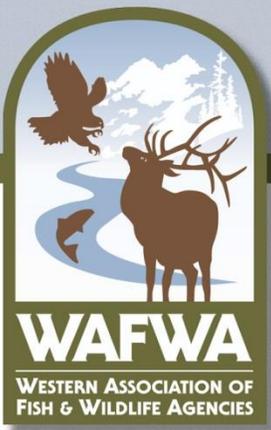


America's Wildlife Values

Michigan State Report



Responsive Management



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Executive Summary

The information contained in this summary highlights findings from a survey of residents living in the state of Michigan as part of the project entitled “America’s Wildlife Values: Understanding Trends in Public Values toward Wildlife as a Key to Meeting Current and Future Wildlife Management Challenges.” This multi-state project sought to explore the values, attitudes, and beliefs of residents across the U.S. in relation to fish and wildlife management. Such information can help agency decision-makers to understand more about the public’s interest in fish and wildlife-related issues and their perspectives on management of the state’s fish and wildlife.

Specific findings from this report include:

- In total, Michigan received 553 responses to the survey. Of those responses, 213 were from mail surveys (8% response rate) and 340 were from web-based panels.
- The breakdown of wildlife value orientations in your state is as follows¹.
 - Traditionalist: **34%**
 - Mutualist: **29%**
 - Pluralist: **23%**
 - Distanced: **14%**
- Nearly **63%** of respondents reported feeling that they share many of the same values as your state fish and wildlife agency regarding the management of fish and wildlife.
- Survey respondents held the following beliefs about funding for your state fish and wildlife agency:
 - **12%** view current funding as primarily coming from hunting and fishing license sales.
 - **15%** of respondents believe this should be the funding model used in the future.
 - **82%** view current funding as coming from a mix of hunting and fishing license sales and public tax dollars.
 - **80%** of respondents believe this should be the funding model used in the future.
 - **6%** view current funding as primarily coming from public tax dollars.
 - **6%** of respondents believe this should be the funding model used in the future.
- A majority of respondents (**58%**) expressed trust in your agency to do what is right for fish and wildlife in the state.

Additional information on each of these findings and more can be found within this report. Detailed frequencies for each survey item by wildlife value orientations and by current participation in hunting and fishing during the 12 months prior to respondents taking the survey are also included in the report. Information about the comparison of your state to other states and information about trends in your state can be found separately in the *Multistate Report on Wildlife Values in America*, to be available October 2018.

¹ For definitions of these terms, see page 1 of the attached report.

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Wildlife Value Orientations

Wildlife value orientations represent the different overarching themes in a person's patterns of thought about wildlife, and can be used to identify different "types" of people (Bright et al., 2000). Characterizing segments of the public in this manner allows for a better understanding of the diversity of publics that exists as well as anticipation of how different groups of people will respond to proposed management strategies and programs.

These orientation types are calculated based on responses to a variety of survey items that represent four belief dimensions: (1) social affiliation and (2) caring, which form the mutualism orientation, and (3) hunting and (4) use of wildlife, which form the domination orientation. Means for all items within the mutualist and domination orientation are computed and respondents are segmented into one of four value orientation types by comparing their scores on domination and mutualism simultaneously (high scores were defined as > 4.50 whereas low was defined by a score of ≤ 4.50). For more information on the calculation of wildlife value orientations, see Teel & Manfredro (2009).

When applied to people as a classification,

Traditionalists:

- Score high on the domination orientation and low on the mutualism orientation
- Believe wildlife should be used and managed for human benefit

Mutualists:

- Score high on the mutualism orientation and low on the domination orientation
- Believe wildlife are part of our social network and that we should live in harmony

Pluralists:

- Score high on both the domination and mutualism orientations
- Prioritize these values differently depending on the specific context

Distanced individuals:

- Score low on both the domination and mutualism orientations
- Often believe that wildlife-related issues are less salient to them

Below is a detailed account of wildlife value orientation types in your state using our measurements (available in Appendix B to this report). Throughout this report, responses to additional items such as attitudes, trust, and participation in wildlife-related recreation will be explored by your state's current wildlife value orientation types to give you a feel for how these value types differ in their views on fish and wildlife management.²

² We also measured respondents' views on three additional scales: 1) social values including whether they hold materialist (e.g., emphasizing the need for physical and economic security) or post-materialist (e.g., emphasizing social affiliation needs) values; 2) the extent to which they anthropomorphized animals (i.e., attributed human traits to animals); and 3) the degree to which they perceived other people in their state as ascribing to a strict set of social norms (i.e., respect of socially agreed-upon practices). These data will be explored across states in relation to wildlife value orientations in our Multistate Report.

Figure 1: Wildlife value orientations in your state

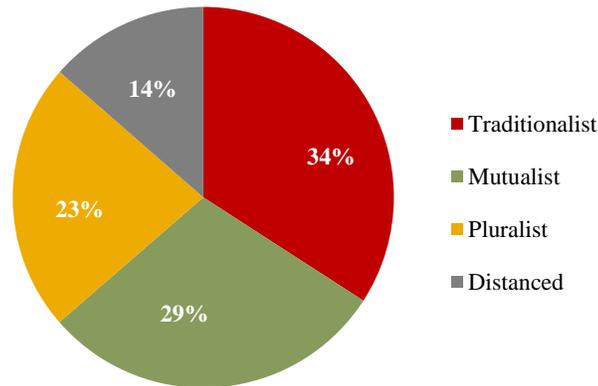


Figure 2: Percent of each wildlife value orientation type who are current hunters/anglers

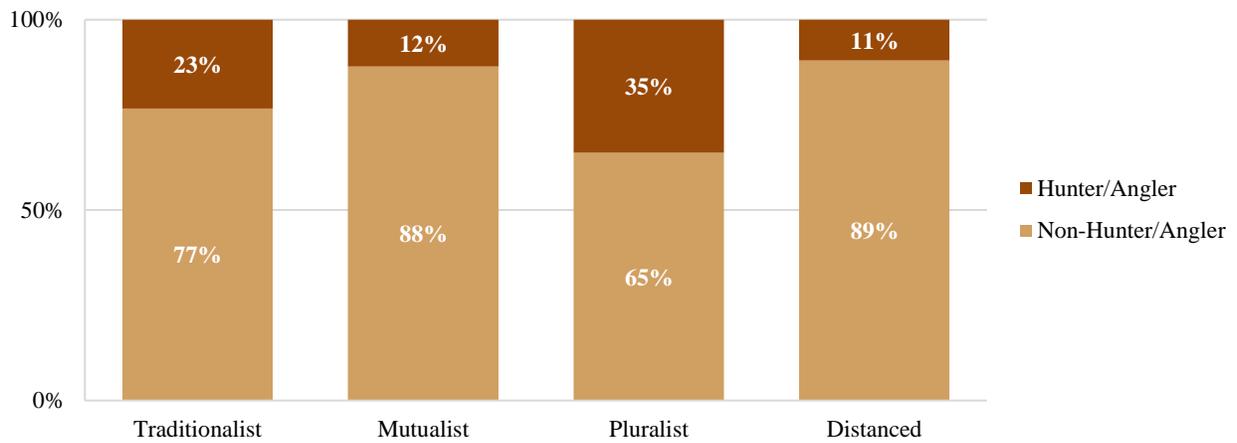


Figure 3: Wildlife value orientations by gender

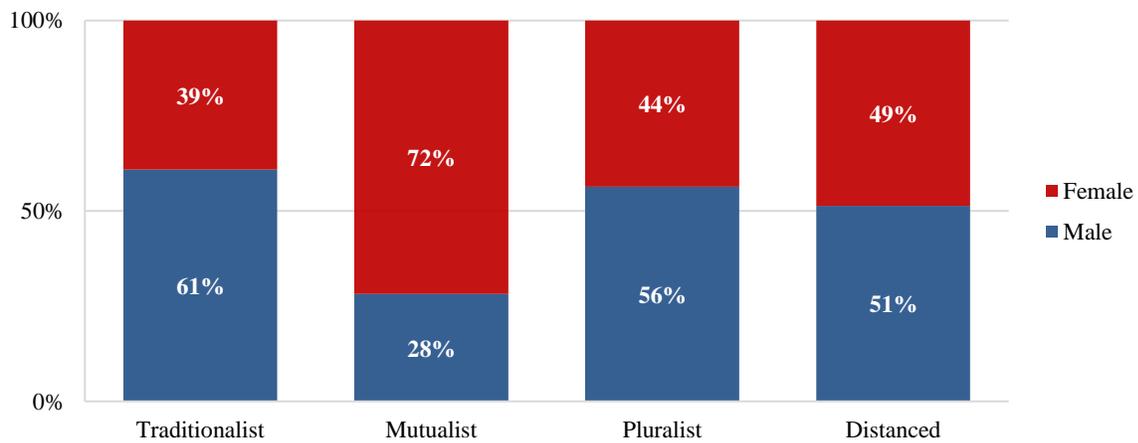


Figure 4: Wildlife value orientations by age groups

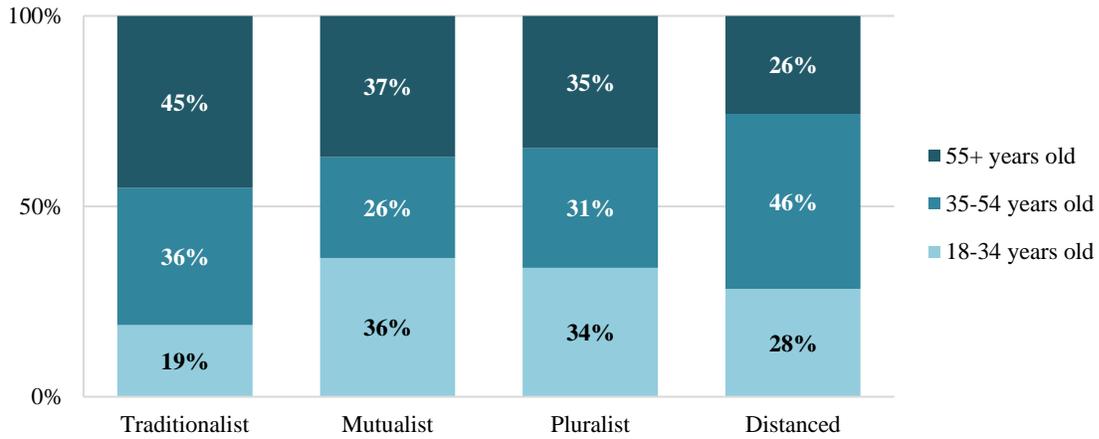


Figure 5: Wildlife value orientations by income groups

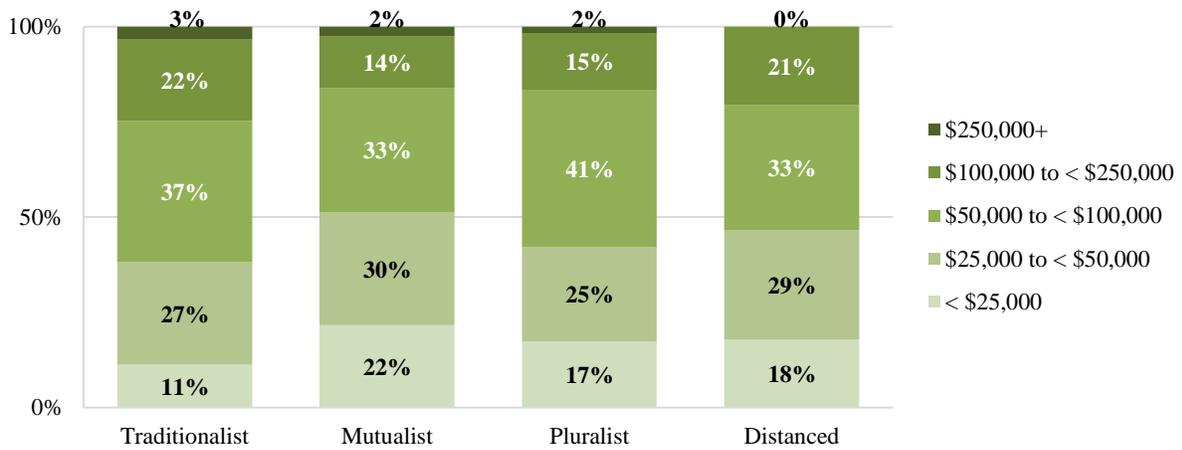


Figure 6: Wildlife value orientations by education

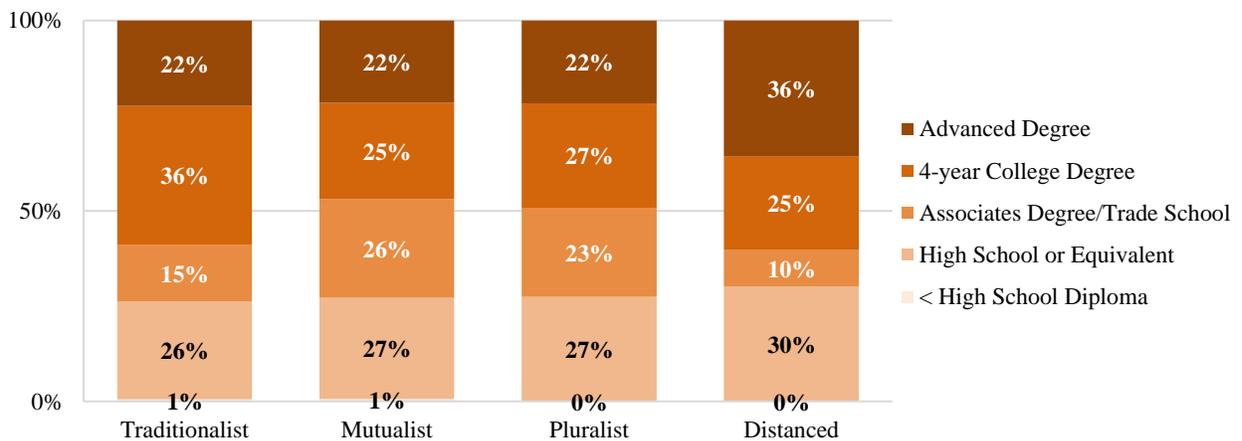
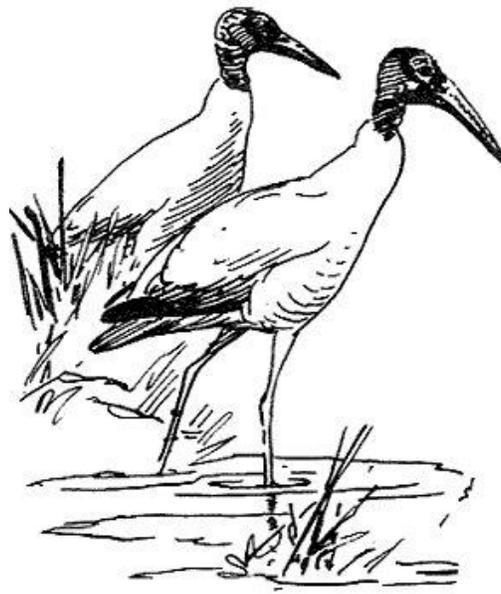
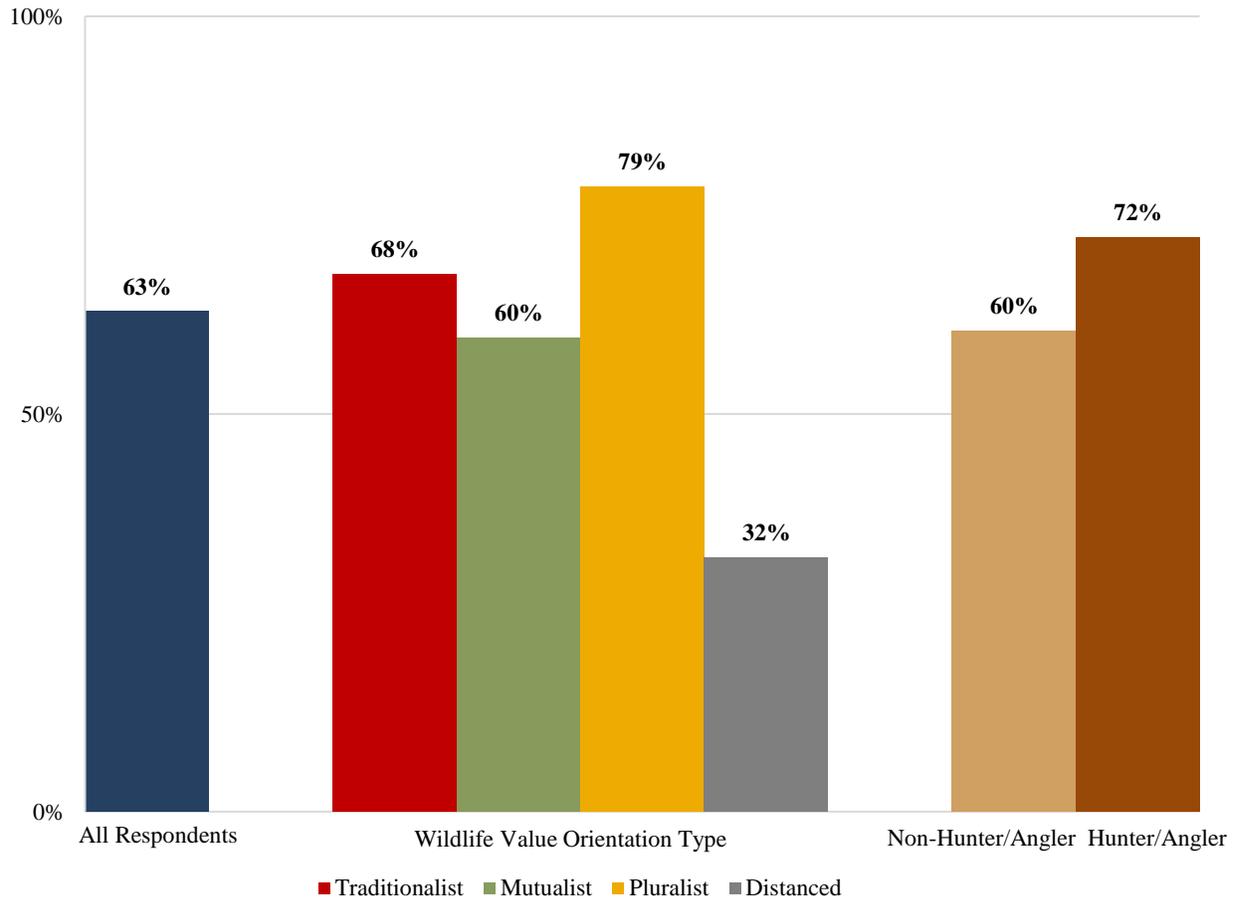


Figure 7: Percent of individuals by group who believed they shared values with agency



Fish and Wildlife-Related Recreation

Having up-to-date information about fish and wildlife-related recreation is vitally important for fish and wildlife management professionals to understand the interests of the public in their states. On this survey, we asked residents from your state to indicate whether they had ever participated in hunting, fishing, and wildlife viewing and if they had participated in these same activities during the past year. Additionally, we asked residents if they had any interest in participating in these activities in the future. Responses to these questions are provided below.

