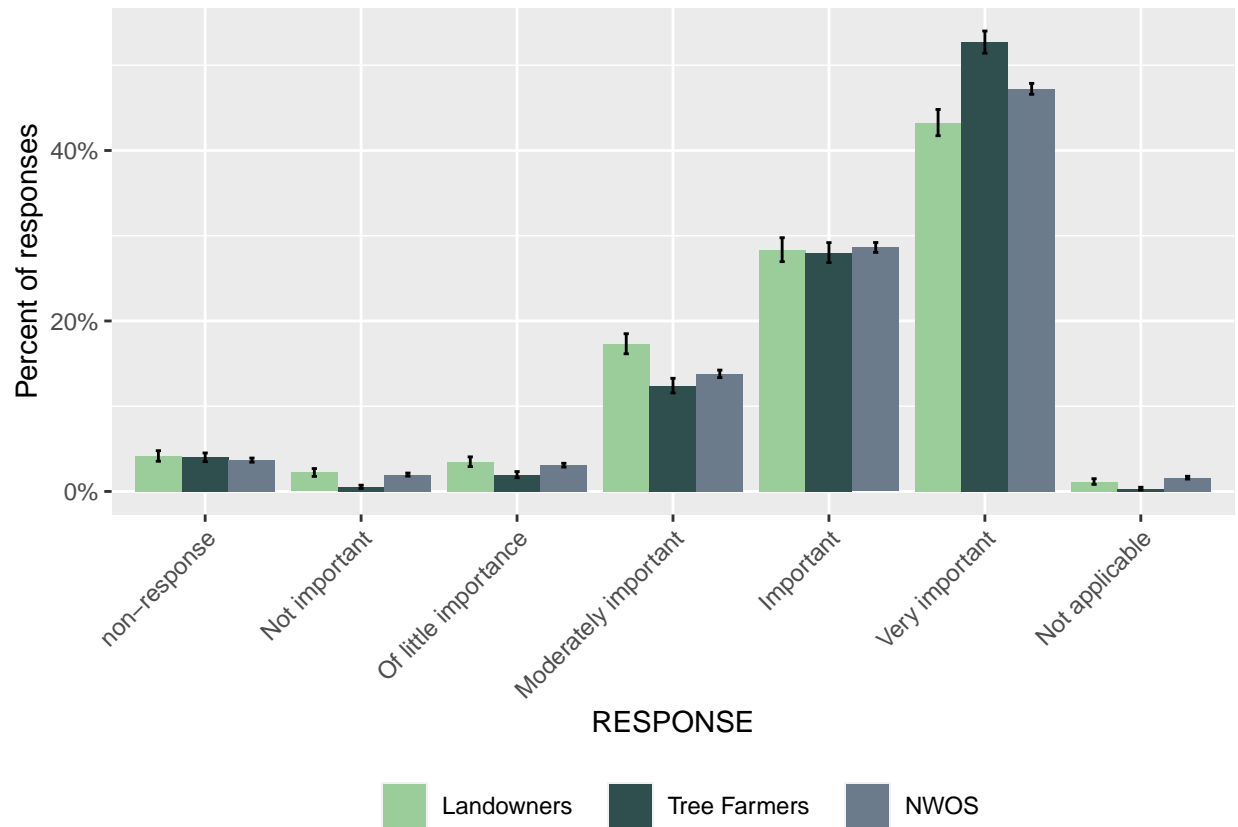
df = 6

p = 4.943619e-08

Adjusted p-value (correcting for all 14 tests, method = Holm): 6.921066e-07

OBJ_WILD

How important are the following as reasons for why you currently own your wooded land? To protect or improve wildlife habitat



Landowner totals

| | n |
|----------------------|-----|
| non-response | 43 |
| Not important | 23 |
| Of little importance | 36 |
| Moderately important | 179 |
| Important | 293 |
| Very important | 447 |
| Not applicable | 12 |

Tree Farmer totals

| | n |
|----------------------|-----|
| non-response | 59 |
| Not important | 8 |
| Of little importance | 29 |
| Moderately important | 183 |
| Important | 413 |
| Very important | 777 |
| Not applicable | 5 |

National Woodland Owner Survey totals

| | n |
|----------------------|------|
| non-response | 223 |
| Not important | 120 |
| Of little importance | 187 |
| Moderately important | 837 |
| Important | 1737 |
| Very important | 2866 |
| Not applicable | 98 |

Effect size (Cohen's d) = -0.09501143 ; Level = negligible

Effect size 95% CI = -0.1610094 -0.02901343

Analysis: Chi square

X-squared = 13.15482

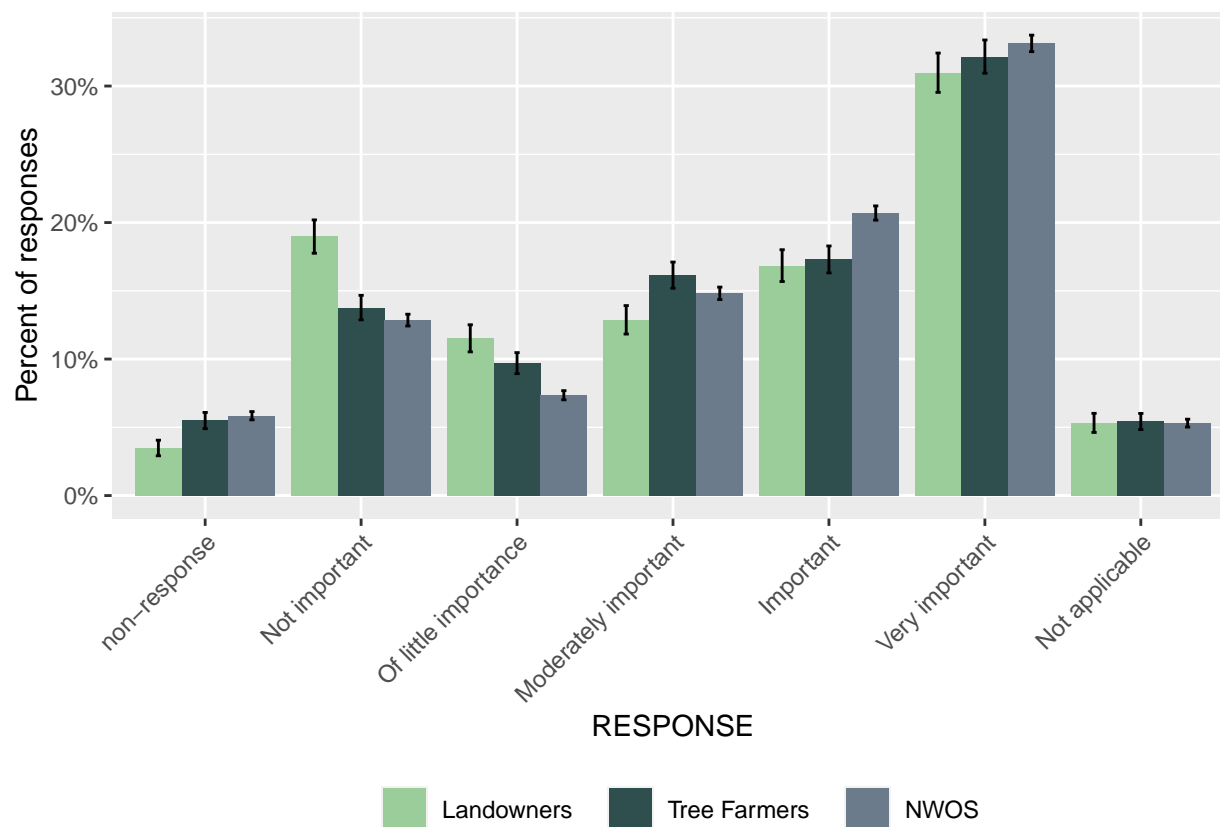
df = 6

p = 0.04064228

Adjusted p-value (correcting for all 14 tests, method = Holm): 0.5689919

OBJ_HUNT

How important are the following as reasons for why you currently own your wooded land? For hunting