Figure 8: Participation and interest in fish and wildlife-related recreation

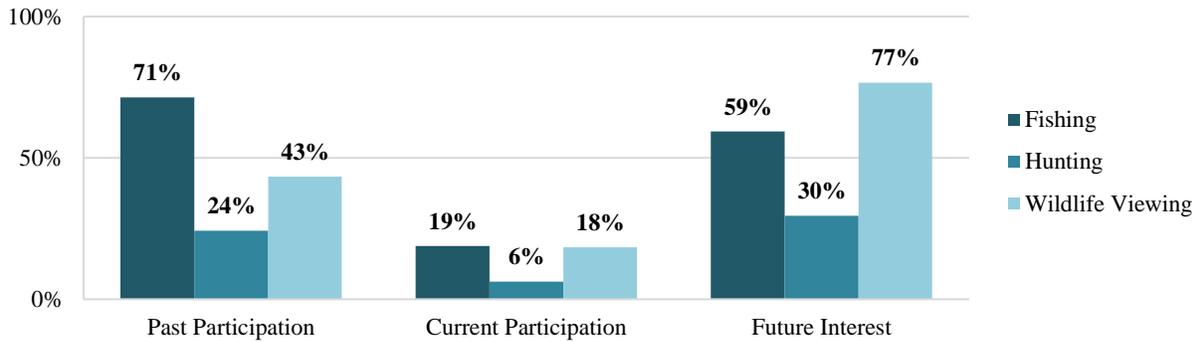


Figure 9: Fishing participation and future interest by wildlife value orientation

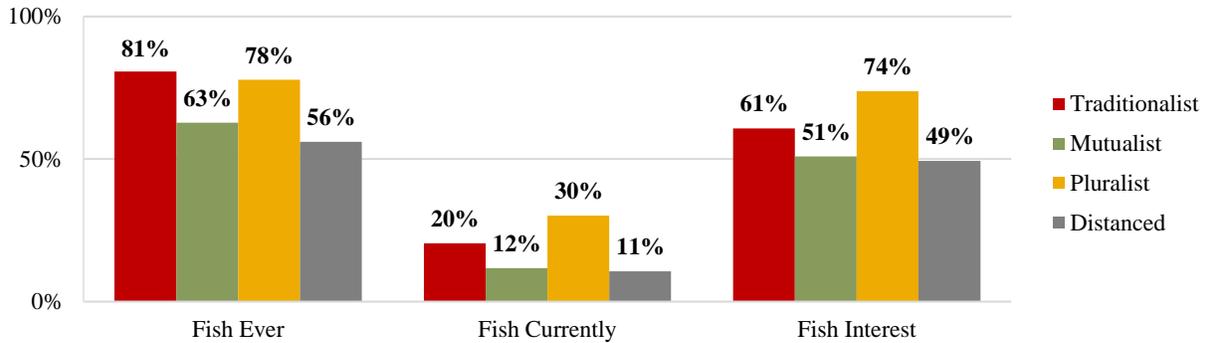


Figure 10: Hunting participation and future interest by wildlife value orientation

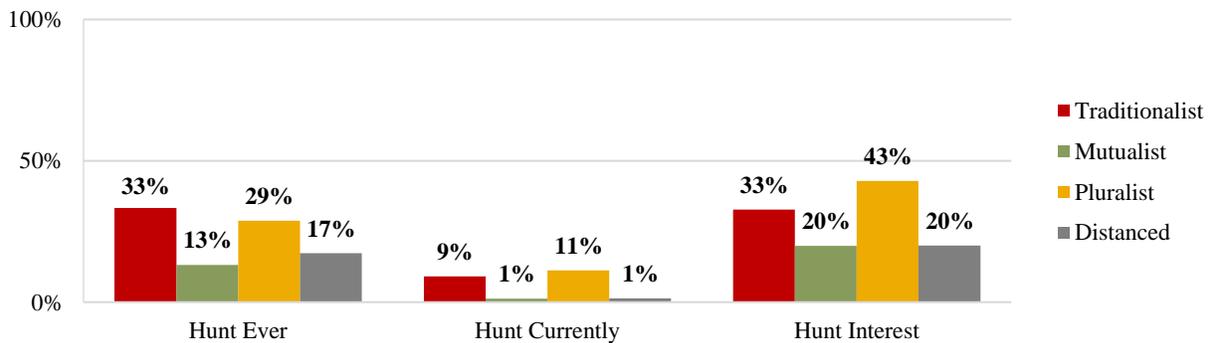
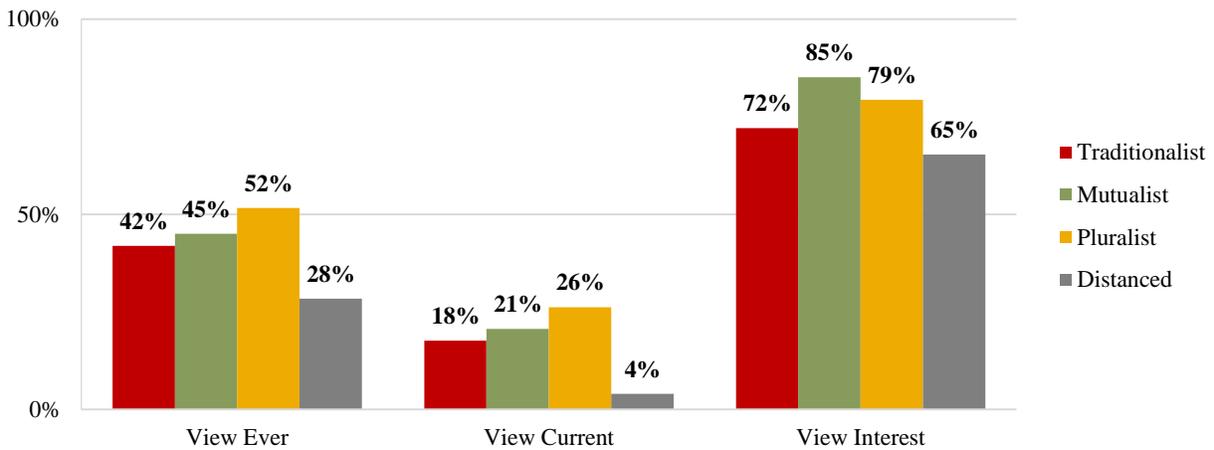


Figure 11: Wildlife viewing participation and future interest by wildlife value orientation



Recruitment and Reactivation

Many state fish and wildlife agencies are interested in recruiting more people to participate in fish and wildlife-related recreation, and reactivating those who are not current participants but have participated in such activities in the past. Below is the percent of respondents from these two categories who have expressed interest in future participation in fish and wildlife-related recreation.

Fishing

59% of respondents are interested in **fishing** in the future. Of those,

- **31%** actively participate in fishing.
- **55%** have fished but not in the past year.
- **14%** have never fished before.

Hunting

30% of respondents are interested in **hunting** in the future. Of those,

- **20%** actively participate in hunting.
- **30%** have hunted but not in the past year.
- **49%** have never hunted before.

Wildlife Viewing

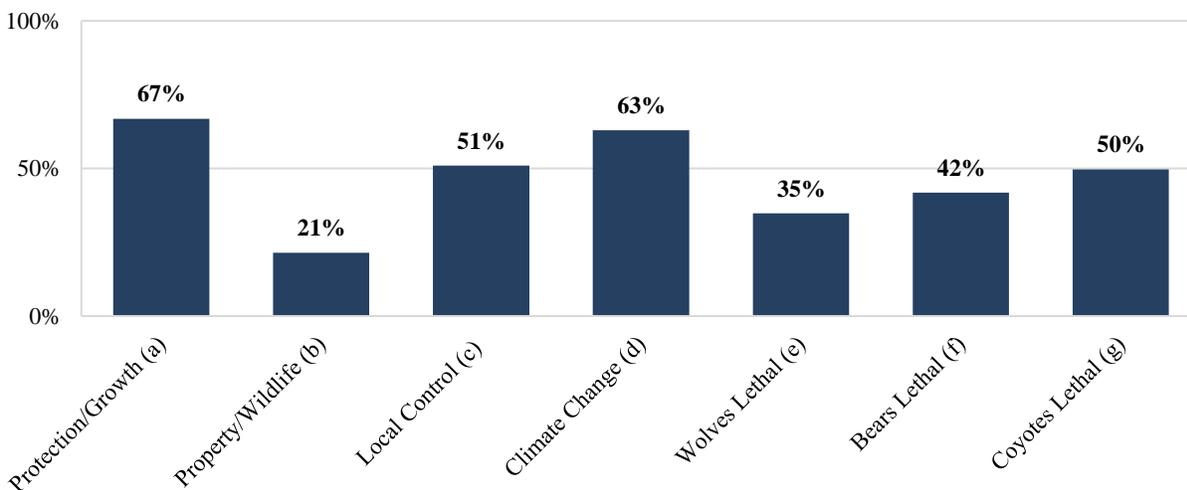
77% of respondents are interested in **wildlife viewing** in the future. Of those,

- **24%** actively participate in wildlife viewing.
- **31%** have participated in wildlife viewing but not in the past year.
- **45%** have never participated in wildlife viewing before.

Issue-Specific Attitudes

Respondents' attitudes towards different fish and management issues were also measured in this survey. For each statement, respondents were asked to rate their agreement from *strongly disagree* to *strongly agree*. Below are charts indicating agreement with each of these statements by wildlife value orientation type and current hunting/fishing participation. Detailed frequencies for these data can be found at the end of this report.

Figure 12: Agreement with statements about fish and wildlife management



Statement Texts:

- a. *Protection/Growth: We should strive for a society that emphasizes environmental protection over economic growth.*
- b. *Property/Wildlife: Private property rights are more important than protecting declining or endangered fish and wildlife.*
- c. *Local Control: Local communities should have more control over the management of fish and wildlife.*
- d. *Climate Change: The earth is getting warmer mostly because of human activity such as burning fossil fuels.*
- e. *Wolves Lethal: Wolves that kill livestock should be lethally removed.*
- f. *Bears Lethal: If a black bear attacks a person, that bear should be lethally removed regardless of the circumstances.*
- g. *Coyotes Lethal: Coyotes that kill pets in residential areas should be lethally removed.*

Figure 13: Agreement with statements about fish and wildlife management by wildlife value orientation

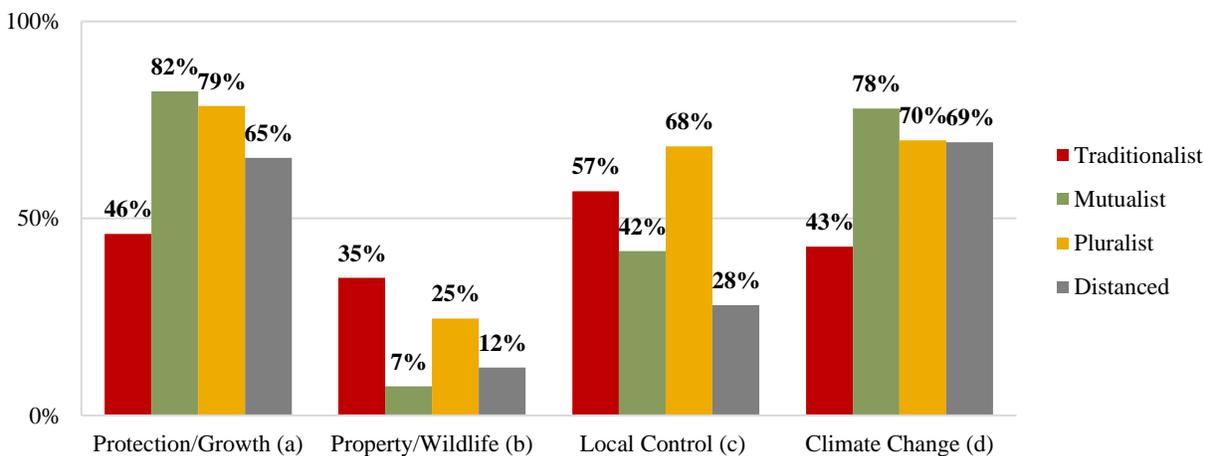


Figure 14: Agreement with statements about fish and wildlife management by current hunting/fishing participation

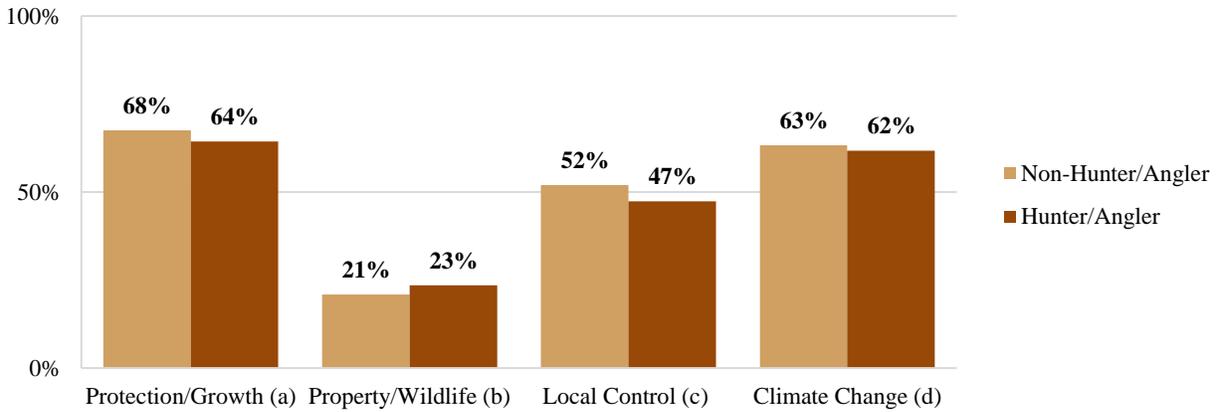


Figure 15: Agreement with statements about lethal removal by wildlife value orientation

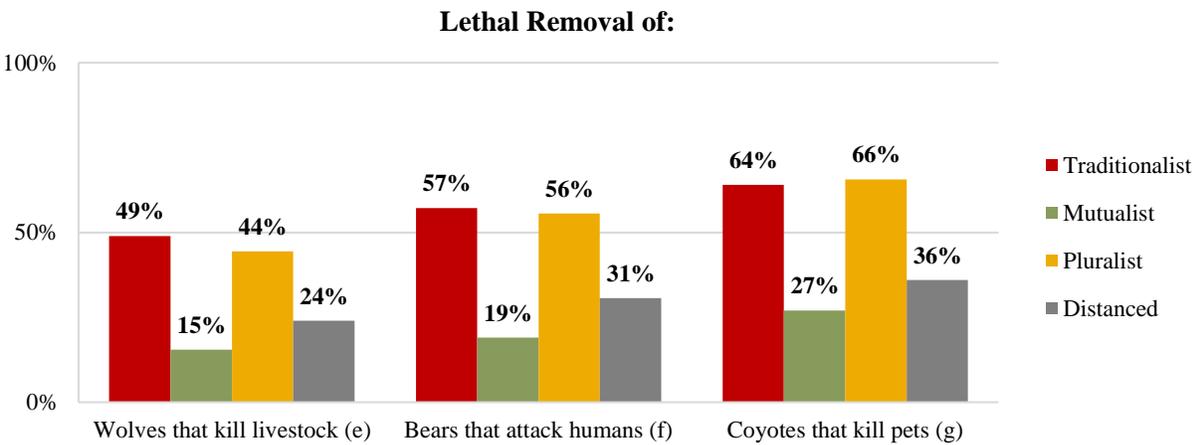
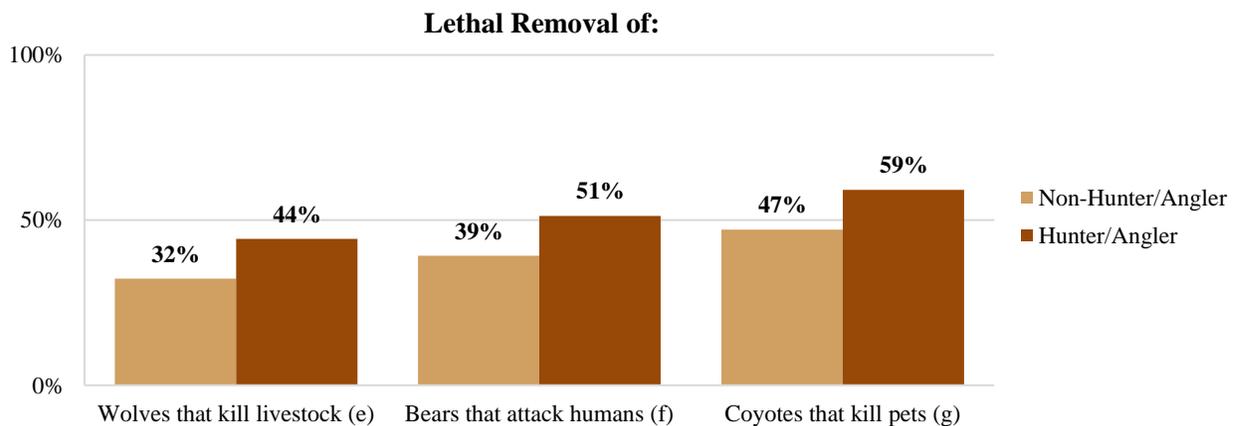


Figure 16: Agreement with statements about lethal removal by current hunting/fishing participation



Funding for Fish and Wildlife Management

Respondents also provided their views on how fish and wildlife management is currently funded, and how management should be funded in the future on a 7-point scale ranging from entirely funded by hunting and fishing license fees (license fees) to equally funded by license fees and public tax funds (public taxes) to entirely funded by public taxes. Here we provide a 3-category reduced summary of how each item was answered by respondents with different wildlife value orientations and by current hunting and fishing participation so that “mostly” represents the 2 points on either tail of the 7-point scale, and the midpoint represents the 3 middle response options.