Landowner totals

| | n |
|----------------------|-----|
| non-response | 36 |
| Not important | 196 |
| Of little importance | 119 |
| Moderately important | 133 |
| Important | 174 |
| Very important | 320 |
| Not applicable | 55 |

Tree Farmer totals

| | n |
|----------------------|-----|
| non-response | 81 |
| Not important | 203 |
| Of little importance | 143 |
| Moderately important | 238 |
| Important | 255 |
| Very important | 474 |
| Not applicable | 80 |

National Woodland Owner Survey totals

| | n |
|----------------------|------|
| non-response | 355 |
| Not important | 780 |
| Of little importance | 446 |
| Moderately important | 899 |
| Important | 1256 |
| Very important | 2010 |
| Not applicable | 322 |

Effect size (Cohen's d) = -0.1028198 ; Level = negligible

Effect size 95% CI = -0.1688209 -0.03681862

Analysis: Chi square

X-squared = 62.3504

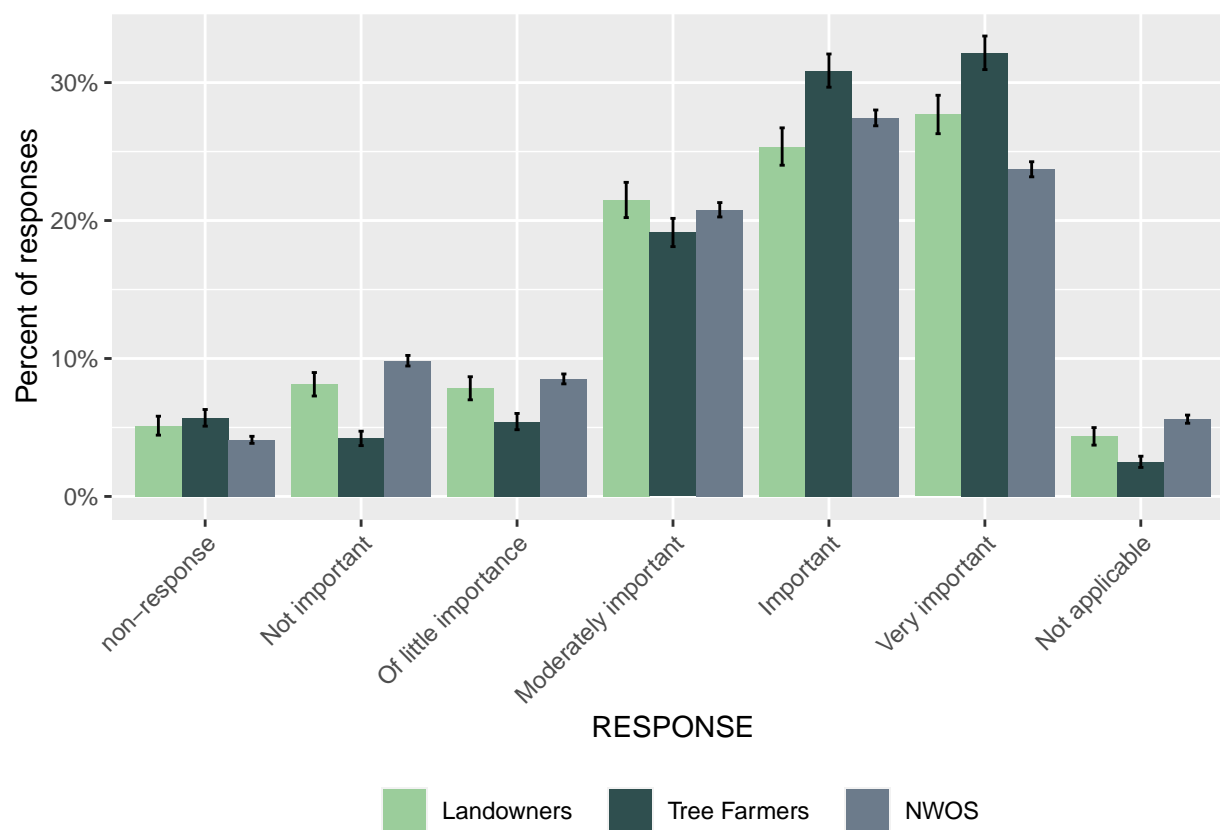
df = 6

p = 1.496973e-11

Adjusted p-value (correcting for all 14 tests, method = Holm): 2.095763e-10

OBJ_REC

How important are the following as reasons for why you currently own your wooded land? For recreation other than hunting



Landowner totals

| | n |
|----------------------|-----|
| non-response | 53 |
| Not important | 84 |
| Of little importance | 81 |
| Moderately important | 222 |
| Important | 262 |
| Very important | 286 |
| Not applicable | 45 |

Tree Farmer totals

| | n |
|----------------------|-----|
| non-response | 84 |
| Not important | 62 |
| Of little importance | 80 |
| Moderately important | 282 |
| Important | 455 |
| Very important | 474 |
| Not applicable | 37 |

National Woodland Owner Survey totals

| | n |
|----------------------|------|
| non-response | 249 |
| Not important | 597 |
| Of little importance | 517 |
| Moderately important | 1261 |
| Important | 1665 |
| Very important | 1439 |
| Not applicable | 340 |