Figure 17: Current and future funding for fish and wildlife management

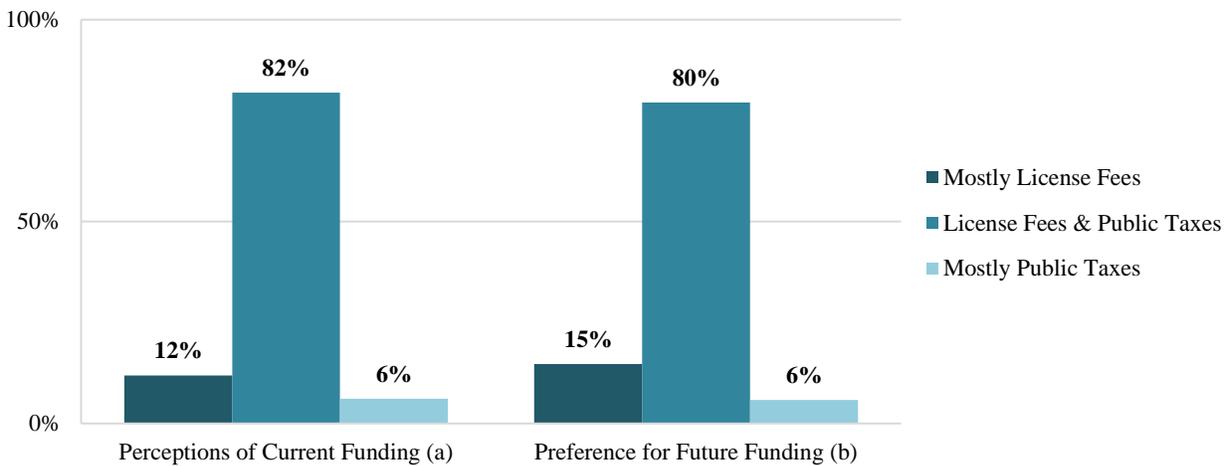


Figure 18: Funding for fish and wildlife management by wildlife value orientation

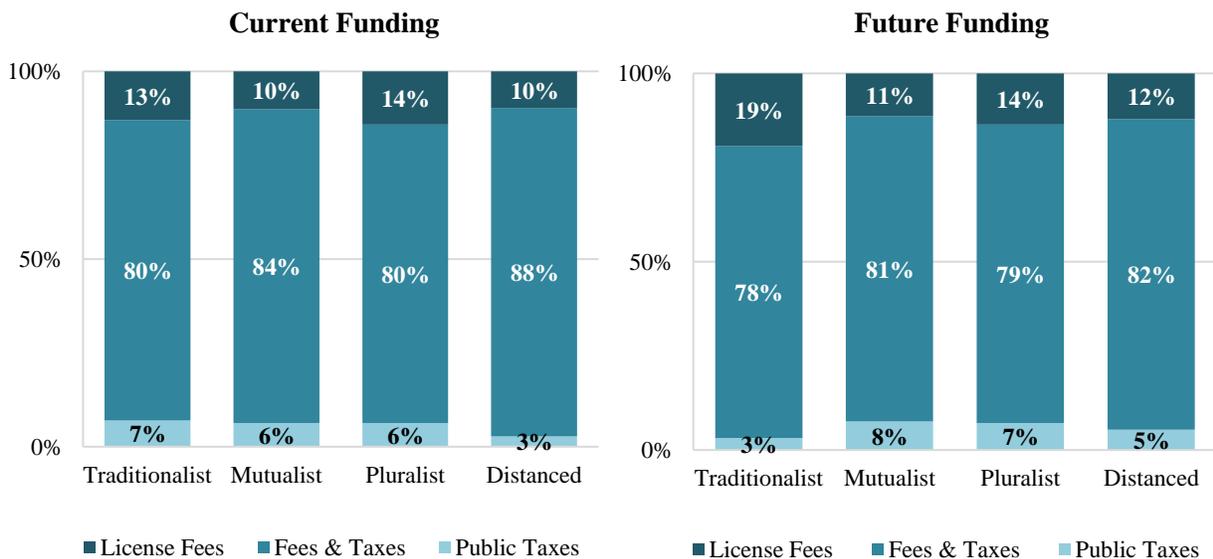
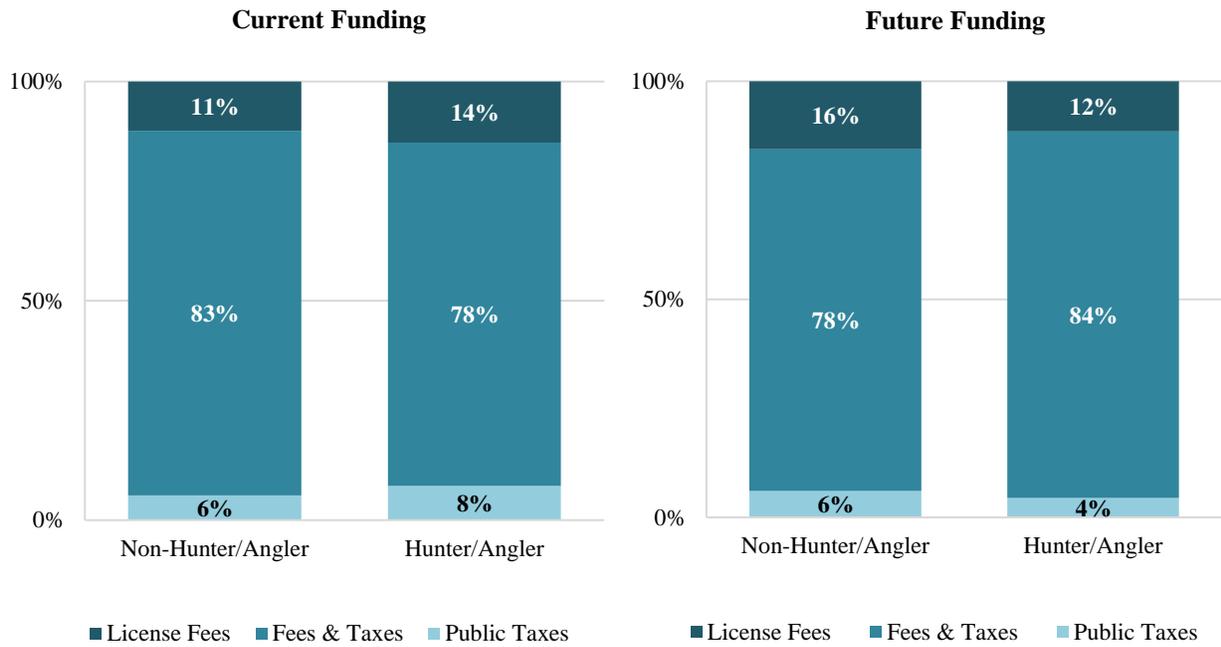


Figure 19: Funding for fish and wildlife management by current hunting/fishing participation



Public Trust

Public trust in government is an important indicator for understanding public perceptions. In the United States, trust at all levels of government has been declining since the 1960s, which may be indicative of broad changes in how people view government and governing agencies (Chanley et al., 2000). We asked residents from your state to rate their trust in the federal government to do what is right for your country, state government to do what is right for your state, and state fish and wildlife agency to do what is right for fish and wildlife management in your state on a scale ranging from “almost never” to “almost always”. The figures below indicate the percentage of respondents who expressed trust in these governing bodies “most” or “all” of the time.

Figure 20: Trust in federal and state government and state fish and wildlife agency

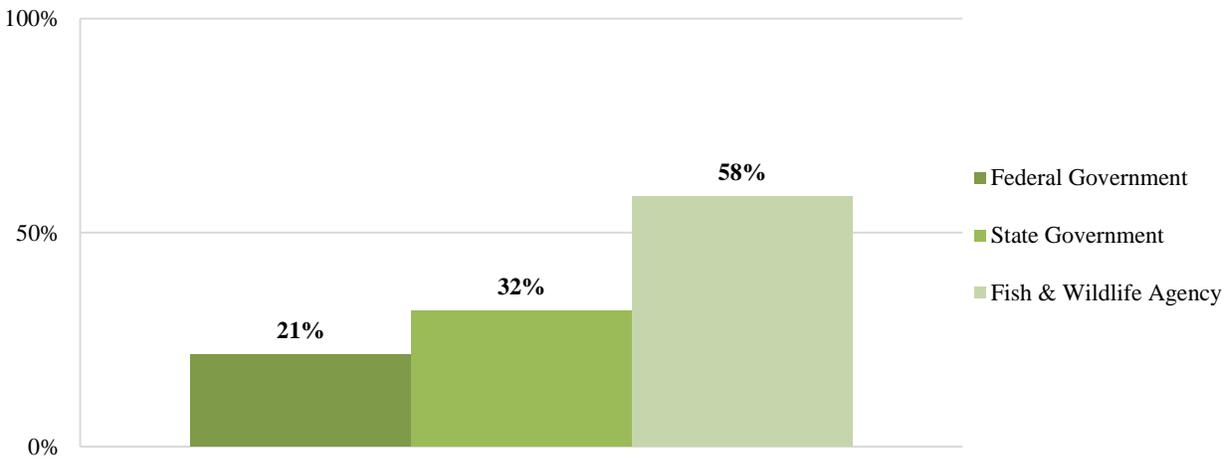


Figure 21: Trust in government by wildlife value orientation

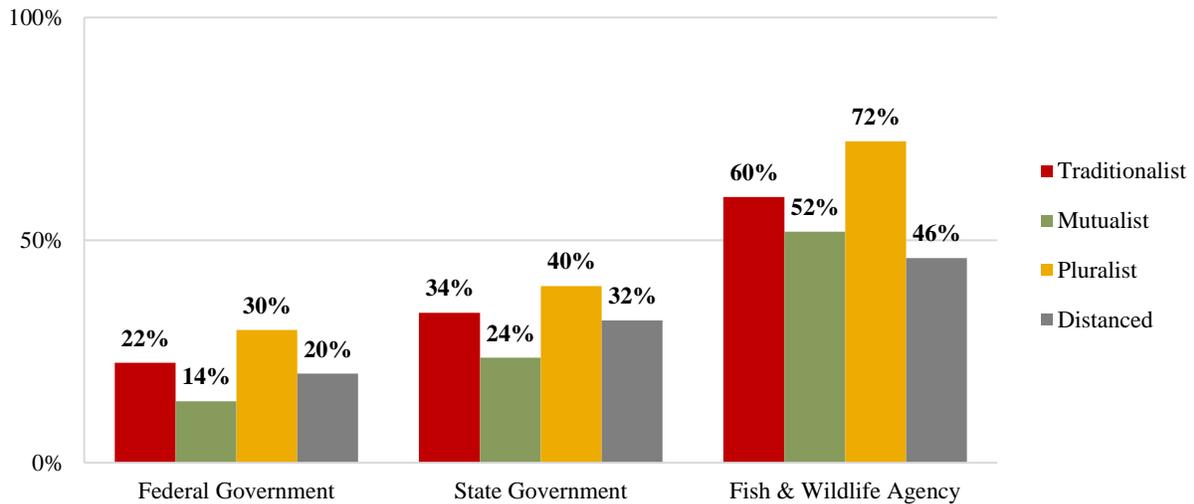
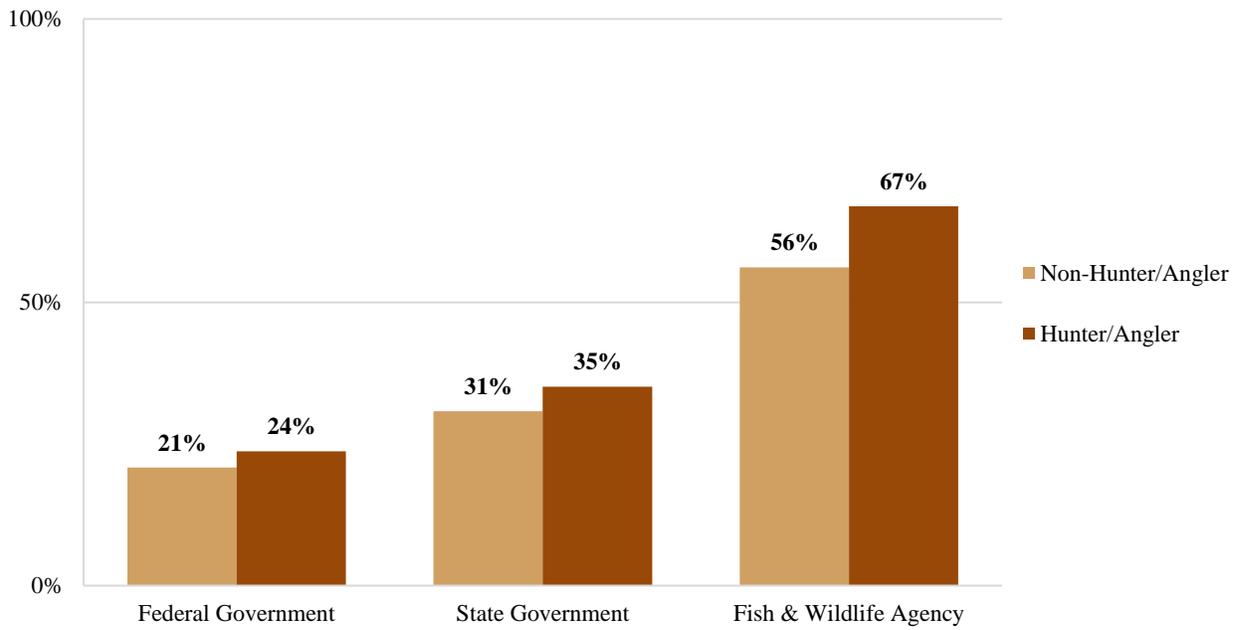


Figure 22: Trust in government by current hunting/fishing participation



Support for Hunting as a Source of Local, Organic Meat

Residents were given the following prompt: “Recently, there has been increased attention to the idea that hunting can provide a good way for people to obtain antibiotic-free, organic meat from a local source. We’d like to know if this idea is at all related to your current views about hunting and participation in the activity.” Respondents were asked to respond “yes” or “no” to indicate if this idea was related to their current views about and participation in hunting. Responses to the prompt are presented below for all residents, by wildlife value orientation, and by current hunting/fishing participation.

Figure 23: Support for hunting as a source of local, organic meat

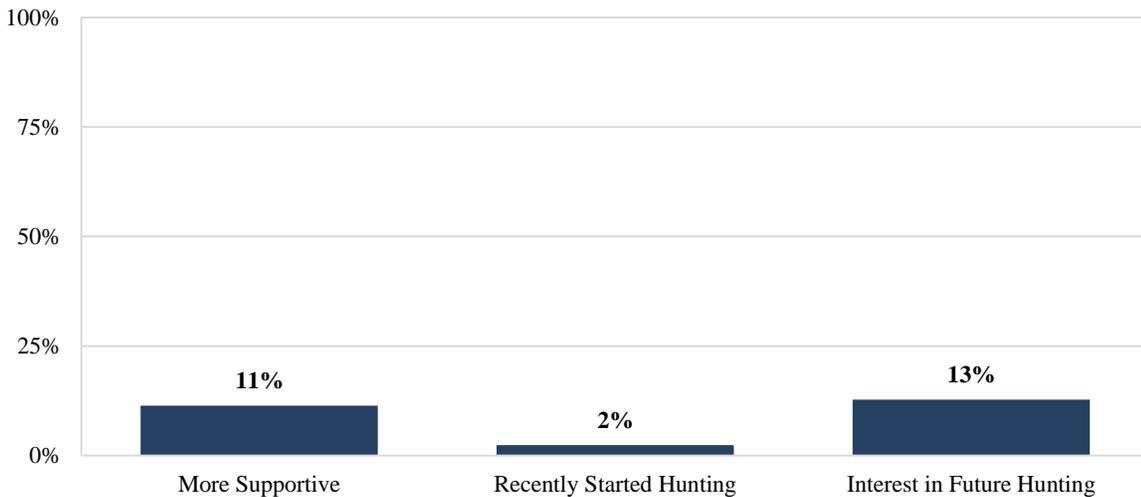


Figure 24: Support for hunting as a source of local, organic meat by wildlife value orientation

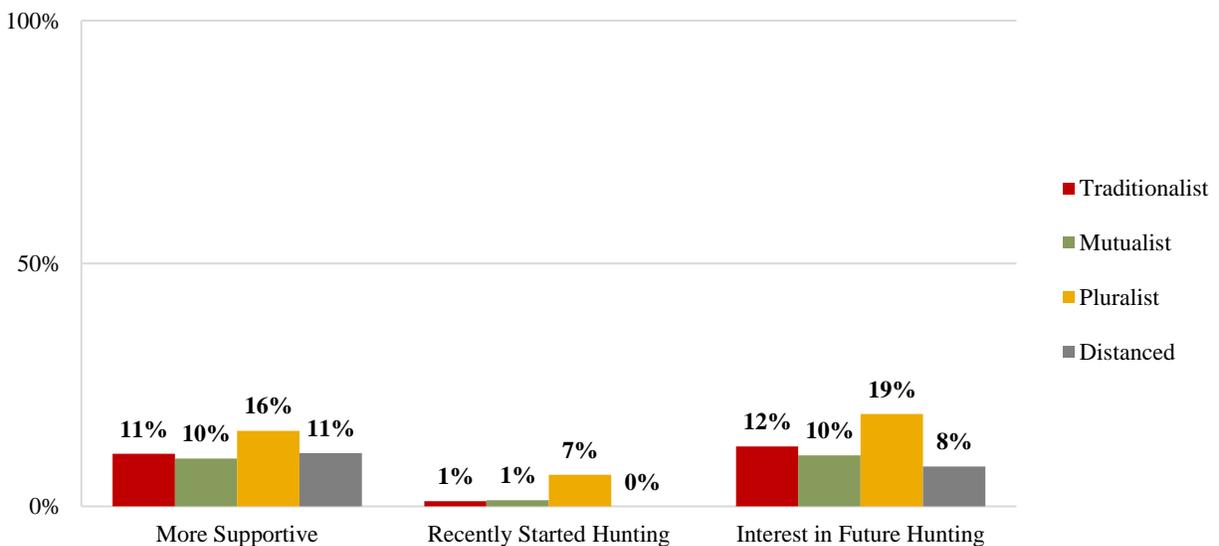
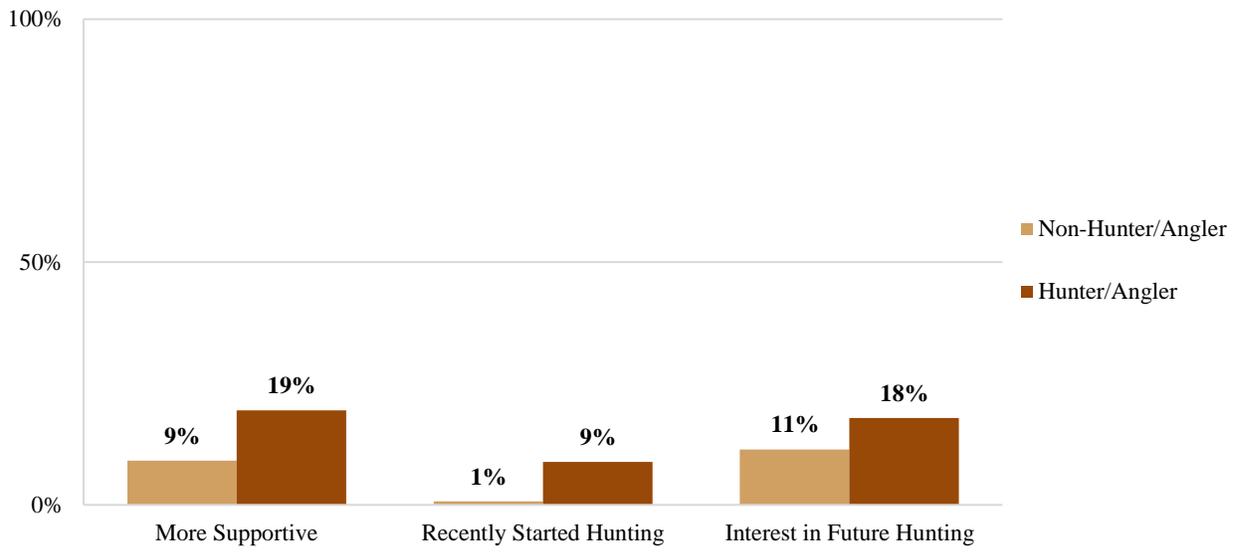


Figure 25: Support for hunting as a source of local, organic meat by current hunting/fishing participation



Perceptions of the Michigan Department of Natural Resources

Residents were asked the extent to which they believe the Michigan Department of Natural Resources (DNR) does the following:

- ...manages natural resources in a scientifically sound manner, and
- ...provides adequate opportunities for public participation in natural resource decisions.