Effect size (Cohen's d) = 0.02061999 ; Level = negligible

Effect size 95% CI = -0.04536037 0.08660035

Analysis: Chi square

X-squared = 15.23308

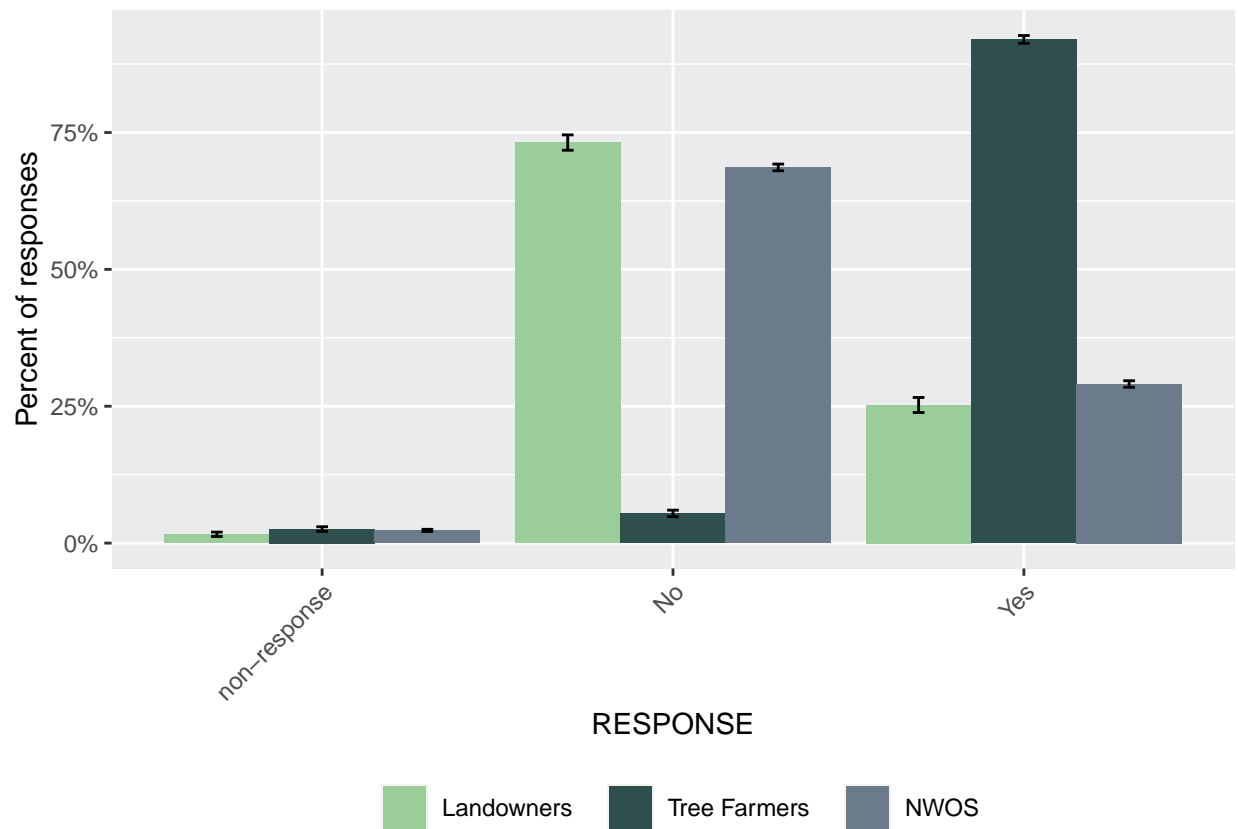
df = 6

p = 0.01851928

Adjusted p-value (correcting for all 14 tests, method = Holm): 0.25927

MGMT_PLAN

Do you have a written management plan for your wooded land?



Landowner totals

| | n |
|--------------|-----|
| non-response | 16 |
| No | 728 |
| Yes | 251 |
| NA's | 36 |

Tree Farmer totals

| | n |
|--------------|------|
| non-response | 37 |
| No | 78 |
| Yes | 1324 |
| NA's | 27 |

National Woodland Owner Survey totals

| | n |
|--------------|------|
| non-response | 135 |
| No | 4000 |
| Yes | 1694 |
| NA's | 239 |

Effect size (Cohen's d) = -0.06410935 ; Level = negligible

Effect size 95% CI = -0.1313593 0.003140551

Analysis: Chi square

X-squared = 9.345937

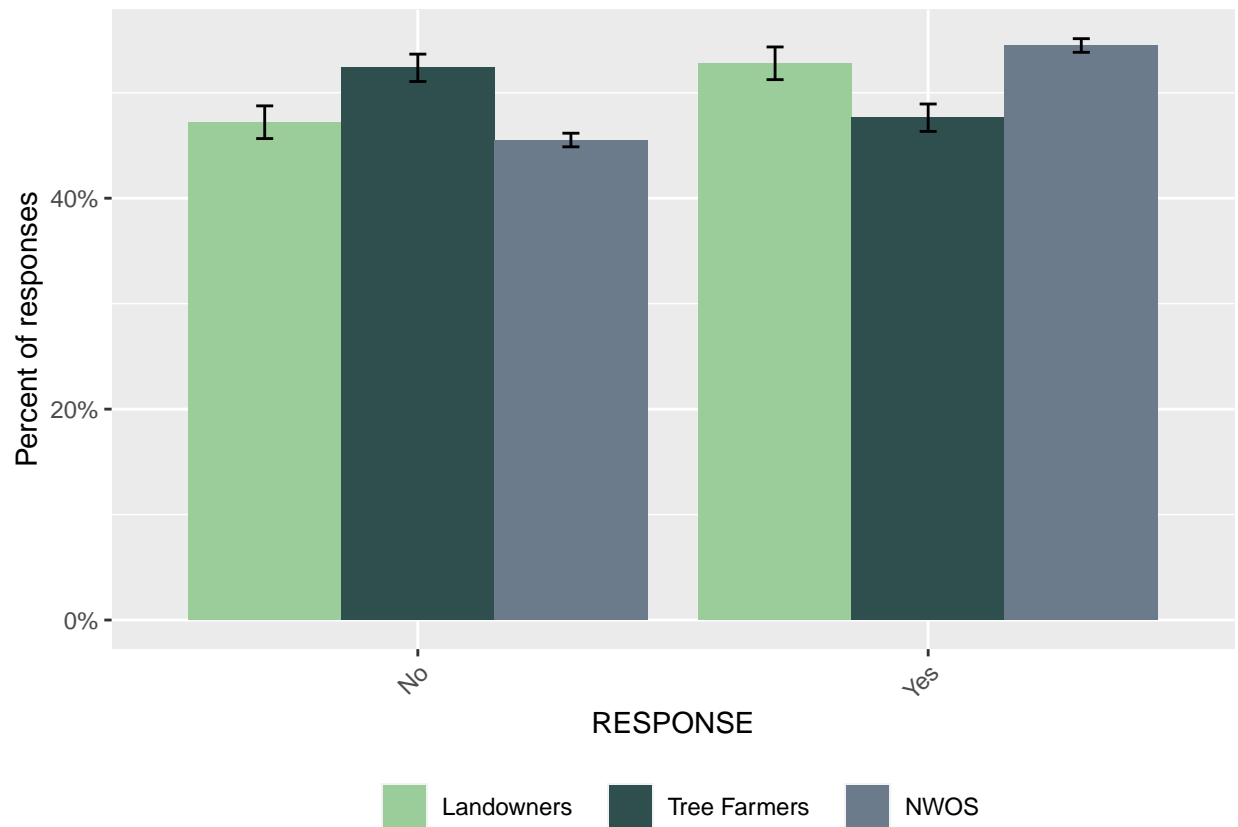
df = 3

p = 0.0250281

Adjusted p-value (correcting for all 14 tests, method = Holm): 0.3503934

HOME

Which, if any, of the following do you own within a mile of your wooded land? Home (primary residence)