Responses were measured on a scale of “never”, “sometimes”, “usually”, and “always” with an additional response option of “unsure”. Results are described below for all residents, by current hunting/fishing participation, and by wildlife value orientation.

Figure 26: Perception that the Michigan DNR manages natural resources in a scientifically sound manner

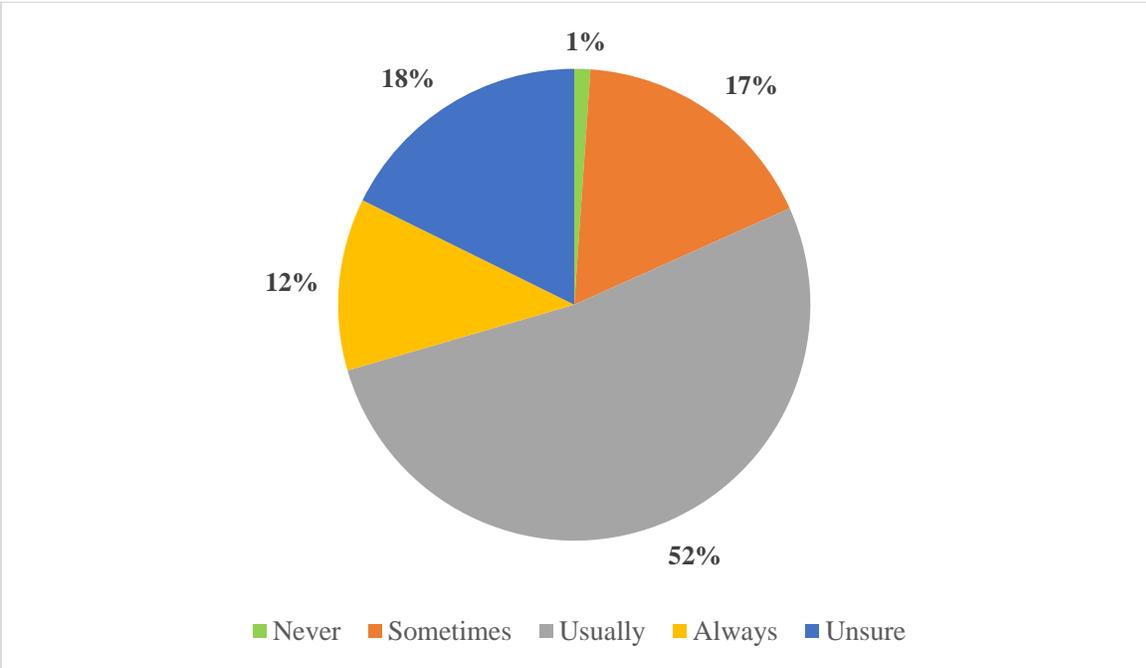


Figure 27: Perception that the Michigan DNR manages natural resources in a scientifically sound manner by current hunting/fishing participation

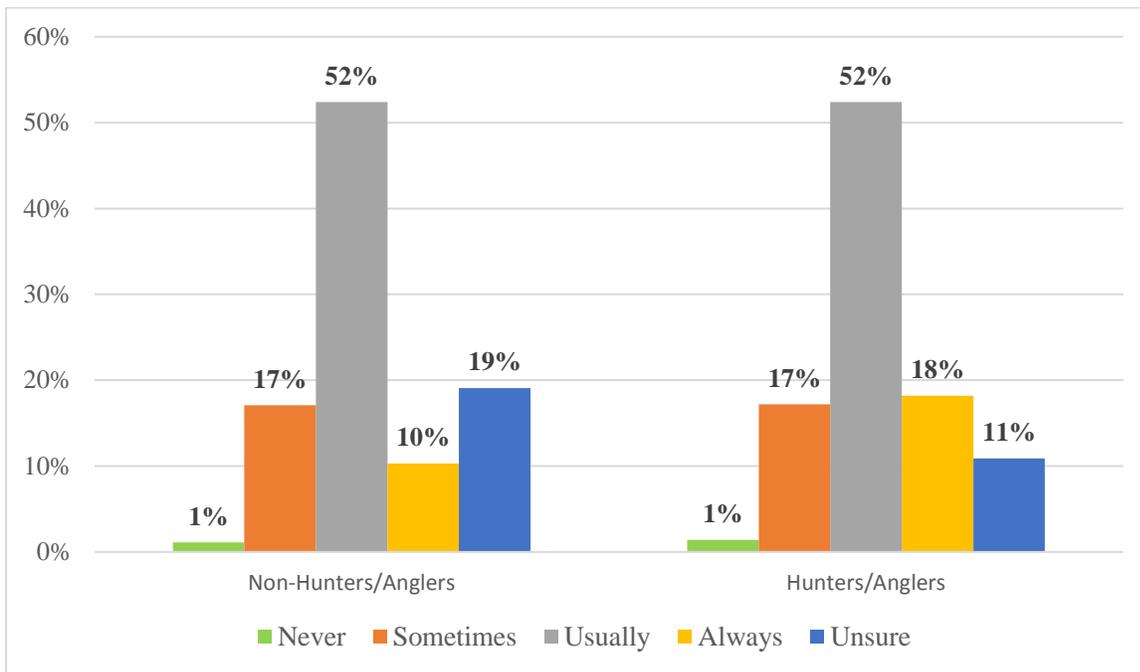


Figure 28: Perception that the Michigan DNR manages natural resources in a scientifically sound manner by wildlife value orientation

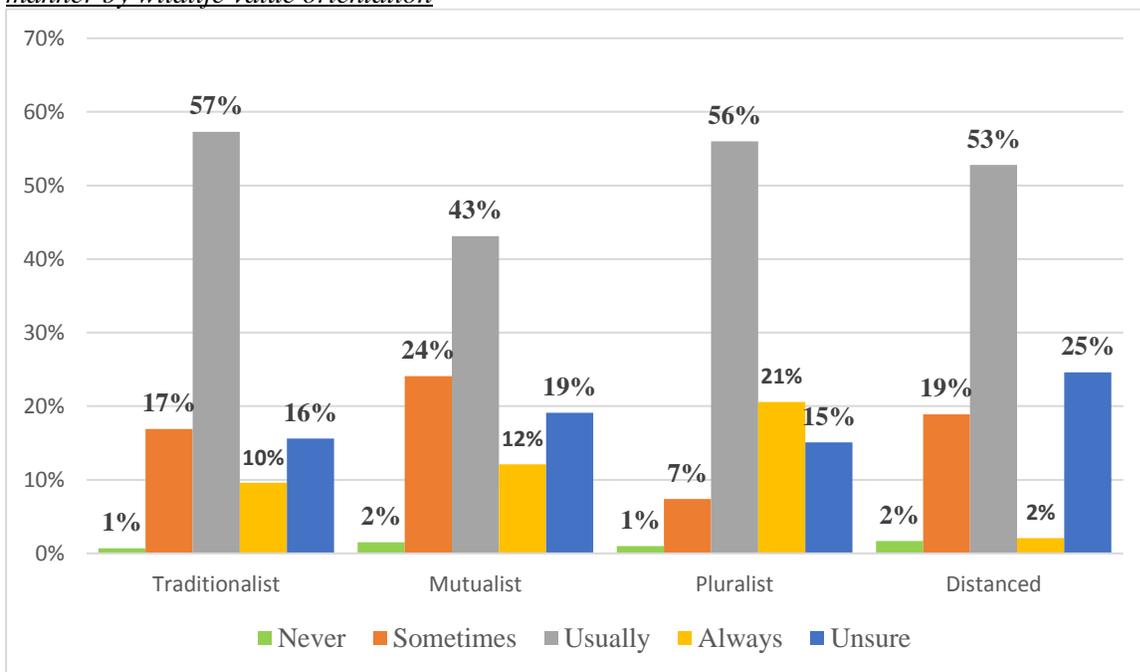


Figure 29: Perception that the Michigan DNR provides adequate opportunities for public participation in natural resource decisions

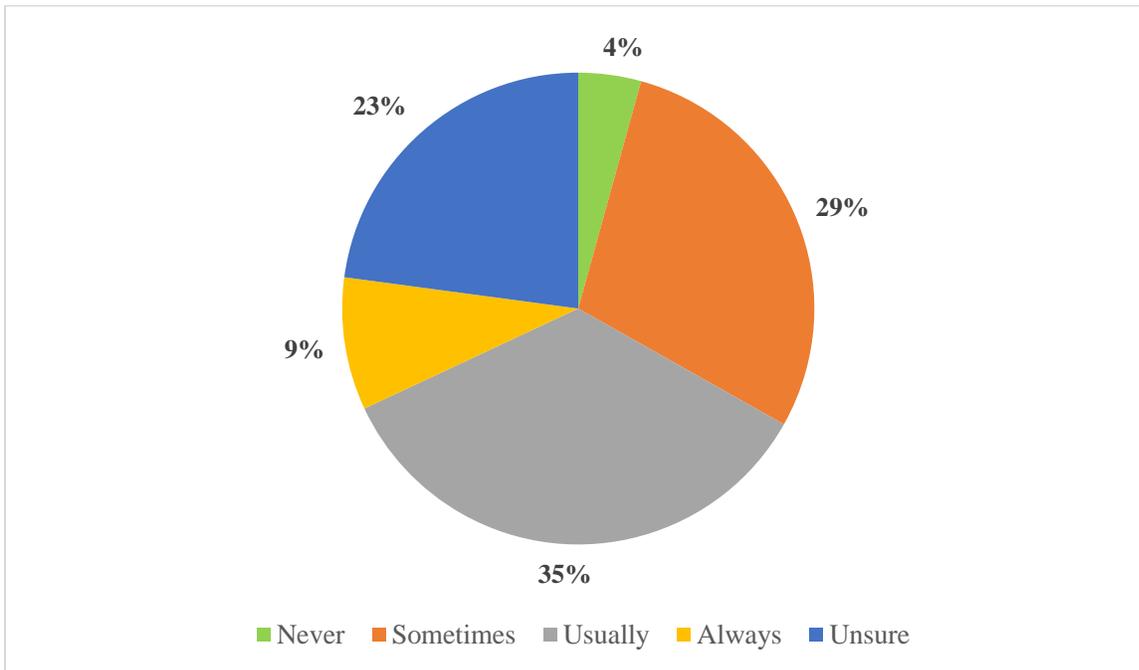


Figure 30: Perception that the Michigan DNR provides adequate opportunities for public participation in natural resource decisions by current hunting/fishing participation

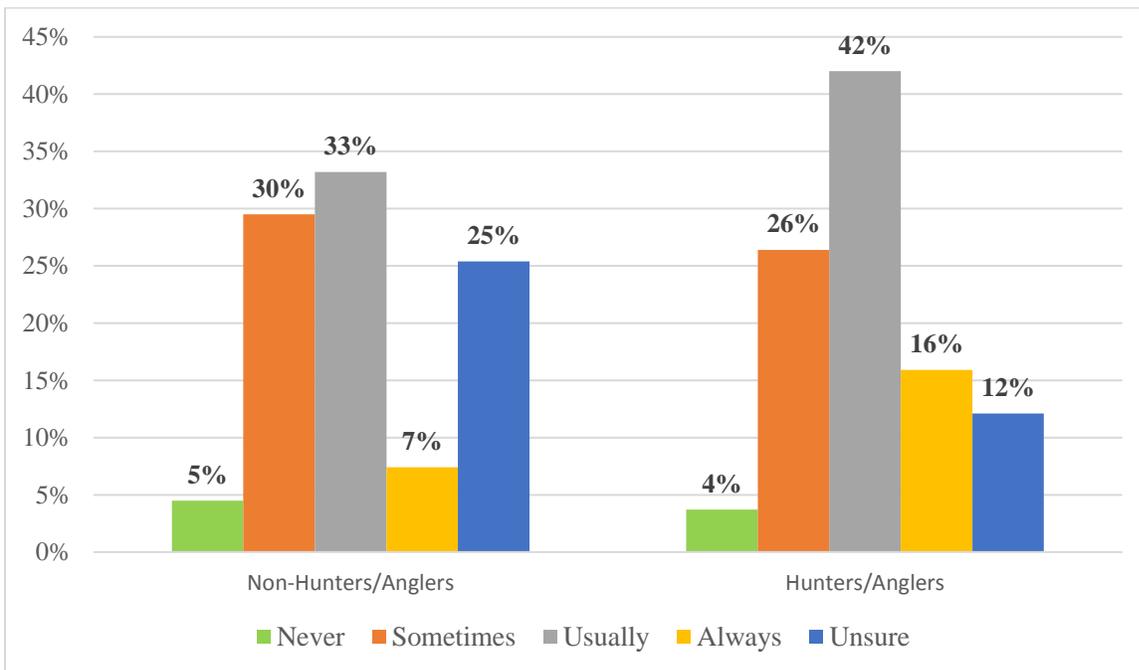
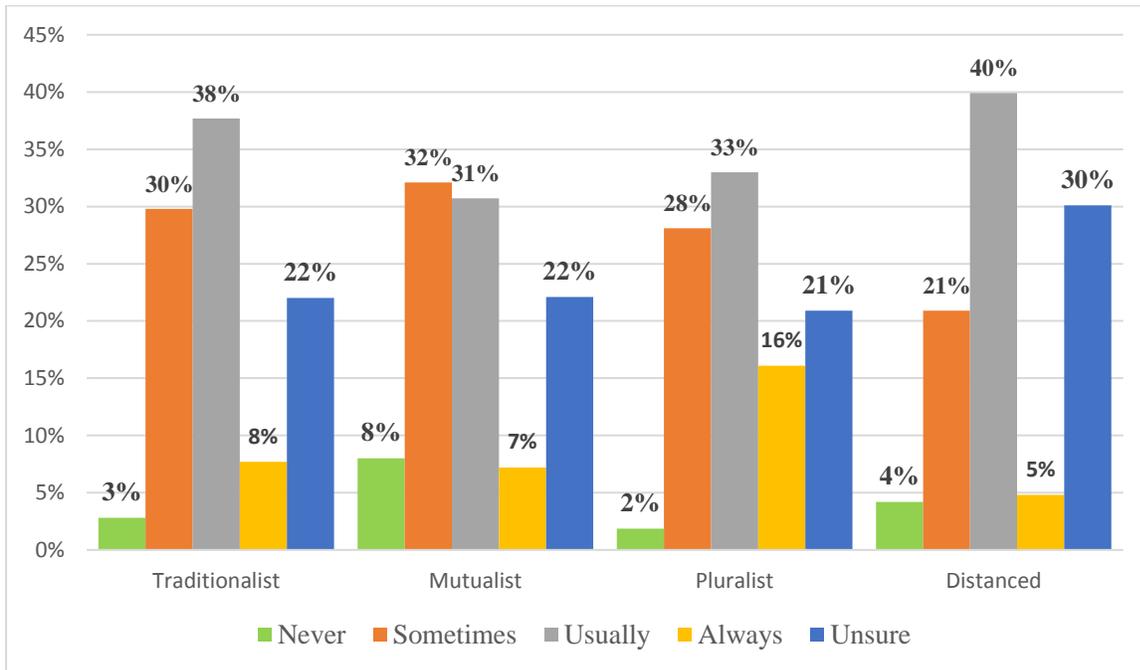


Figure 31: Perception that the Michigan DNR provides adequate opportunities for public participation in natural resource decisions by wildlife value orientation



Priority of Michigan DNR Natural Resource Management Goals

Respondents were asked to rank order the priority of four natural resource management goals for the Michigan Department of Natural Resources (DNR). The natural resource management goals were:

- ...to provide recreational opportunities,
- ...to actively promote the ecological health of Michigan,
- ...to support resource development for greater economic growth, and
- ...to allow nature to take its course.

Respondents were asked to rank each management goal as the 1st priority, 2nd priority, 3rd priority, or 4th priority. Results are described below for all residents, by current hunting/fishing participation, and by wildlife value orientation.

Figure 32: Priority ranking of each natural resource management goal

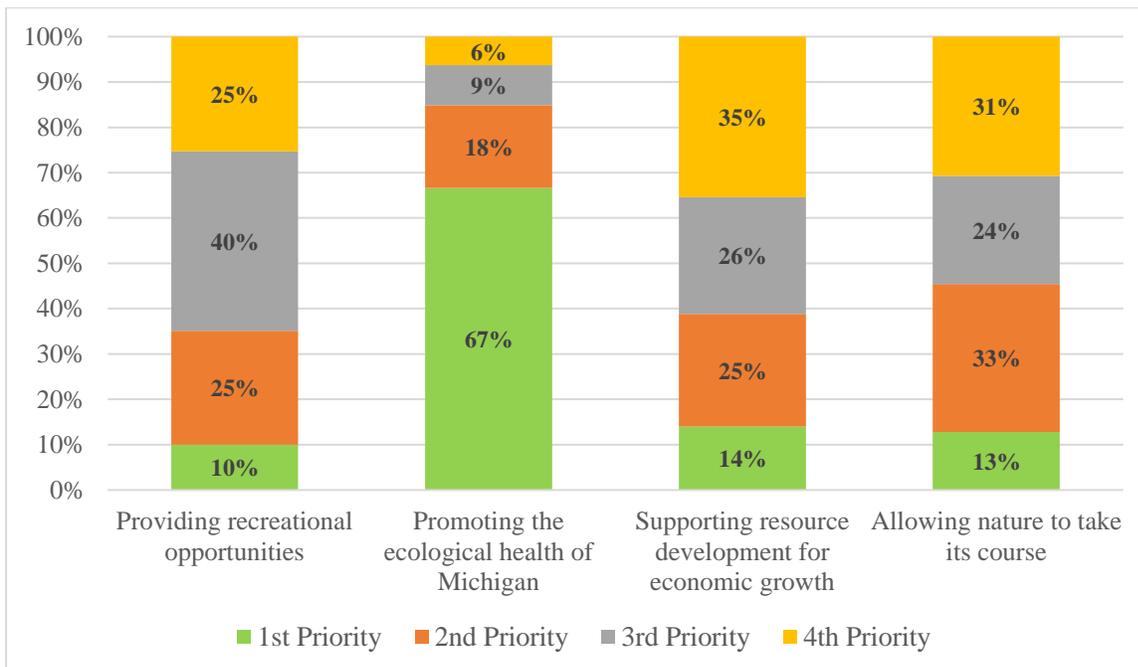


Figure 33: Average priority ranking of natural resource management goals from 1 = 1st priority through 4 = 4th priority