Landowner totals

| | n |
|-----|-----|
| No | 490 |
| Yes | 548 |

Tree Farmer totals

| | n |
|-----|-----|
| No | 775 |
| Yes | 705 |

National Woodland Owner Survey totals

| | n |
|-----|------|
| No | 2706 |
| Yes | 3239 |

Effect size (Cohen's d) = -0.03389773 ; Level = negligible

Effect size 95% CI = -0.09984329 0.03204784

Analysis: Chi square

X-squared = 0.9486647

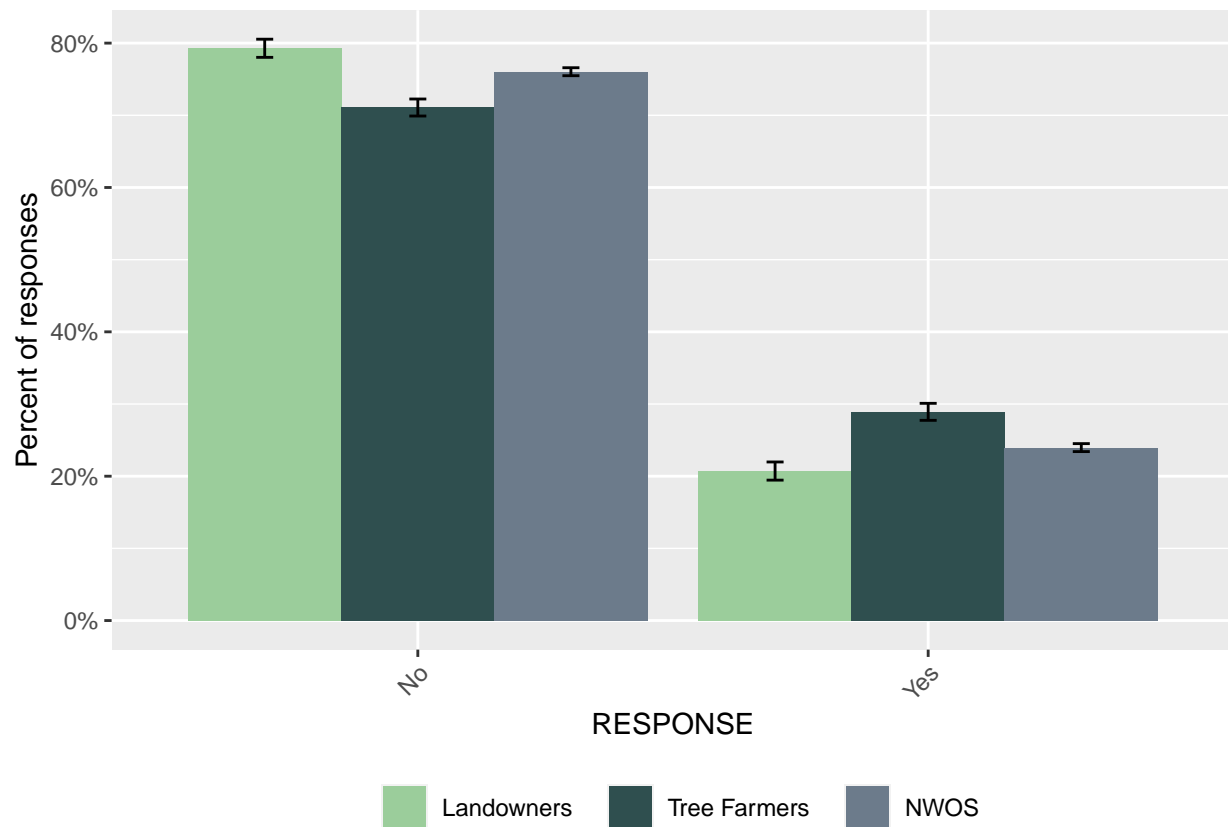
df = 1

$p = 0.3300594$

Adjusted p-value (correcting for all 14 tests, method = Holm): 1

CABIN

Which, if any, of the following do you own within a mile of your wooded land? Cabin or secondary residence



Landowner totals

| | n |
|-----|-----|
| No | 823 |
| Yes | 215 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1052 |
| Yes | 428 |

National Woodland Owner Survey totals

| | n |
|-----|------|
| No | 4519 |
| Yes | 1424 |

Effect size (Cohen's d) = -0.0766476 ; Level = negligible

Effect size 95% CI = -0.1426047 -0.01069052

Analysis: Chi square

X-squared = 5.009789

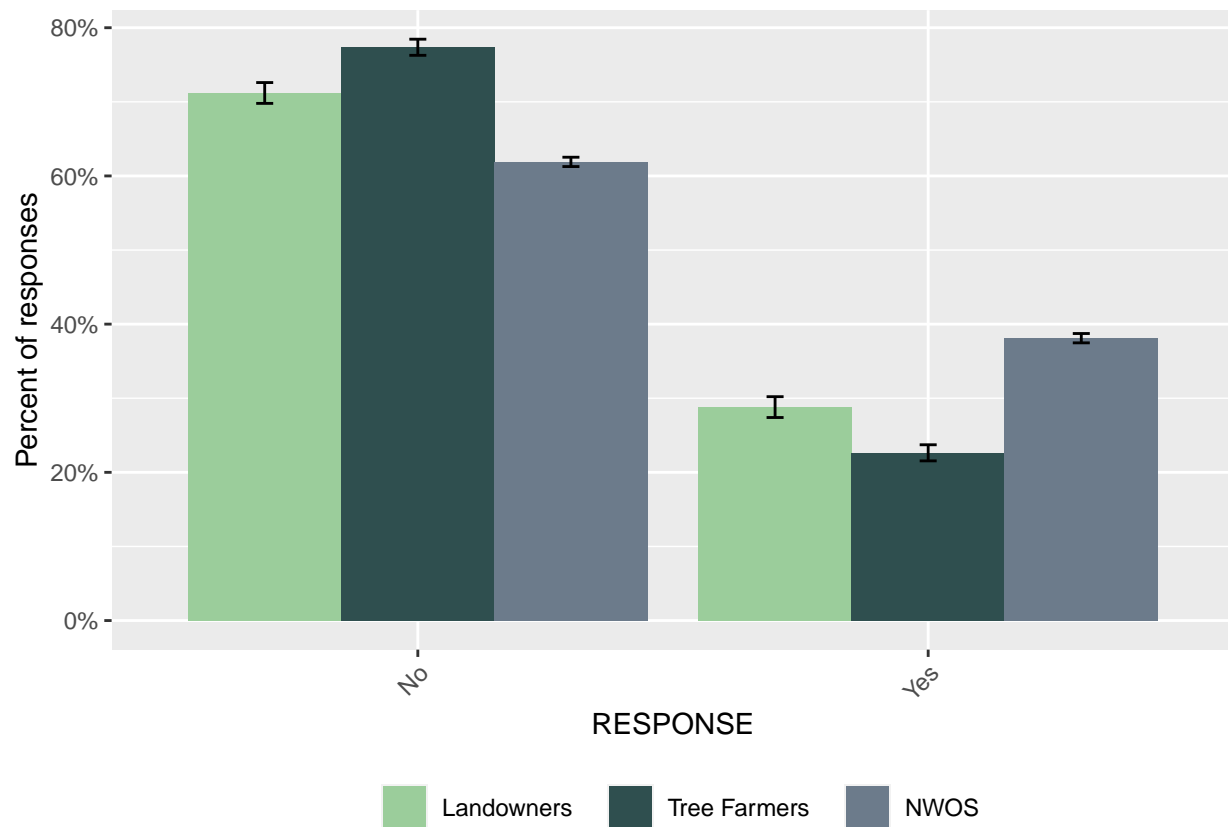
df = 1

$p = 0.02520437$

Adjusted p-value (correcting for all 14 tests, method = Holm): 0.3528612

FARM

Which, if any, of the following do you own within a mile of your wooded land? Farm or ranch



Landowner totals

| | n |
|-----|-----|
| No | 739 |
| Yes | 299 |

Tree Farmer totals

| | n |
|-----|------|
| No | 1145 |
| Yes | 335 |

National Woodland Owner Survey totals

| | n |
|-----|------|
| No | 3679 |
| Yes | 2265 |

Effect size (Cohen's d) = -0.1933598 ; Level = negligible

Effect size 95% CI = -0.2593818 -0.1273378

Analysis: Chi square

X-squared = 32.49389

df = 1

$p = 1.195677\text{e-}08$

Adjusted p-value (correcting for all 14 tests, method = Holm): $1.673948\text{e-}07$

General land characteristics

We are interested in learning about your wooded land and how you feel about it.

For this survey, wooded land includes:

- Woods, woodlots, timberland, and forests
- Land that has at least 10% forest cover
- Land that has had trees removed and where trees will grow again

Wooded land does not include:

- Christmas tree farms, orchards, or nurseries
- Land that is mowed for lawn

How many acres of wooded land do you currently own in $\{e://Field/PARCEL_STATE\}$?