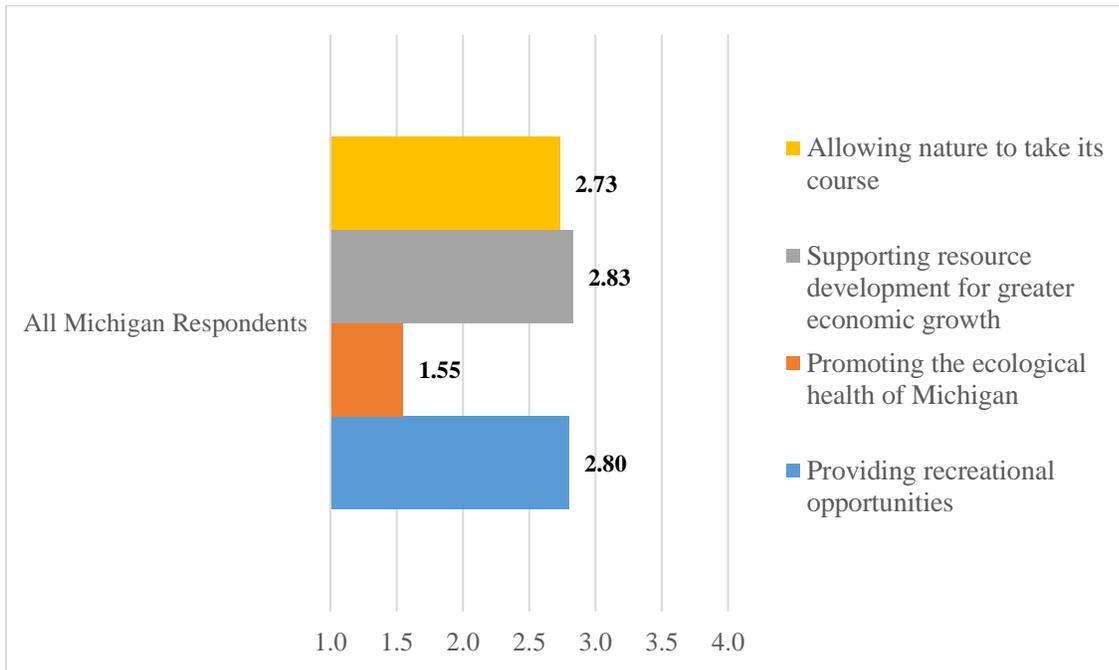


Figure 34: Priority ranking of providing recreational opportunities by current hunting/fishing participation

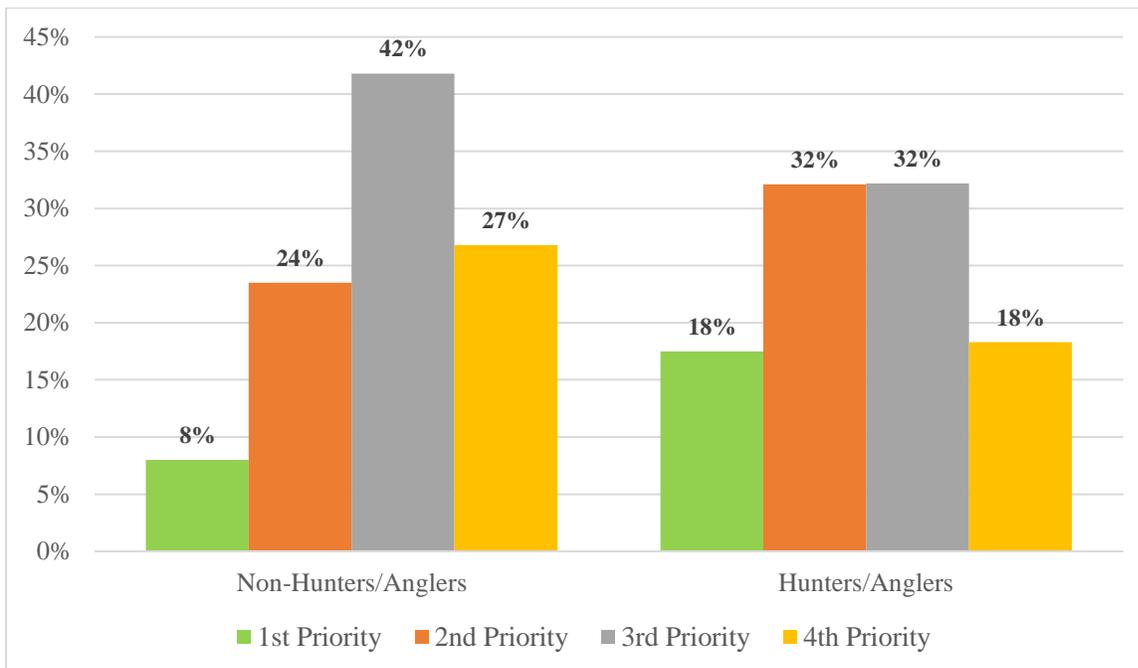


Figure 35: Priority ranking of promoting the ecological health of Michigan by current hunting/fishing participation

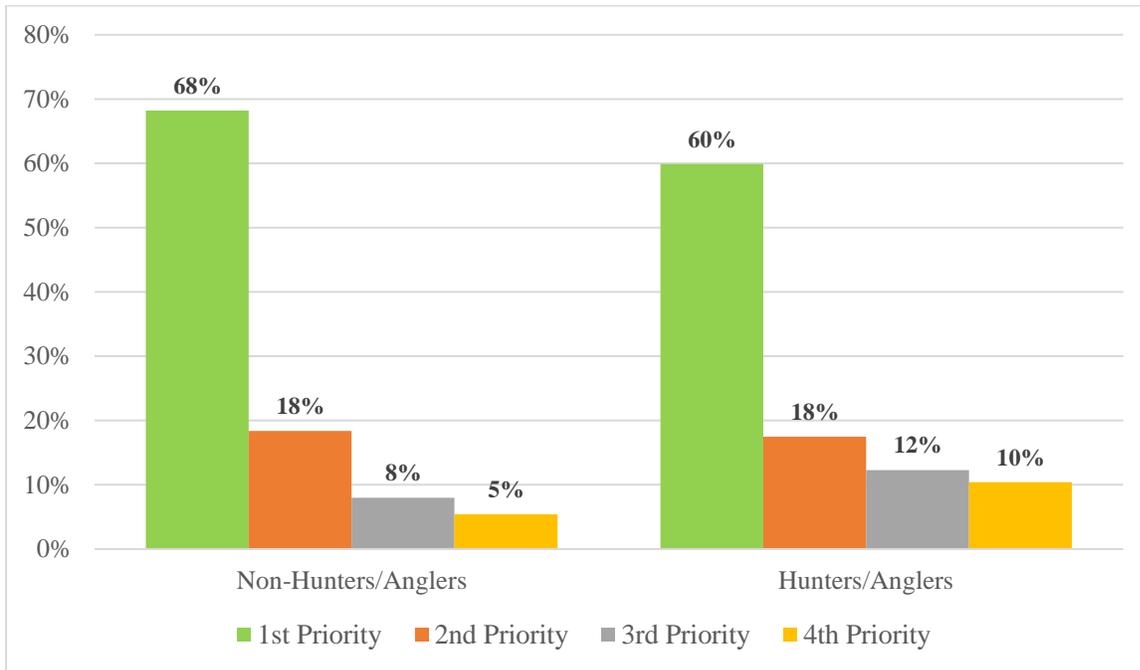


Figure 36: Priority ranking of supporting resource development for economic growth by current hunting/fishing participation

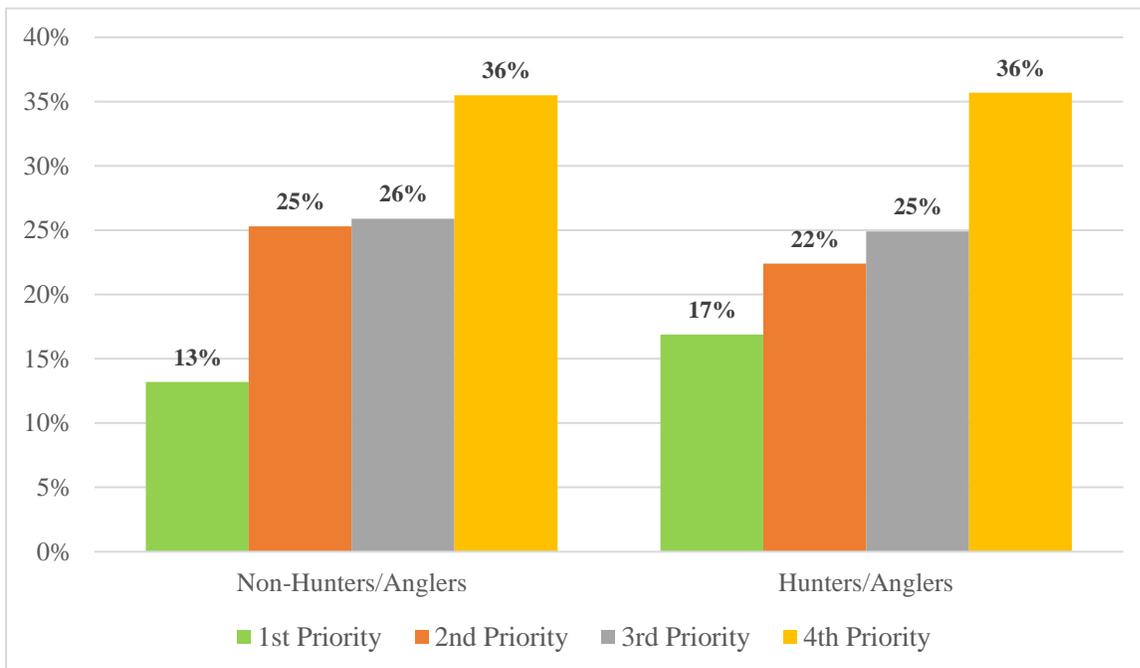


Figure 37: Priority ranking of allowing nature to takes its course by current hunting/fishing participation

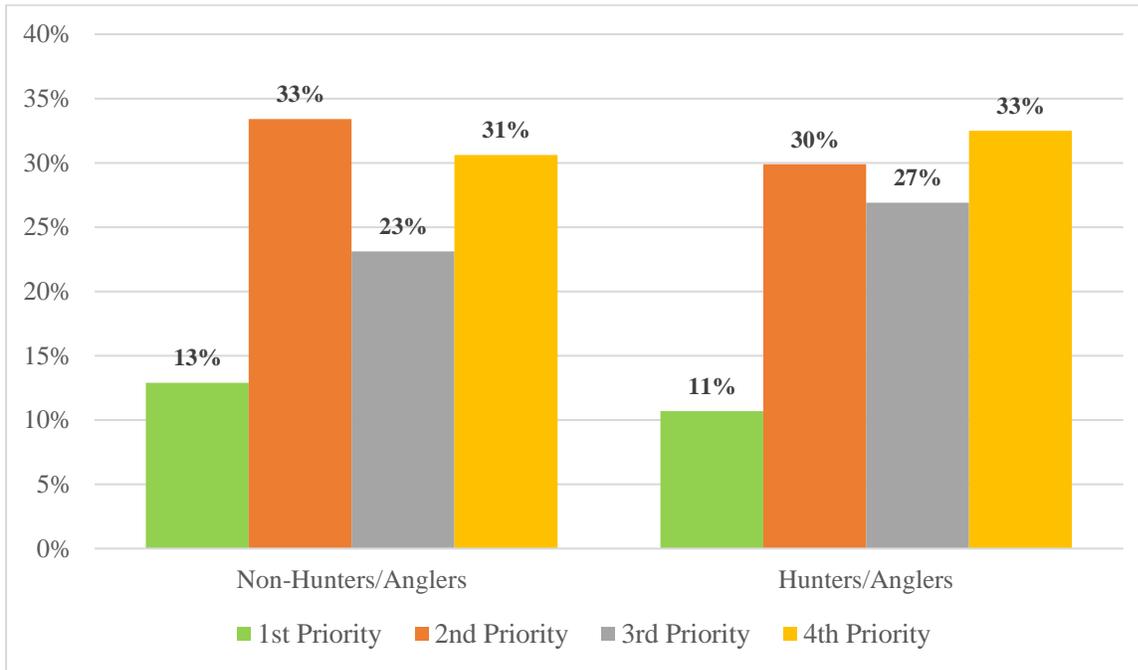


Figure 38: Average priority ranking of natural resource management goals by current hunting/fishing participation

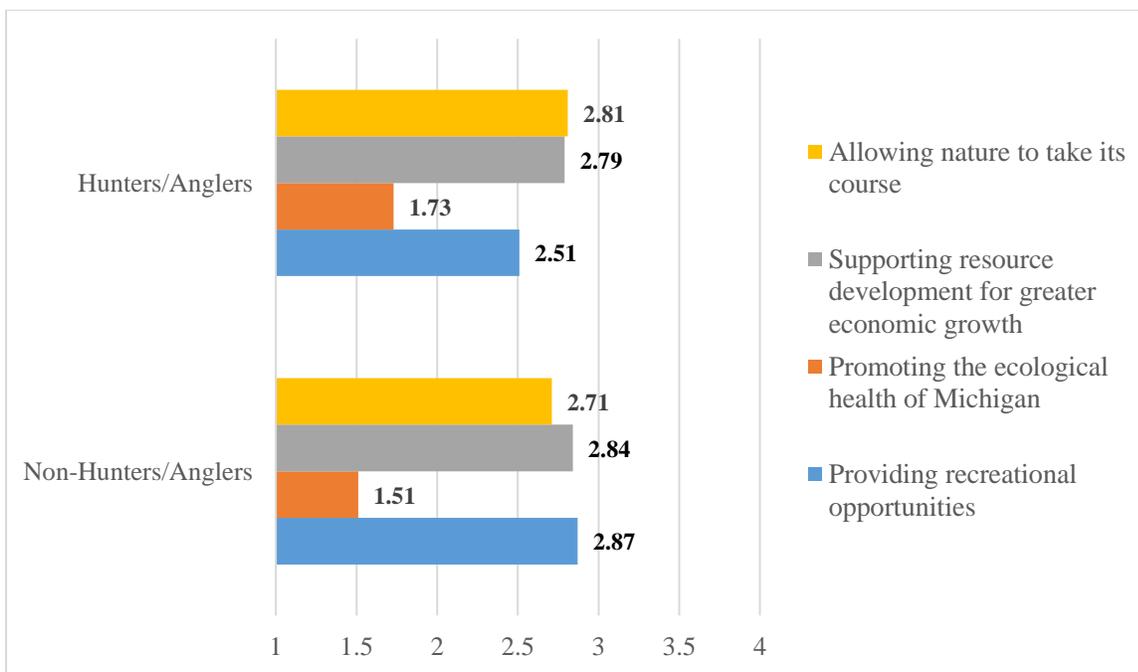


Figure 39: Priority ranking of providing recreational opportunities by wildlife value orientation

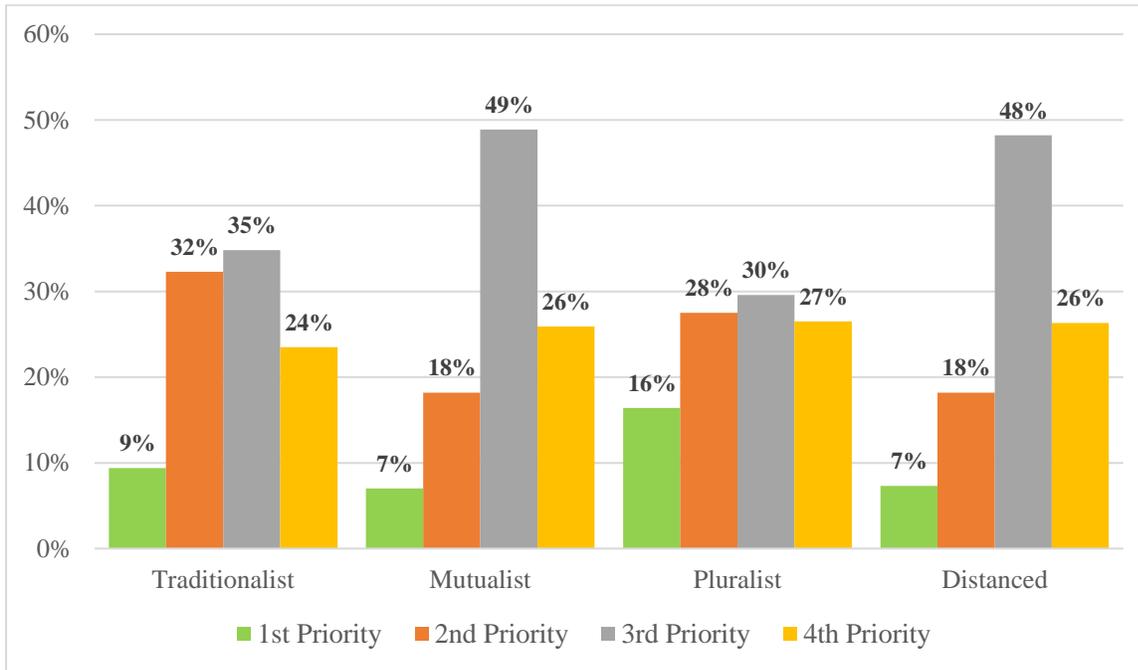


Figure 40: Priority ranking of promoting the ecological health of Michigan by wildlife value orientation

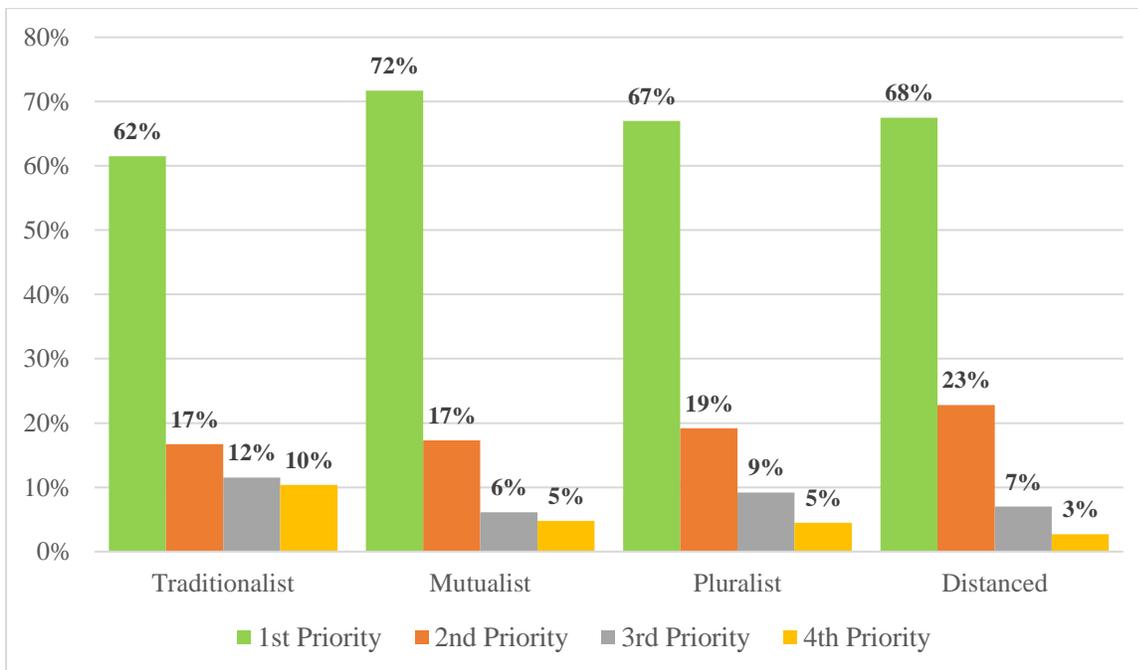


Figure 41: Priority ranking of supporting resource development for greater economic growth by wildlife value orientation