Acres

Do you currently own more than one separate, unconnected property with wooded land in $\{e://Field/PARCEL_STATE\}$?

Yes

☐

No

☐

For this and all of the following questions, please answer for your largest property with wooded land in $\{e://Field/PARCEL_STATE\}$.

For this and all following questions, please answer for your wooded land in $\{e://Field/PARCEL_STATE\}$.

In what year did you, personally, first take ownership of your wooded land?

Year:

Which, if any, of the following do you own within a mile of your wooded land?

Select all that apply.

- ☐ Home (primary residence)
- ☐ Cabin or secondary residence
- ☐ Farm or ranch
- ☐ None of the above

How important are the following as reasons for why you currently own your wooded land?

Please check one box for each item.

[illegible]

| | Very important | Important | Moderately important | Of little importance | Not important | Not applicable |
|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| For privacy | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| For land investment | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| To protect or improve wildlife habitat | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Traditional forest engagement

Please indicate which, if any, of the following statements apply to you.

I have received advice about my wooded land **in the past 5 years**

Yes

☐

No

☐

I want to receive advice about my wooded land **in the next 5 years**

Yes

☐

No

☐

How have you received advice about your wooded land **in the past 5 years**? *Select all that apply.*

- ☐ Talked to someone
- ☐ Someone visited my land
- ☐ Received a brochure or other written material
- ☐ From the internet

- ☐ Email/E-newsletter
- ☐ Attended a conference or workshop
- ☐ Other (please specify)

A management or stewardship plan may be written in order to help a landowner meet their goals for their wooded land.

Do you have a written management plan for your wooded land?

- ☐ Yes
- ☐ No
- ☐ I don't know

Do you plan to update your written management plan in the future?

- ☐ Yes
- ☐ No

Would you consider having a written stewardship or management plan in the future?

- ☐ Yes
- ☐ No

Which, if any, of the following activities have occurred **on your wooded land since you have owned it?**

Select all that apply.

- ☐ Cut trees for sale
- ☐ Cut trees **not** for sale
- ☐ Cut brush
- ☐ Reduced or removed invasive plants
- ☐ Planted trees
- ☐ Used herbicides
- ☐ Used prescribed fire
- ☐ None of the above

Which, if any, of the following activities will likely occur **on your wooded land in the next 5 years?**

Select all that apply.

- ☐ Cutting trees for sale
- ☐ Cutting trees **not** for sale
- ☐ Cutting brush
- ☐ Reducing or removing invasive plants
- ☐ Planting trees
- ☐ Using herbicides
- ☐ Using prescribed fire
- ☐ None of the above

In the next section, we will ask you questions about certain management activities on your wooded land.

Which of the following statements best describes your thoughts about **cutting trees from your wooded land for sale** in the future?

- ☐ I am planning to cut trees from my wooded land for sale
- ☐ I am not planning to cut trees from my wooded land for sale
- ☐ I have not decided whether or not to cut trees from my wooded land for sale
- ☐ I have never considered whether to cut trees from my wooded land for sale

Which, if any, of the following do you see as potential **benefits** from cutting trees from your wooded land for sale?

Select all that apply.

Cutting trees from my wooded land for sale...

- ☐ Will likely improve wildlife habitat
- ☐ Will likely increase the future timber quality
- ☐ Will likely earn money for me
- ☐ Will likely further my goals for my wooded land
- ☐ None of the above

Which, if any, of the following do you see as potential **challenges** to cutting trees from your wooded land for sale?

Select all that apply.

- ☐ Cutting trees for sale will likely damage my wooded land
- ☐ Cutting trees for sale will likely look ugly

- ☐ My neighbors would dislike it if I cut trees for sale
- ☐ It is difficult to find a logger I trust
- ☐ I don't have enough information about cutting trees for sale
- ☐ Cutting trees does not further my goals for my wooded land
- ☐ None of the above

Harvest intensity

The pictures below show a range of cutting intensities. Which of these would you be willing to accept on some part of your land, with the understanding that new trees will grow back after the cutting?

Select all that apply.

- ☐ No cutting



- ☐ Cutting a few trees per acre



☐ Cutting many trees per acre



☐ Cutting many trees per acre, clustered together



☐ Cutting most trees per acre



☐ Cutting all trees per acre



TTM planting

Which of the following statements best describes your thoughts about **planting trees on your wooded land** in the future?

- ☐ I am planning to plant trees on my wooded land
- ☐ I am not planning to plant trees on my wooded land
- ☐ I have not decided whether or not to plant trees on my wooded land
- ☐ I have never considered whether to plant trees on my wooded land

Which, if any, of the following do you see as potential **benefits** from planting trees on your wooded land?

Select all that apply.

Planting trees on my wooded land...

- ☐ Will likely improve wildlife habitat
- ☐ Will likely increase future timber quality
- ☐ Will likely further my goals for my wooded land
- ☐ None of the above

Which, if any, of the following do you see as potential **challenges** to planting trees on your wooded land?

Select all that apply.

- ☐ Planted trees on my wooded land are at risk from deer browse
- ☐ Planted trees on my wooded land are at risk from insects and disease
- ☐ Planting trees on my wooded land will likely require a lot of my time
- ☐ Planting trees on my wooded land is expensive
- ☐ It is difficult to get seedlings
- ☐ I don't have enough information about planting trees on my wooded land
- ☐ I don't need to plant trees on my wooded land
- ☐ None of the above

TTM herbicides

Herbicides, or chemicals used to control unwanted plants, can be used as a management tool on wooded land.

Which of the following statements best describes your thoughts about using herbicides on your wooded land in the future?

- ☐ I am planning to use herbicides on my wooded land
- ☐ I am not planning to use herbicides on my wooded land
- ☐ I have not decided whether or not to use herbicides on my wooded land
- ☐ I have never considered whether to use herbicides on my wooded land

Which, if any, of the following do you see as potential **benefits** from using herbicides on your wooded land?

Select all that apply.

Using herbicides on my wooded land...

- ☐ Will likely improve wildlife habitat

- ☐ Will likely increase future timber quality
- ☐ Will likely reduce invasive plants
- ☐ Will likely encourage plants I want to grow
- ☐ Will likely further my goals for my wooded land
- ☐ None of the above

Which, if any, of the following do you see as potential **challenges** to using herbicides on your wooded land?

Select all that apply.

- ☐ Herbicides will likely damage my wooded land
- ☐ Using herbicides on my wooded land will likely damage wetlands or wet areas
- ☐ My neighbors would dislike it if I used herbicides on my wooded land
- ☐ Using herbicides on my wooded land is expensive
- ☐ Using herbicides on my wooded land will likely damage plants I want
- ☐ I don't have enough information about herbicides on my wooded land
- ☐ I don't need to use herbicides on my wooded land
- ☐ None of the above

TTM fire

Prescribed fire is intentionally burning land in a controlled manner to achieve management objectives on wooded land.

Which of the following statements best describes your thoughts about using **prescribed fire on your wooded land** in the future?

- ☐ I am planning to use prescribed fire on my wooded land
- ☐ I am not planning to use prescribed fire on my wooded land

- ☐ I have not decided whether or not to use prescribed fire on my wooded land
- ☐ I have never considered whether to use prescribed fire on my wooded land

Which, if any, of the following do you see as potential **benefits** from using prescribed fire on your wooded land?

Select all that apply.

Using prescribed fire on my wooded land...