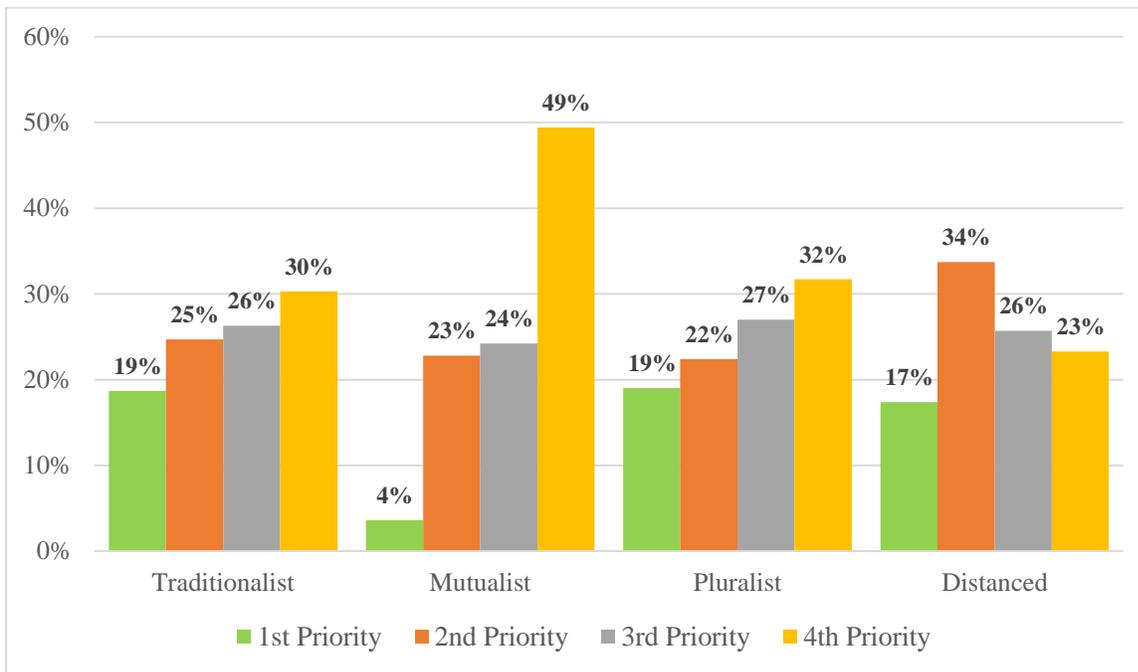


Figure 42: Priority ranking of allowing nature to take its course by wildlife value orientation

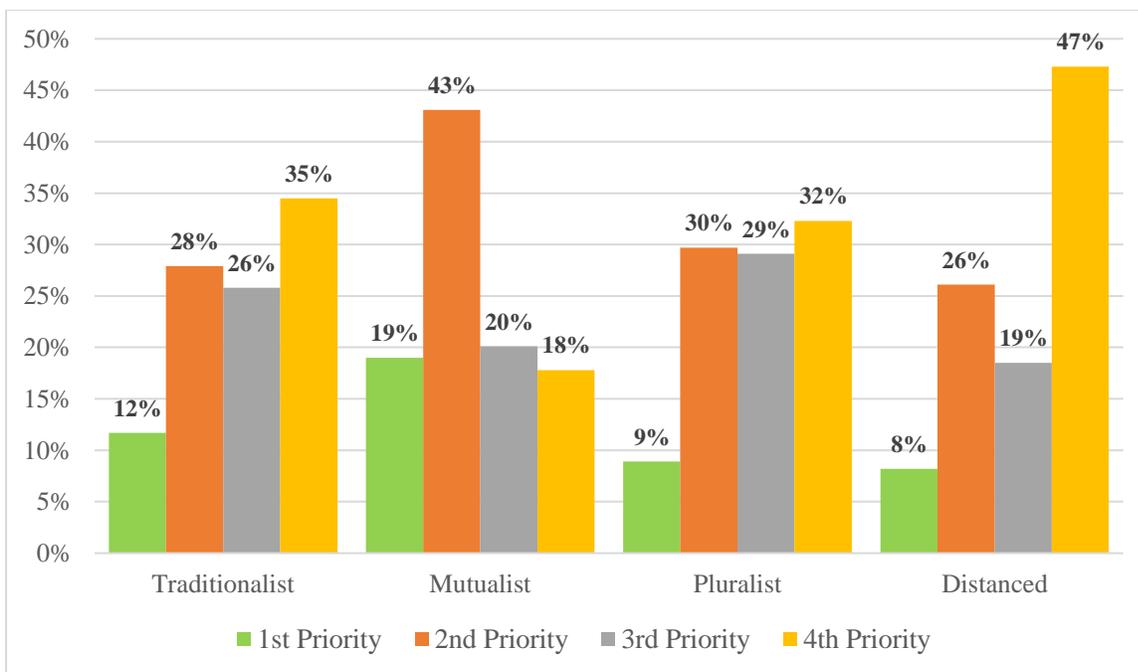
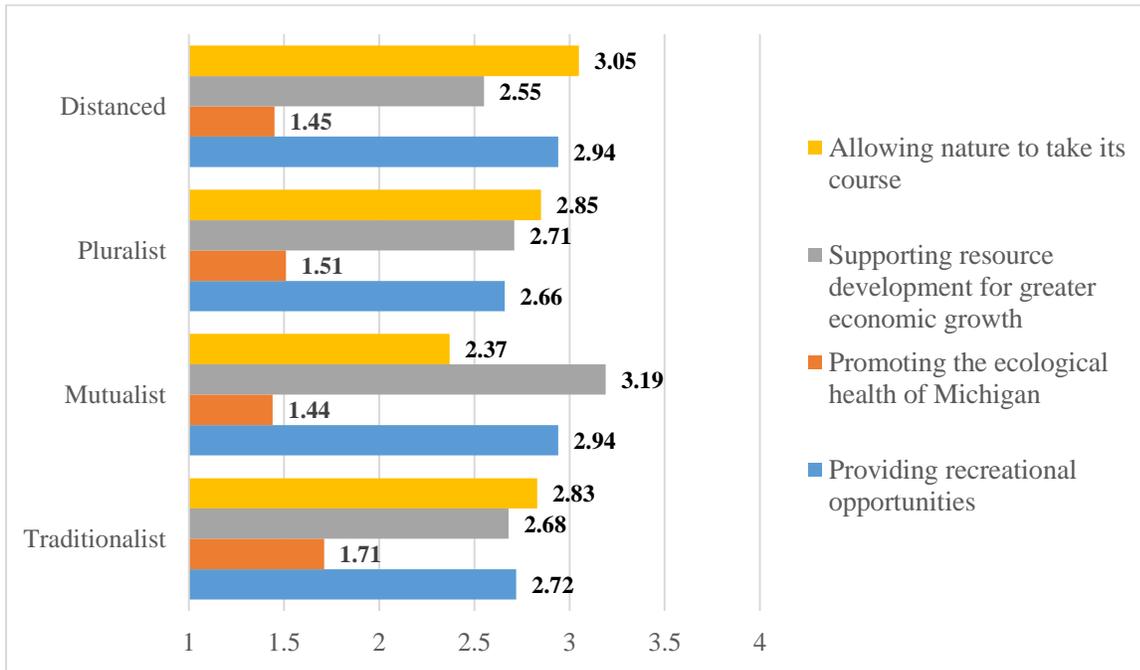


Figure 43: Average priority ranking of natural resource management goals by wildlife value orientation



Preferences for Spending on Wildlife Management in Michigan

Respondents were asked how much money should be spent on managing and conserving different types of wildlife species in Michigan. Specifically, they were asked about their preferences for spending on managing and conserving...

- ...threatened and endangered species in Michigan, and
- ...game species in Michigan

Responses were measured for spending for each type of species as “much less”, “slightly less”, “about the same”, “slightly more”, and “much more”, with an additional response option of “unsure”. Results are described below for all residents, by current hunting/fishing participation, and by wildlife value orientation.

Figure 44: Preferences for how much money should be spent on managing and conserving threatened and endangered species in Michigan

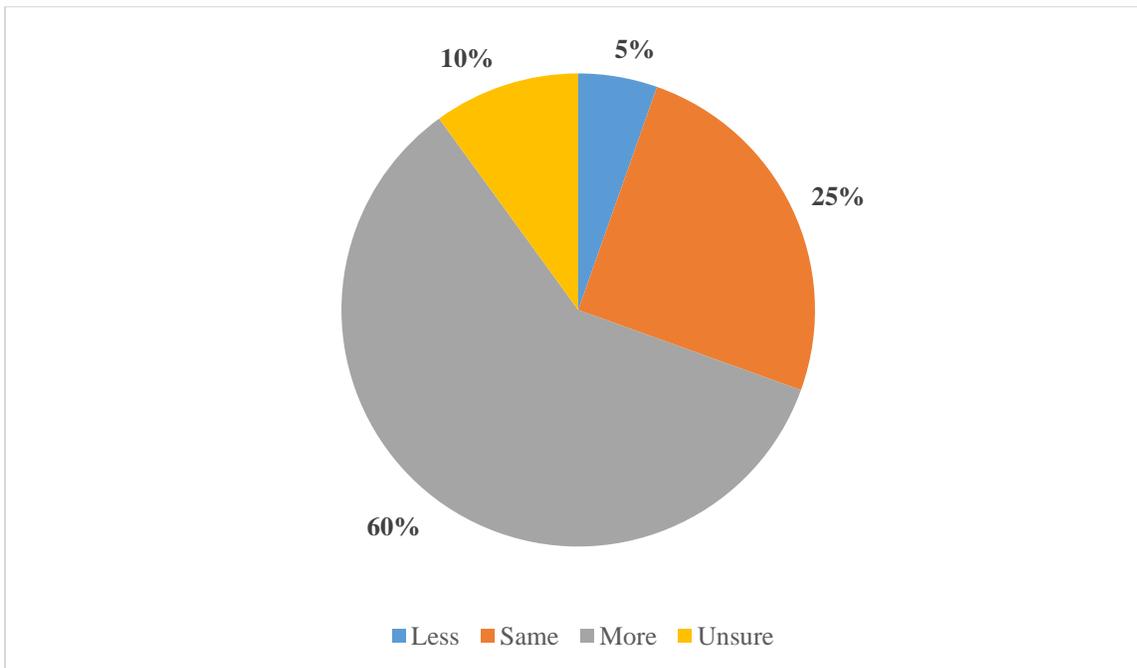


Figure 45: Preferences for how much money should be spent on managing and conserving threatened and endangered species in Michigan by current hunting/fishing participation

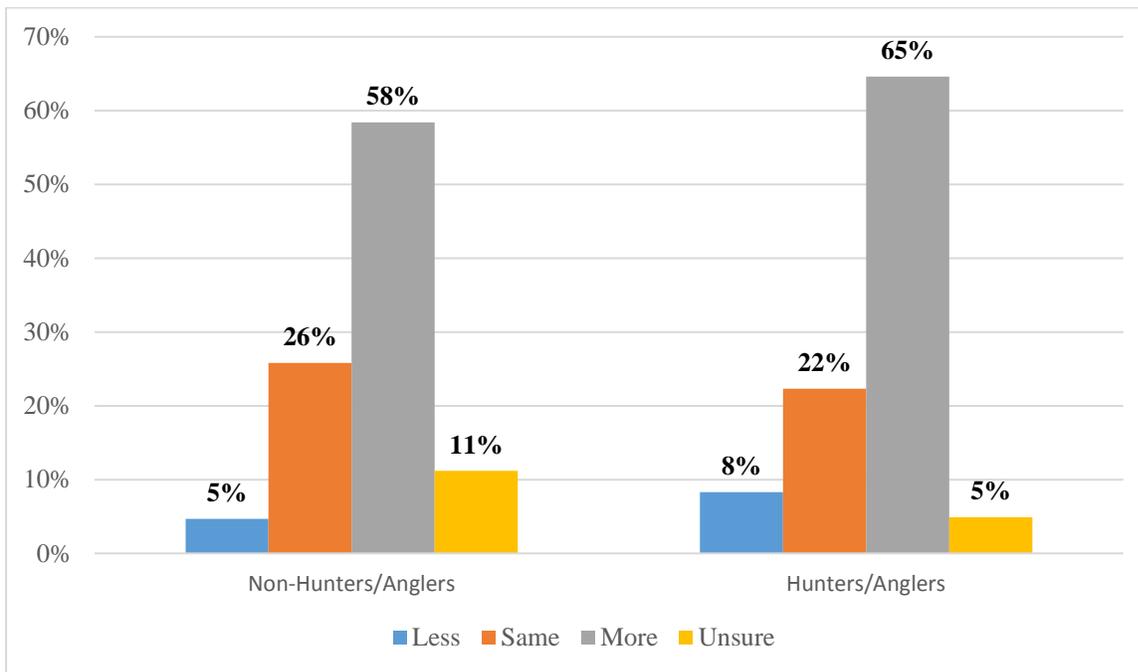


Figure 46: Preferences for how much money should be spent on managing and conserving threatened and endangered species in Michigan by wildlife value orientation

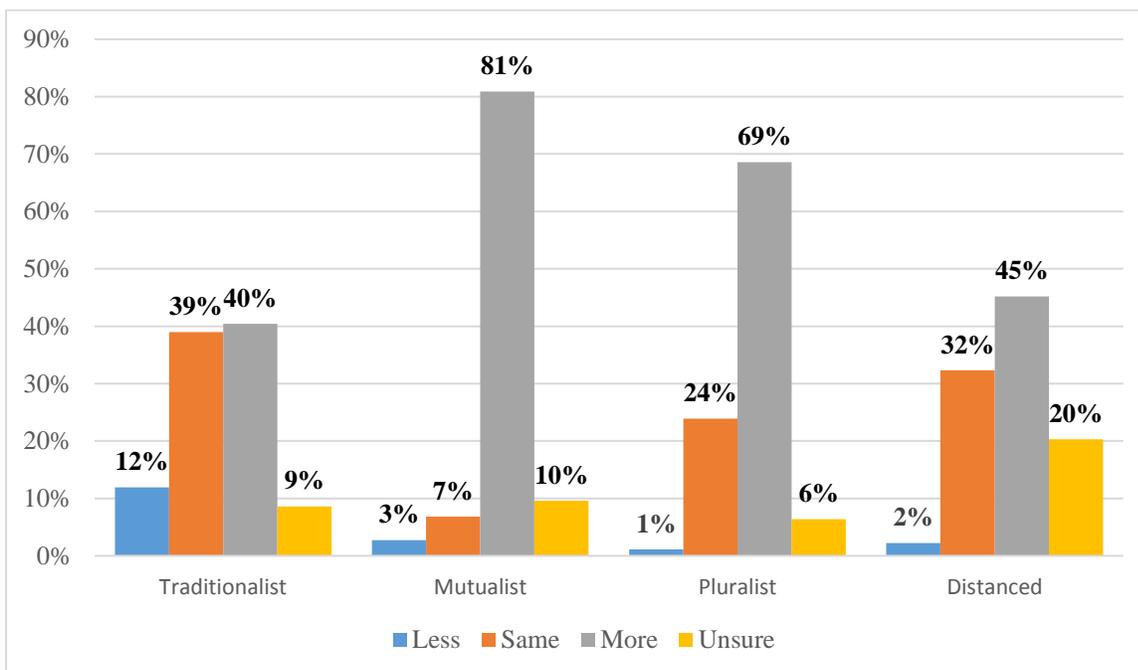


Figure 47: Preferences for how much money should be spent on managing and conserving game species in Michigan

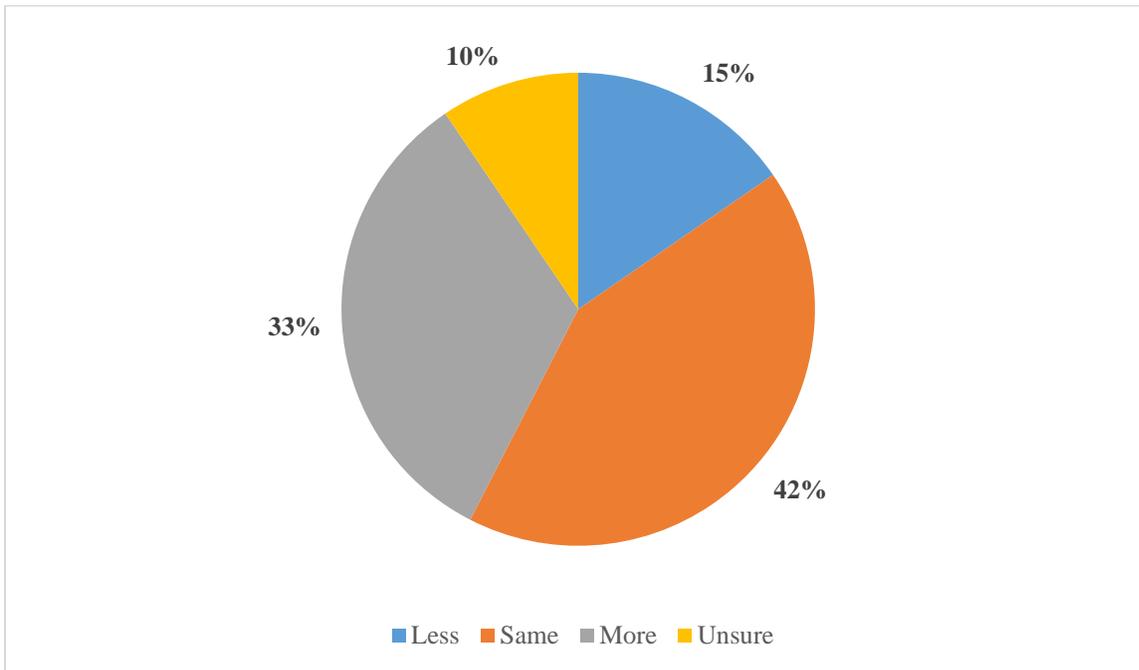


Figure 48: Preferences for how much money should be spent on managing and conserving game species in Michigan by current hunting/fishing participation

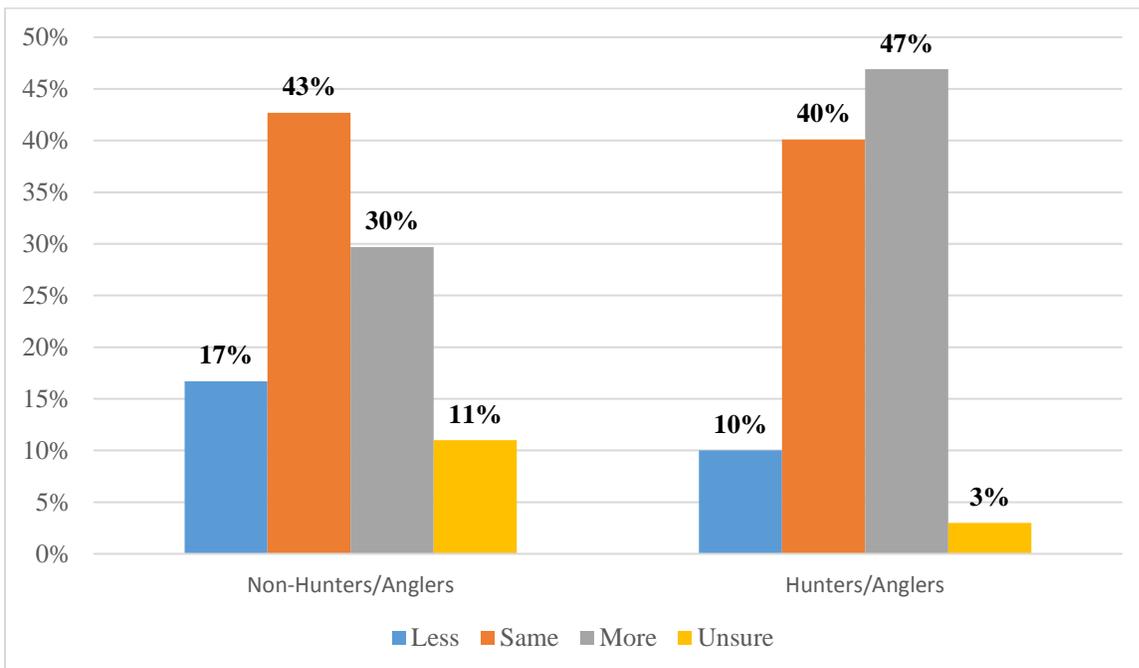
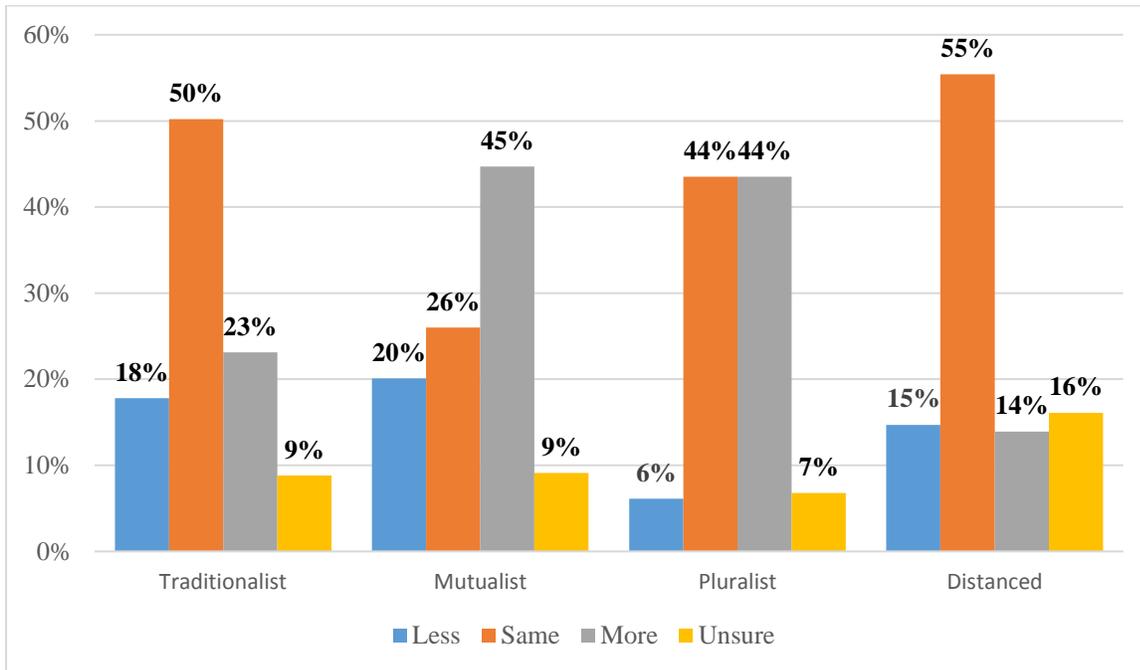


Figure 49: Preferences for how much money should be spent on managing and conserving game species in Michigan by wildlife value orientation



Perceptions of Land Management Strategies for Providing Wildlife Habitat

Respondents were asked their perceptions of several Michigan Department of Natural Resources (DNR) land management strategies to provide habitat for wildlife on public land like State Forests and State Game Areas. These land management strategies were:

- ...purchasing property from willing private sellers,
- ...using intentional, controlled burning (fires) on grasslands to keep trees out,
- ...cutting trees to change the age or type of trees that grow in our forests,
- ...limiting recreational use that might negatively impact habitat, and
- ...planting farm crops/food plots.

Responses were measured as “strongly disagree”, “slightly disagree”, “neither”, “slightly agree”, and “strongly agree”. Results are described below for all residents, by current hunting/fishing participation, and by wildlife value orientation.

Figure 50: Agreement with land management strategies that Michigan DNR should use to provide wildlife habitat

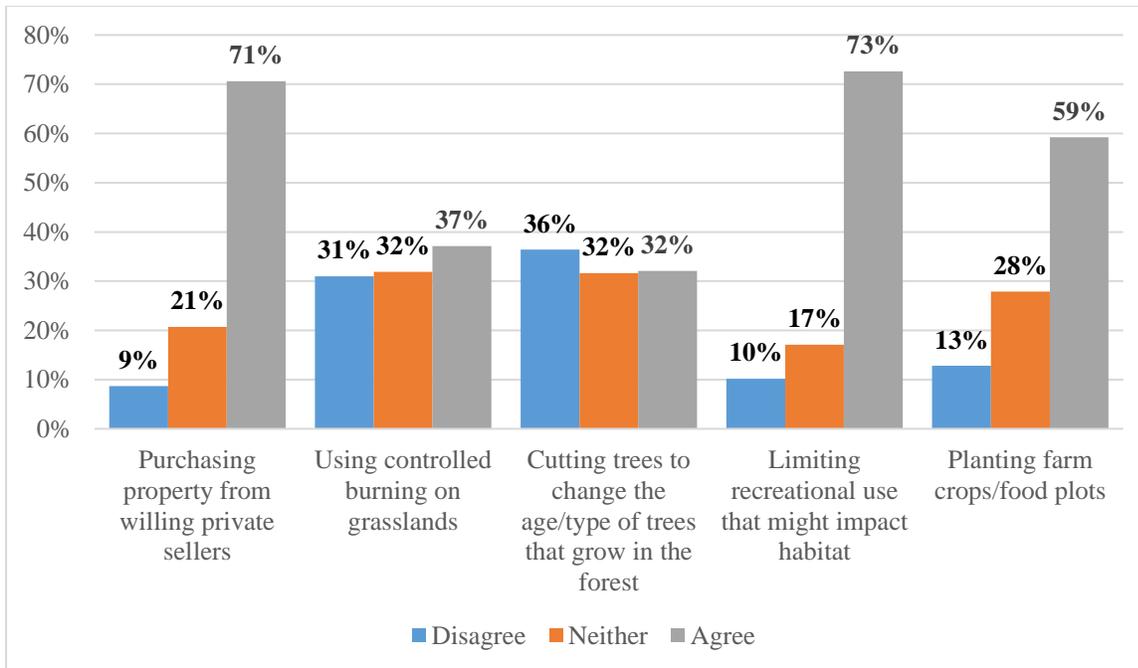


Figure 51: Agreement that Michigan DNR should provide habitat by purchasing property from willing private sellers by current hunting/fishing participation

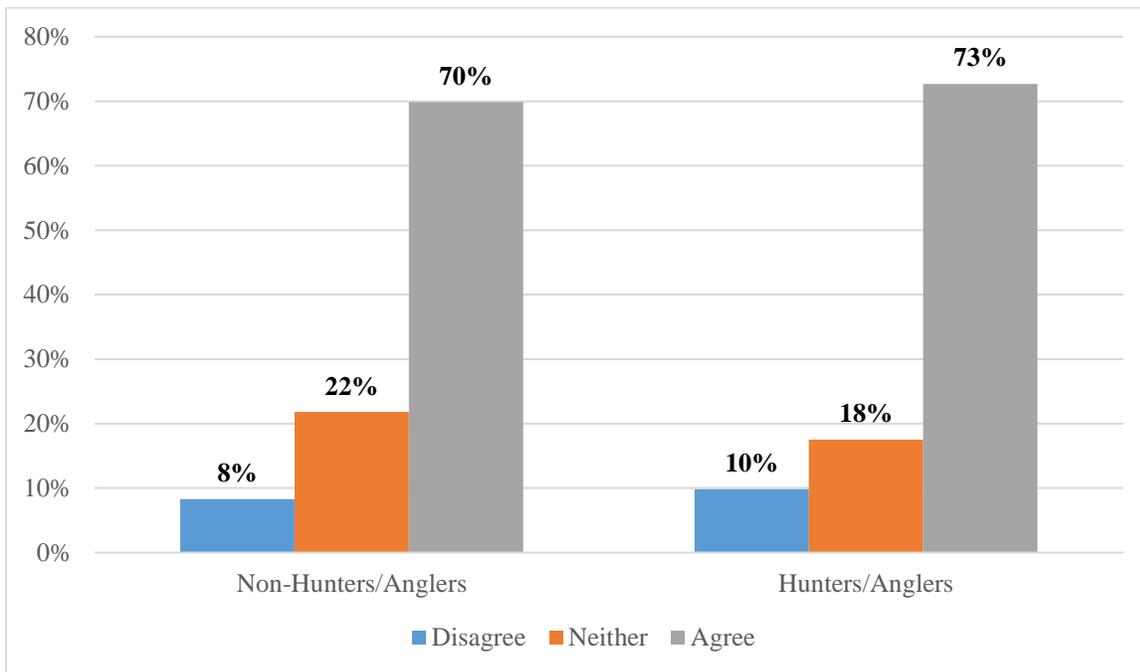


Figure 52: Agreement that Michigan DNR should provide habitat by purchasing property from willing private sellers by wildlife value orientation

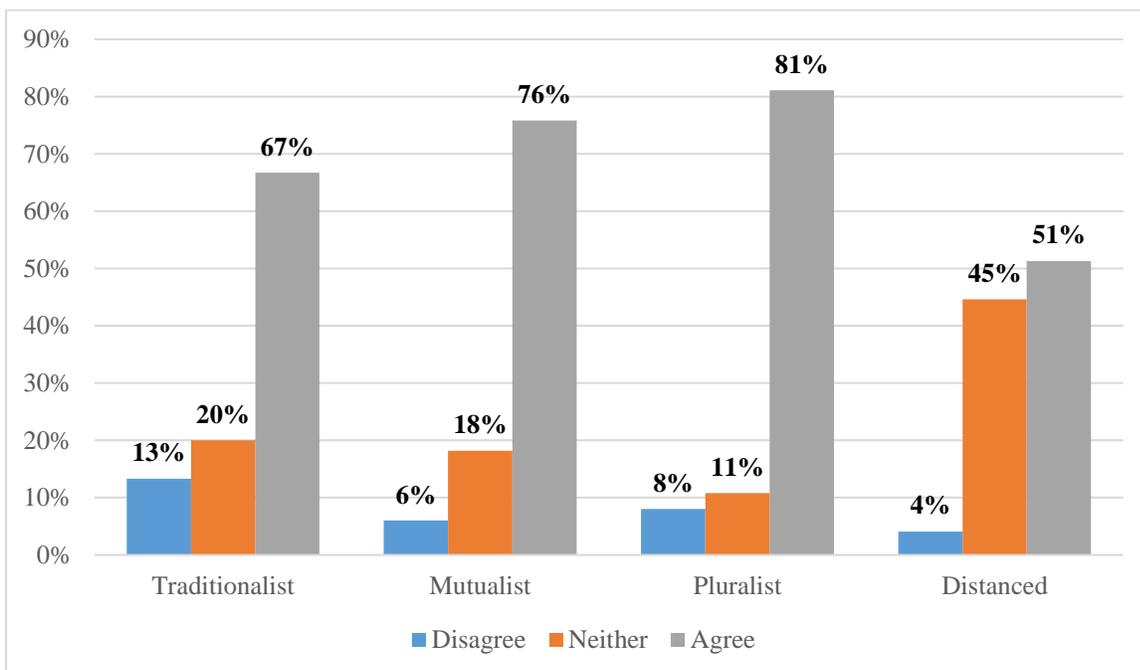


Figure 53: Agreement that Michigan DNR should provide habitat by using intentional, controlled burning on grasslands to keep trees out by current hunting/fishing participation

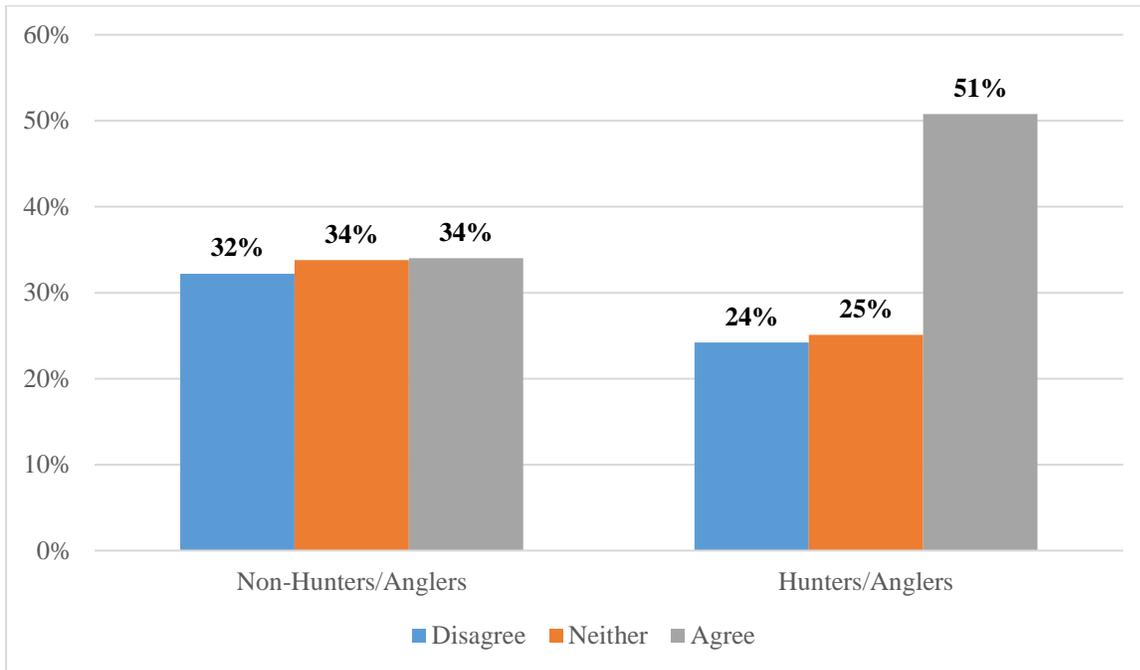


Figure 54: Agreement that Michigan DNR should provide habitat by using intentional, controlled burning on grasslands to keep trees out by wildlife value orientation

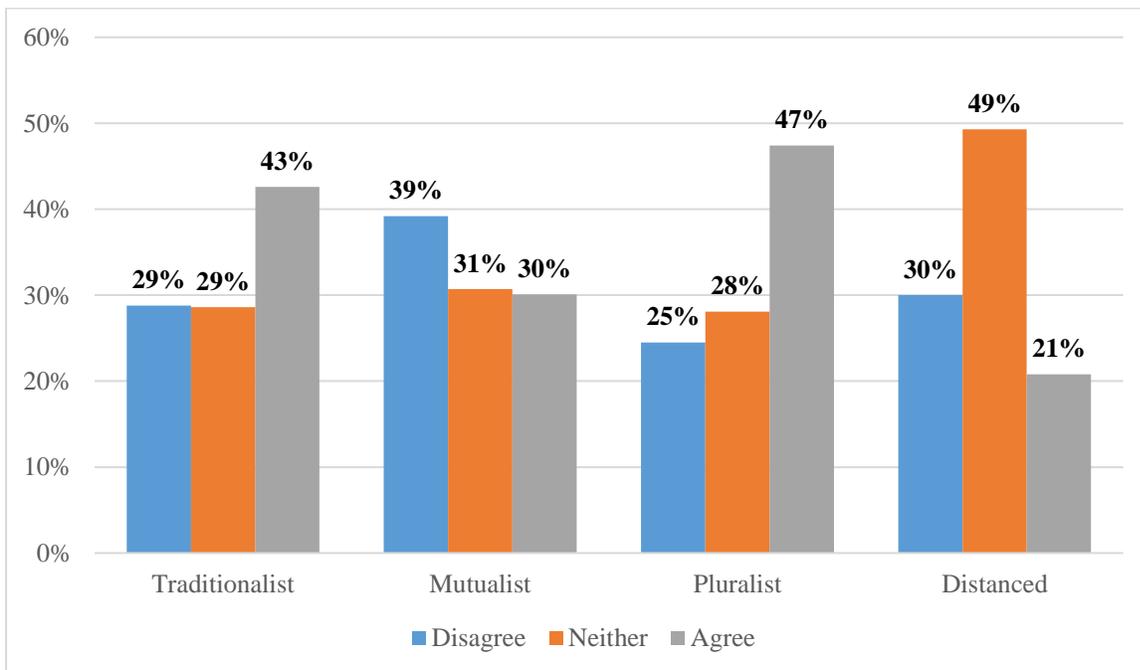


Figure 55: Agreement that Michigan DNR should provide habitat by cutting trees to change the age or type of trees that grow in our forests by current hunting/fishing participation

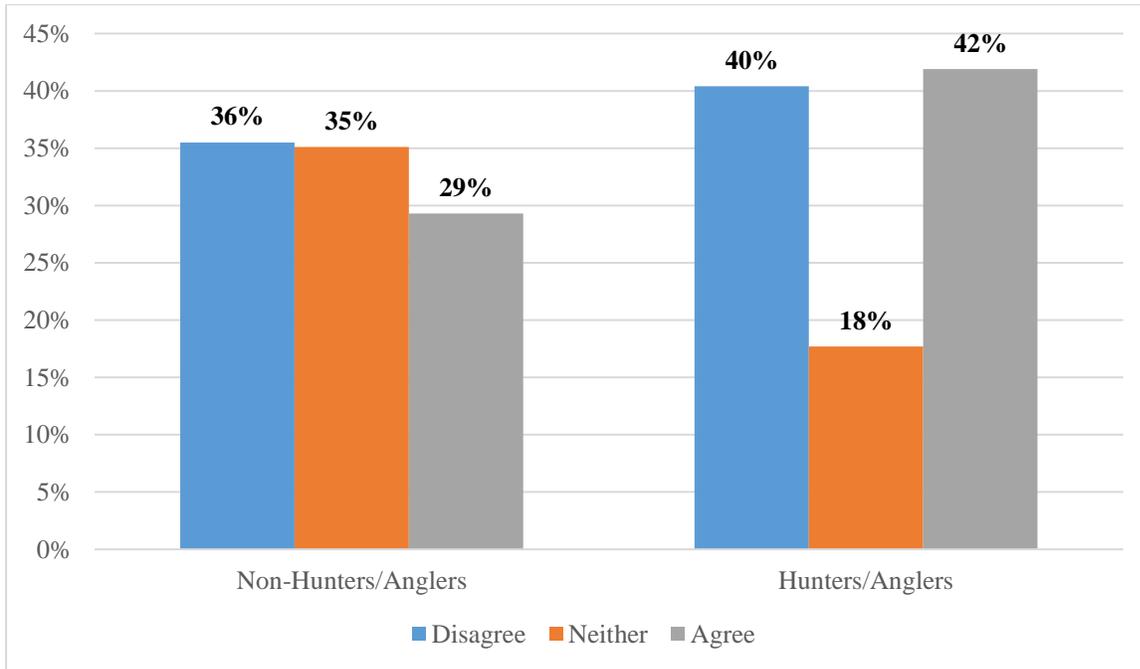


Figure 56: Agreement that Michigan DNR should provide habitat by cutting trees to change the age or type of trees that grow in our forests by wildlife value orientation