- ☐ Will likely improve wildlife habitat
- ☐ Will likely promote trees I want
- ☐ Will likely reduce unwanted plants
- ☐ Will likely further my goals for my wooded land
- ☐ None of the above

Which, if any, of the following do you see as potential **challenges** to using prescribed fire on your wooded land?

Select all that apply.

- ☐ Prescribed fire on my wooded land can be risky or dangerous
- ☐ Prescribed fire can damage plants I want
- ☐ My neighbors would dislike it if I used prescribed fire on my wooded land
- ☐ Prescribed fire is expensive
- ☐ I don't have enough information about prescribed fire
- ☐ I don't need to use prescribed fire on my wooded land
- ☐ None of the above

Tree ID & Feelings on Oaks

These questions are about your thoughts on oak trees.

How common are oak trees on your wooded land?

Extremely common Very common Somewhat common Uncommon No oak trees I don't know

☐ ☐ ☐ ☐ ☐ ☐

Would you like more oak trees on your land?

Yes Neutral No

☐ ☐ ☐

Upland woods are any wooded areas that are not by a river bottom or in a wetland.

What is your level of agreement or disagreement with the following statements?

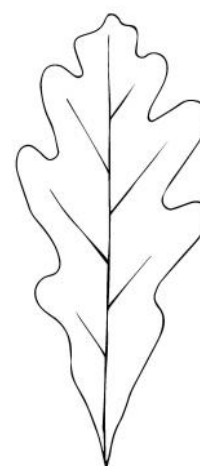
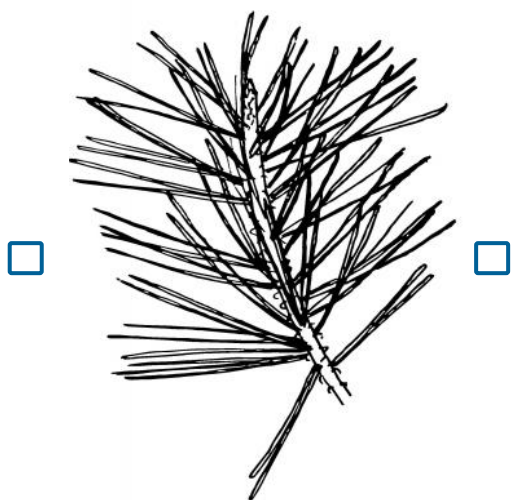
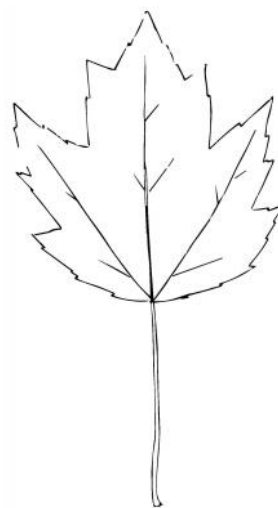
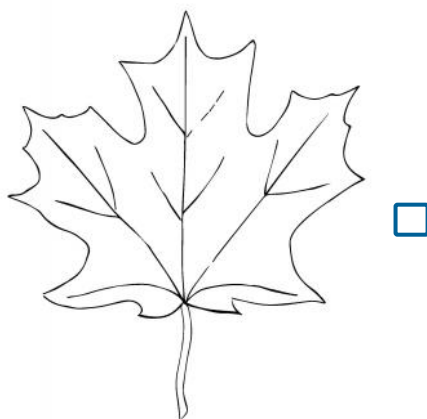
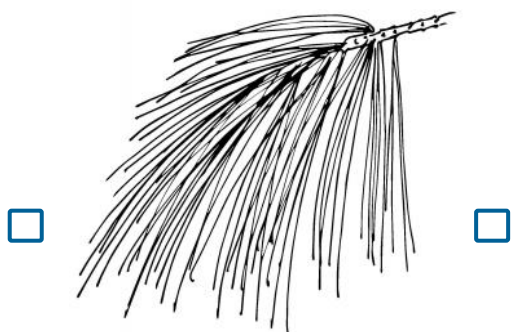
I think upland woods dominated by oak trees...

[illegible]

| | Strongly agree | Agree | Neither agree nor disagree | Disagree | Strongly disagree | I don't know |
|---|--------------------------|--------------------------|----------------------------|--------------------------|--------------------------|--------------------------|
| Provide good recreational opportunities | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Are vulnerable to insects and disease | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Are prone to wildfire | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Are at risk of declining | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

The following questions are about your familiarity with oak trees.

Please select the oak leaves by clicking on them. *Select all that apply.*



Willingness to Accept - longform

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Would be you interested in participating in this hypothetical program?

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Each survey participant has been assigned a random scenario. Please read the hypothetical scenario below and answer the questions that follow.

You have learned about a new program in your area to help landowners promote good stewardship on their land. A local wildlife and forestry organization will send a professional to visit your land and, if it is a good fit, will help plan and cut small trees and shrubs on part of your land. The cutting will be focused on supporting the growth of a healthy and resilient forest through promoting oak trees. There will be no herbicide treatments with the cutting. The organization will not provide financial support, so there will be a one-time net cost to you of \$1,500 per acre to participate in this program.

Would be you interested in participating in this hypothetical program?

Yes

☐

No

☐

Each survey participant has been assigned a random scenario. Please read the hypothetical scenario below and answer the questions that follow.

You have learned about a new program in your area to help landowners promote good stewardship on their land. A local wildlife and forestry organization will send a professional to visit your land and, if it is a good fit, will help plan and cut small trees and shrubs on part of your land. The cutting will be focused on supporting the growth of a healthy and resilient forest through promoting oak trees. There will be no herbicide treatments with the cutting. The organization will not provide financial support, so there will be a one-time net cost to you of \$500 per acre to participate in this program.

Would be you interested in participating in this hypothetical program?

Yes

☐

No

☐

Each survey participant has been assigned a random scenario. Please read the hypothetical scenario below and answer the questions that follow.

You have learned about a new program in your area to help landowners promote good stewardship on their land. A local wildlife and forestry organization will send a professional to visit your land and, if it is a good fit, will help plan and cut small trees and shrubs on part of your land. The cutting will be focused on supporting the growth of a healthy and resilient forest through promoting oak trees. There will be no herbicide treatments with the cutting. The organization will not provide financial support, so there will be a one-time net cost to you of \$100 per acre to participate in this program.

Would be you interested in participating in this hypothetical program?

Yes

☐

No

☐

How certain are you of your response to the question above?

Completely certain

☐

Certain

☐

Moderately certain

☐

Somewhat certain

☐

Not at all certain

☐

Organizations and Demography

About you

The following information about you will provide us with a better understanding of general landowner traits.

Are you a member of any of the following wildlife, forestry, or conservation organizations?

Select all that apply.

- ☐ The Nature Conservancy
- ☐ Ducks Unlimited
- ☐ National Woodland Owners Association
- ☐ Forest Landowners Association
- ☐ National Wild Turkey Federation
- ☐ American Forests

- ☐ American Tree Farm
- ☐ Local wildlife, forestry, or conservation organization
- ☐ Other (please specify)
- ☐ None of the above

Which, if any, of the following organizations would you be interested in cooperating with to manage your wooded land in the future?

Select all that apply.

- ☐ Federal government forestry or wildlife agency, like those within USDA
- ☐ \${e://Field/PARCEL_STATE} government forestry or wildlife agency
- ☐ Local government forestry or wildlife agency
- ☐ Private, consulting forestry or wildlife professionals
- ☐ Local hunting and fishing group
- ☐ University or extension department
- ☐ Non-governmental forestry or wildlife organization
- ☐ Forest products companies
- ☐ None of the above

How much, if at all, would you describe yourself in the following ways?

| | Extremely | Very | Moderately | Slightly | Not at all |
|------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Environmentalist | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Timber grower | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Conservationist | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Birder | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Wildlife viewer | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Hunter | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

What is your household's annual income?

- ☐ Less than \$25,000
- ☐ \$25,000 - \$49,999
- ☐ \$50,000 - \$99,999
- ☐ \$100,000 - \$199,999
- ☐ \$200,000 or more

What is the highest level of school you have completed?

- ☐ Less than high school diploma
- ☐ High school / GED
- ☐ Some college
- ☐ Associate's degree
- ☐ Bachelor's degree
- ☐ Advanced/Graduate degree

What is your age?

What is your gender?

If there are any additional comments or concerns that you would like to share, please write them below.

If you would like the results of this survey sent to you, please enter your email address below.
Your email address will only be used to share the results of the survey with you.

Supplementary Table 1. Respondents' barriers and challenges to planning to conduct management activities on their wooded land – Logistic regression results.

a. Cutting trees for sale – Landowners

| | Odds Ratio | 95% conf int | z value | Pr(> z) |
|---------------------|------------|----------------------|---------|--------------|
| (Intercept) | 0.11509235 | 0.07876443-0.1650393 | -11.468 | < 2e-16 *** |
| For wildlife | 1.55313520 | 1.14237978-2.1080275 | 2.819 | 0.00482 ** |
| For future timber | 2.44115003 | 1.74972404-3.4238562 | 5.217 | 1.82e-07 *** |
| Earn money | 3.23709990 | 2.29894192-4.5957510 | 6.655 | 2.83e-11 *** |
| For goals | 3.08662522 | 2.29649505-4.1573570 | 7.449 | 9.41e-14 *** |
| Damage woodland | 0.60012170 | 0.41557075-0.8619939 | -2.746 | 0.00603 ** |
| Looks ugly | 0.69411398 | 0.49207762-0.9764777 | -2.090 | 0.03660 * |
| Neighbors dislike | 1.17027305 | 0.52232734-2.5305947 | 0.392 | 0.69486 |
| Hard to find logger | 1.18352940 | 0.86706951-1.6162673 | 1.061 | 0.28849 |
| Not enough info | 0.24469878 | 0.16855180-0.3503651 | -7.551 | 4.34e-14 *** |
| Not for goals | 0.05711737 | 0.02194836-0.1222622 | -6.647 | 3.00e-11 *** |

b. Planting trees – Landowners

| | Odds Ratio | 95% Conf. int. | z value | Pr(> z) |
|-------------------|------------|---------------------|---------|--------------|
| (Intercept) | 0.2462236 | 0.1811585-0.3321919 | -9.067 | < 2e-16 *** |
| For wildlife | 0.8393152 | 0.6268063-1.1220403 | -1.180 | 0.2380 |
| For future timber | 2.3976915 | 1.8318811-3.1470310 | 6.339 | 2.32e-10 *** |
| Further goals | 1.9482910 | 1.4845456-2.5618131 | 4.795 | 1.63e-06 *** |
| Deer browse | 1.3654176 | 1.0461628-1.7813123 | 2.295 | 0.0217 * |
| Insects/disease | 0.9324749 | 0.6856727-1.2630939 | -0.449 | 0.6535 |
| Require time | 0.8526610 | 0.6376800-1.1360287 | -1.083 | 0.2789 |
| Expensive | 1.3394132 | 1.0002533-1.7926060 | 1.965 | 0.0494 * |
| Get seedlings | 0.6080718 | 0.3664656-0.9835097 | -1.982 | 0.0475 * |
| Not enough info | 0.4424106 | 0.3268720-0.5938685 | -5.358 | 8.39e-08 *** |
| No need | 1.0840797 | 0.8083206-1.4539847 | 0.539 | 0.5896 |

c. Using herbicides – Landowners

| | Odds Ratio | 95% Conf. int. | z value | Pr(> z) |
|-------------------|------------|----------------------|---------|--------------|
| (Intercept) | 0.14875378 | 0.08764128-0.2405740 | -7.426 | 1.12e-13 *** |
| For wildlife | 3.79023810 | 2.26262958-6.4314688 | 5.008 | 5.49e-07 *** |
| For future timber | 0.70185395 | 0.42449543-1.1476941 | -1.398 | 0.16226 |
| Reduce invasives | 6.63822342 | 3.87843734-1.8066753 | 6.687 | 2.27e-11 *** |
| Plants I want | 1.77252399 | 1.13456584-2.7671755 | 2.520 | 0.01173 * |
| Further goals | 2.87782122 | 1.81048257-4.6002730 | 4.450 | 8.59e-06 *** |
| Damage woodland | 0.25921308 | 0.09684544-0.6172358 | -2.880 | 0.00398 ** |
| Damage wetland | 0.28557155 | 0.16774511-0.4738359 | -4.742 | 2.12e-06 *** |
| Neighbors dislike | 0.50272776 | 0.08893599-2.1671961 | -0.854 | 0.39290 |
| Expensive | 1.14981439 | 0.77657087-1.7006046 | 0.699 | 0.48459 |
| Damage plants | 0.55202443 | 0.31742488-0.9459890 | -2.137 | 0.03257 * |
| Not enough info | 0.06975182 | 0.04303034-0.1096623 | -11.179 | < 2e-16 *** |
| No need | 0.04833934 | 0.01881358-0.1066649 | -6.924 | 4.39e-12 *** |

d. Using prescribed fire – Landowners

| | Odds Ratio | 95% Conf. int | z value | Pr(> z) |
|------------------------|------------|------------------------|---------|--------------|
| (Intercept) | 0.03357585 | 0.01508572-0.06695304 | -8.977 | < 2e-16 *** |
| For wildlife | 5.00132964 | 2.53903556-10.11866165 | 4.583 | 4.59e-06 *** |
| Promote trees | 0.62665136 | 0.31513705-1.22135171 | -1.356 | 0.175255 |
| Reduce unwanted plants | 4.40711470 | 2.03273814-10.11650436 | 3.651 | 0.000262 *** |
| Further goals | 7.44285765 | 3.73114749-15.36912320 | 5.569 | 2.56e-08 *** |
| Risky/dangerous | 0.44755501 | 0.24864833-0.80000482 | -2.705 | 0.006830 ** |
| Damage wanted plants | 0.63154024 | 0.34642678-1.12930745 | -1.529 | 0.126370 |
| Neighbors dislike | 0.42133987 | 0.18030577-0.91133710 | -2.107 | 0.035115 * |
| Expensive | 0.46506524 | 0.19853996-1.02472609 | -1.840 | 0.065759 . |
| Not enough info | 0.09300402 | 0.04077499-0.18960827 | -6.116 | 9.62e-10 *** |
| No need | 0.08435373 | 0.01318220-0.29820909 | -3.267 | 0.001088 ** |

e. Cutting trees for sale – Tree Farmers

| | Odds Ratio | 95% Conf. int. | z value | Pr(> z) |
|---------------------|------------|---------------------|---------|--------------|
| (Intercept) | 0.34724023 | 0.2327726-0.5146212 | -5.232 | 1.68e-07 *** |
| For wildlife | 1.28779689 | 0.9254428-1.7833214 | 1.513 | 0.13033 |
| For future timber | 1.55379182 | 1.0666566-2.2565261 | 2.308 | 0.02102 * |
| Earn money | 4.80018644 | 3.5254212-6.5548036 | 9.922 | < 2e-16 *** |
| Further goals | 2.77352633 | 2.0105892-3.8272950 | 6.217 | 5.06e-10 *** |
| Damage woodland | 0.38046870 | 0.2569240-0.5629184 | -4.835 | 1.33e-06 *** |
| Look ugly | 0.75864618 | 0.5307222-1.0902927 | -1.506 | 0.13219 |
| Neighbors dislike | 0.93850095 | 0.4204312-2.2310616 | -0.150 | 0.88092 |
| Hard to find logger | 1.53949542 | 1.0686471-2.2433928 | 2.283 | 0.02242 * |
| Not enough info | 0.46374501 | 0.2787333-0.7748675 | -2.952 | 0.00316 ** |
| Not further goals | 0.04834377 | 0.0180592-0.1080480 | -6.751 | 1.47e-11 *** |

f. Planting trees – Tree Farmers

| | Odds Ratio | 95% Conf. int. | z value | Pr(> z) |
|-------------------|------------|---------------------|---------|--------------|
| (Intercept) | 1.7252688 | 1.2377433-2.4117845 | 3.208 | 0.001338 ** |
| For wildlife | 0.6894104 | 0.5091560-0.9289399 | -2.426 | 0.015253 * |
| For future timber | 2.2257381 | 1.6650424-2.9813029 | 5.388 | 7.14e-08 *** |
| Further goals | 1.3634179 | 0.9957534-1.8656829 | 1.937 | 0.052768 . |
| Deer browse | 0.6067595 | 0.4637088-0.7928755 | -3.653 | 0.000259 *** |
| Insects/disease | 1.0864385 | 0.7997690-1.4819917 | 0.527 | 0.597970 |
| Require time | 1.0167013 | 0.7538903-1.3751728 | 0.108 | 0.913912 |
| Expensive | 1.7397514 | 1.2900885-2.3614023 | 3.594 | 0.000326 *** |
| Get seedlings | 0.8046529 | 0.4668102-1.4243141 | -0.767 | 0.443073 |
| Not enough info | 0.5156270 | 0.3387485-0.7894983 | -3.076 | 0.002100 ** |
| No need | 1.0809614 | 0.7860001-1.4916923 | 0.477 | 0.633601 |

g. Using herbicides – Tree Farmers

| | Odds Ratio | 95% Conf. int. | z value | Pr(> z) |
|--------------|------------|-----------------------|---------|--------------|
| (Intercept) | 0.30624108 | 0.18627497-0.48956146 | -4.815 | 1.47e-06 *** |
| For wildlife | 2.48105602 | 1.55849103-3.99075316 | 3.796 | 0.000147 *** |

| | | | | |
|-------------------|-------------|-----------------------|--------|--------------|
| For future timber | 1.51178448 | 0.97411279-2.34206434 | 1.849 | 0.064409 . |
| Reduce invasives | 5.11344237 | 3.08690156-8.64768735 | 6.224 | 4.86e-10 *** |
| Encourage plants | 1.35582694 | 0.88818696-2.06060385 | 1.420 | 0.155675 |
| Further goals | 3.24807695 | 2.11649447-5.01222423 | 5.363 | 8.18e-08 *** |
| Damage woodland | 0.58744685 | 0.26562746-1.27990833 | -1.329 | 0.183951 |
| Damage wetland | 0.23010349 | 0.13890130-0.37608933 | -5.791 | 7.01e-09 *** |
| Neighbors dislike | 0.32406707 | 0.12172574-0.84040317 | -2.290 | 0.022046 * |
| Expensive | 0.97214674 | 0.65996660-1.43098290 | -0.143 | 0.886070 |
| Damage plants | 0.94641136 | 0.53475152-1.70072212 | -0.187 | 0.851715 |
| Not enough info | 0.08321232 | 0.04810240-0.13949206 | -9.177 | < 2e-16 *** |
| No need | -0.03722305 | 0.01443719-0.08274225 | -7.476 | 7.69e-14 *** |

h. Using prescribed fire – Tree Farmers

| | Odds Ratio | 95% Conf. int. | z value | Pr(> z) |
|------------------------|------------|-------------------------|---------|--------------|
| (Intercept) | 0.08875234 | 0.049569005-0.15029604 | -8.586 | < 2e-16 *** |
| For wildlife | 4.14177766 | 2.228868303-7.82210660 | 4.451 | 8.55e-06 *** |
| Promote trees | 2.11117358 | 1.202379937-3.68291707 | 2.623 | 0.00872 ** |
| Reduce unwanted plants | 1.67408356 | 0.859791901-3.24965762 | 1.524 | 0.12756 |
| Further goals | 7.07157405 | 3.983726799-12.82297946 | 6.577 | 4.81e-11 *** |
| Risky/dangerous | 0.33519820 | 0.211980316-0.52176960 | 4.767 | 1.87e-06 *** |
| Damage wanted plants | 1.03109974 | 0.652913646-1.63277489 | 0.131 | 0.89565 |
| Neighbors dislike | 0.24202793 | 0.122611820-0.46820502 | -4.164 | 3.12e-05 *** |
| Expensive | 1.13784562 | 0.691827019-1.88407953 | 0.506 | 0.61283 |
| Not enough info | 0.03703241 | 0.013621677-0.08431845 | -7.197 | 6.18e-13 *** |
| No need | 0.03893878 | 0.009092918-0.11367655 | -5.208 | 1.91e-07 *** |

Signif. codes: '***' 0.001

'**' 0.01

'*' 0.05

'.' 0.1

Supplementary Table 2. Respondents' willingness to participate in a hypothetical program to manage for oak trees – Logistic regression results.

Landowners

| | Estimate | Std. Error | z value | Pr(> z) |
|-----------------------|------------|------------|---------|--------------|
| (Intercept) | -0.9020397 | 0.2353537 | -3.833 | 0.000127 *** |
| Theme - wildlife | 0.2215126 | 0.2193723 | 1.010 | 0.312612 |
| Theme - wood products | -0.3344175 | 0.2282697 | -1.465 | 0.142918 |
| Theme - stewardship | 0.0354834 | 0.2257267 | 0.157 | 0.875090 |
| Cost-share | 0.6771567 | 0.1627594 | 4.160 | 3.18e-05 *** |
| Cut - harvest only | 0.0346150 | 0.2252477 | 0.154 | 0.877866 |
| Cut – brush only | -0.1211639 | 0.1890530 | -0.641 | 0.521588 |
| Price (per dollar) | 0.0009107 | 0.0001080 | 8.435 | < 2e-16 *** |

Tree Farmers

| | Estimate | Std. Error | z value | Pr(> z) |
|-----------------------|------------|------------|---------|--------------|
| (Intercept) | -0.6455518 | 0.1836430 | -3.515 | 0.000439 *** |
| Theme - wildlife | 0.2856534 | 0.1719456 | 1.661 | 0.096653 . |
| Theme - wood products | -0.0023283 | 0.1766495 | -0.013 | 0.989484 |
| Theme - stewardship | 0.0571978 | 0.1747715 | 0.327 | 0.743462 |
| Cost-share | 0.6328458 | 0.1279279 | 4.947 | 7.54e-07 *** |
| Cut – harvest only | 0.2050243 | 0.1772522 | 1.157 | 0.247403 |
| Cut – brush only | -0.0651248 | 0.1518114 | -0.429 | 0.667934 |
| Price (per dollar) | 0.0008899 | 0.0000876 | 10.159 | < 2e-16 *** |

Significance codes: '***' 0.001

'**' 0.01

'*' 0.05

'.' 0.1

' ' 1