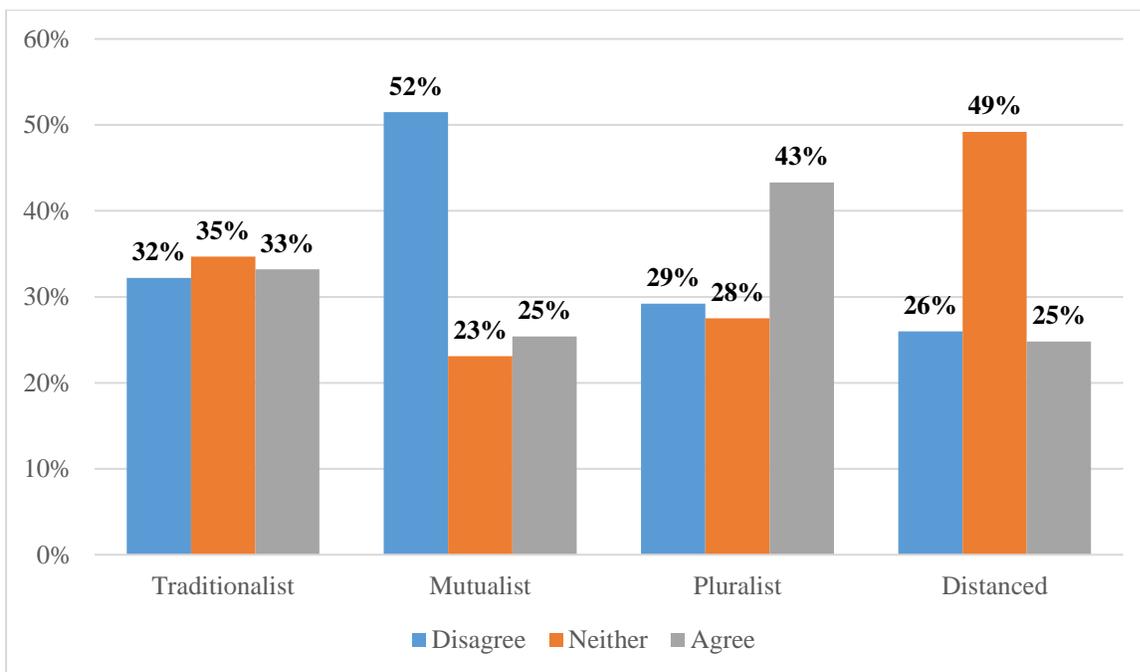


Figure 57: Agreement that Michigan DNR should provide habitat by limiting recreational use that might negatively impact habitat by current hunting/fishing participation

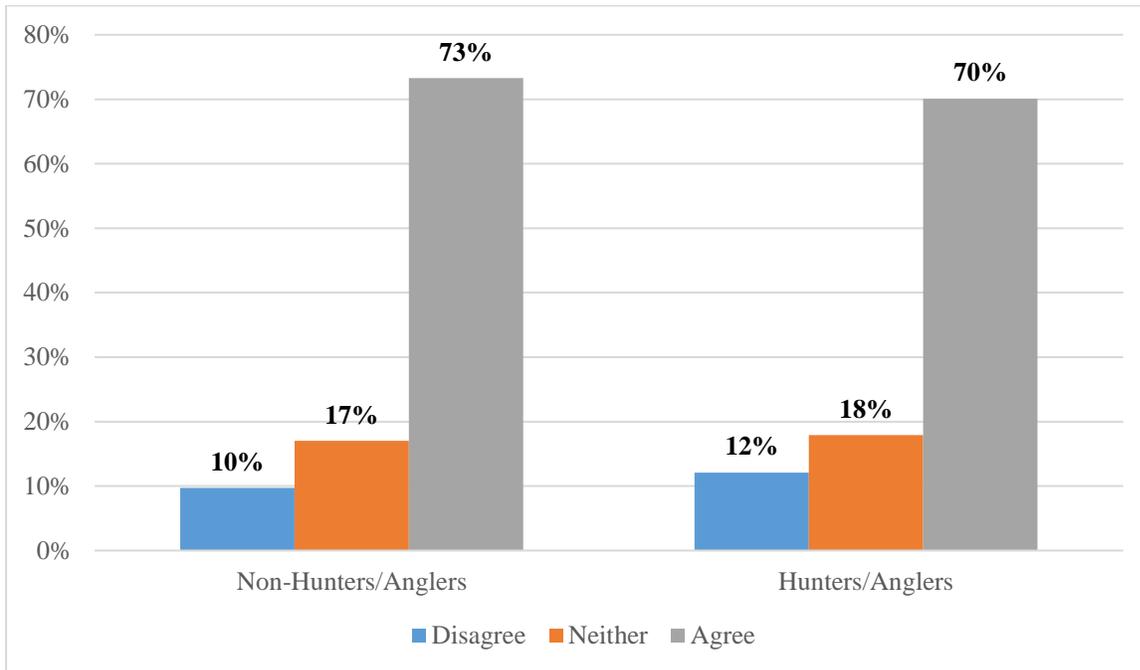


Figure 58: Agreement that Michigan DNR should provide habitat by limiting recreational use that might negatively impact habitat by wildlife value orientation

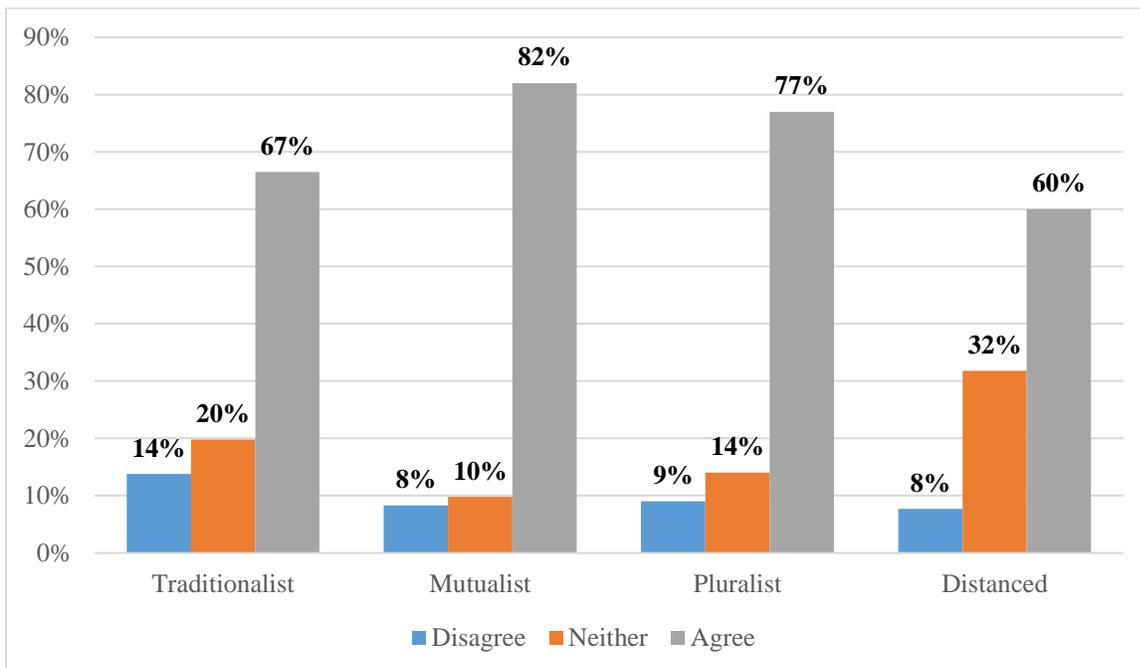


Figure 59: Agreement that Michigan DNR should provide habitat by planting farm crops/food plots by current hunting/fishing participation

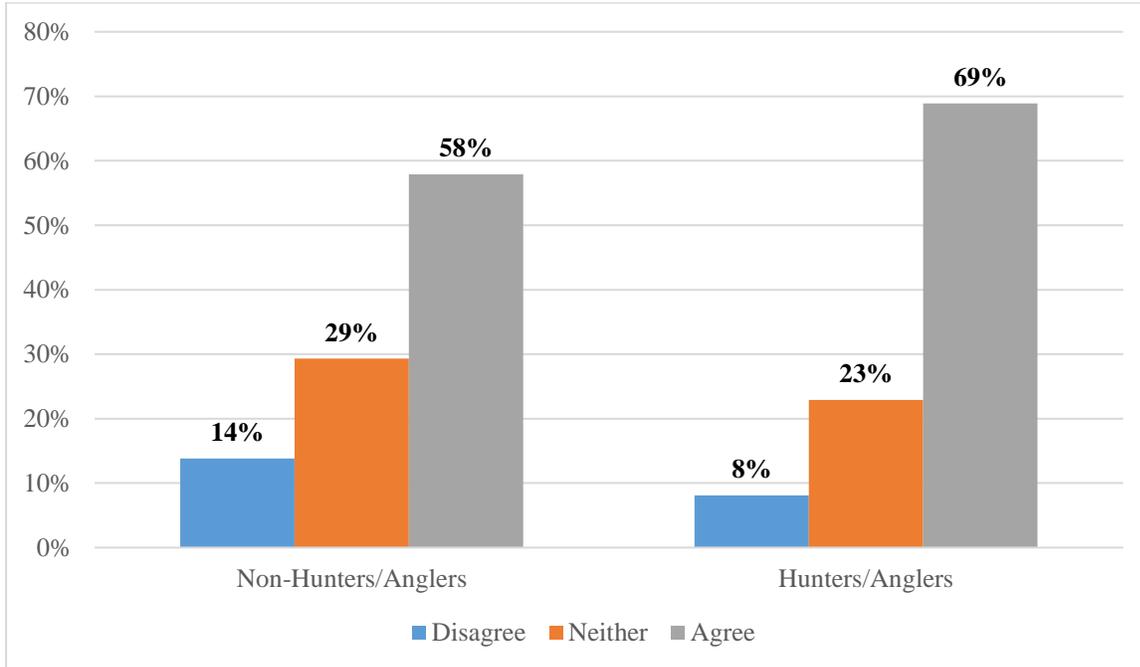
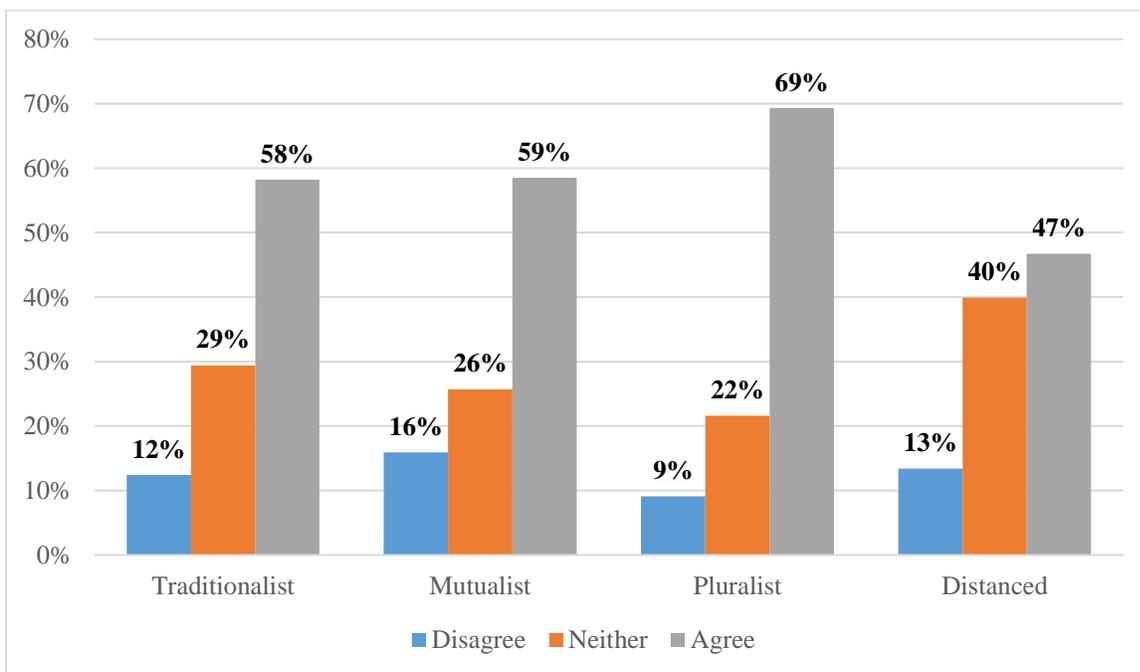


Figure 60: Agreement that Michigan DNR should provide habitat by planting farm crops/food plots by wildlife value orientation



Interest in Public Involvement with Wildlife Management

Respondents were asked their interest in being involved in several ways with wildlife management in Michigan. These involvement approaches included:

- ...provide input regarding government programs that affect wildlife,
- ...support wildlife management by contributing time or money to private foundations or organizations outside of government agencies,
- ...manage my own property to provide wildlife habitat, and
- ...know more about how I can receive money or assistance for managing my property to provide wildlife habitat.

Responses were measured as “strongly disagree”, “slightly disagree”, “neither”, “slightly agree”, and “strongly agree”. Results are described below for all residents, by current hunting/fishing participation, and by wildlife value orientation.

Figure 61: Agreement with how respondents would like to be involved with wildlife management in Michigan

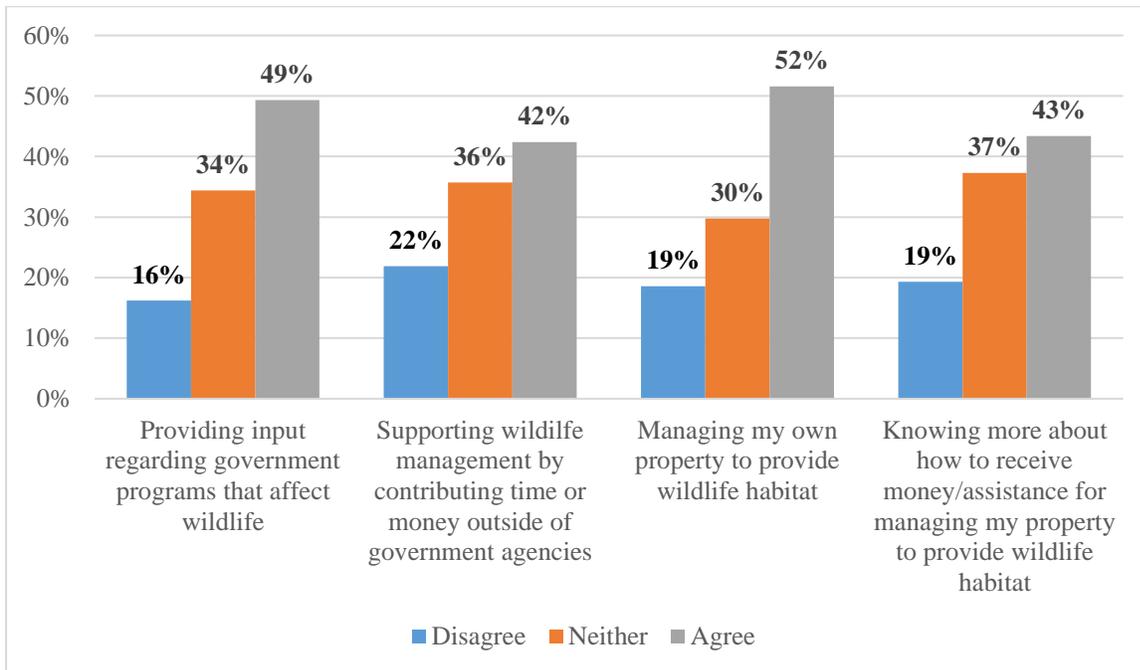


Figure 62: Respondents' agreement that they would like to provide input regarding government programs that affect wildlife by current hunting/fishing participation

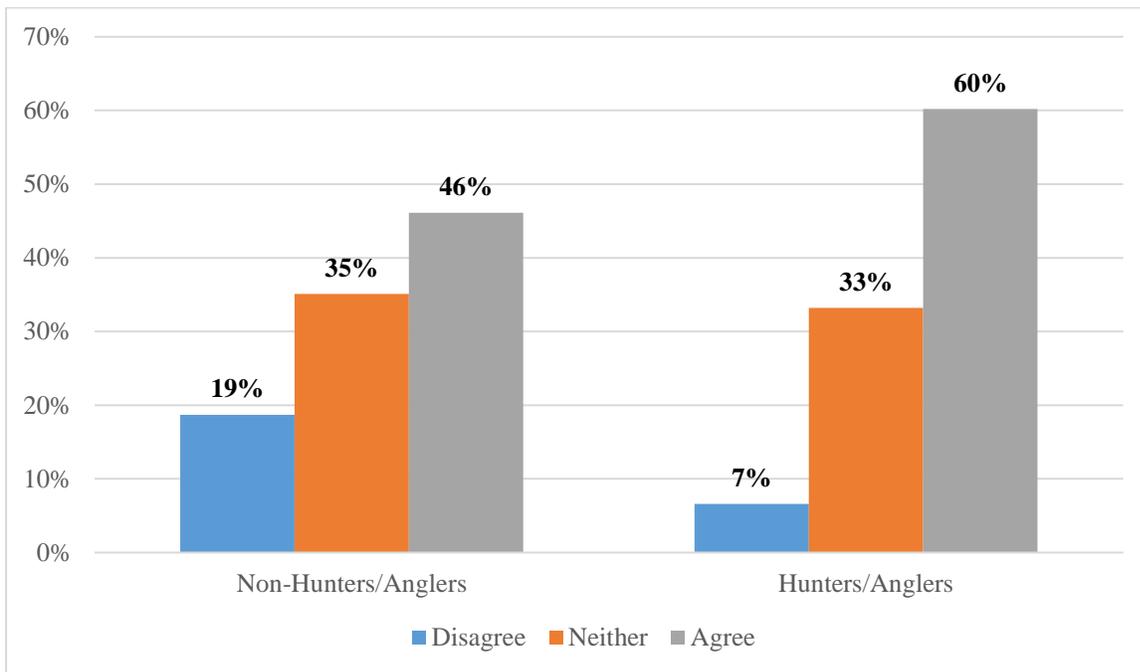


Figure 63: Respondents' agreement that they would like to provide input regarding government programs that affect wildlife by wildlife value orientation

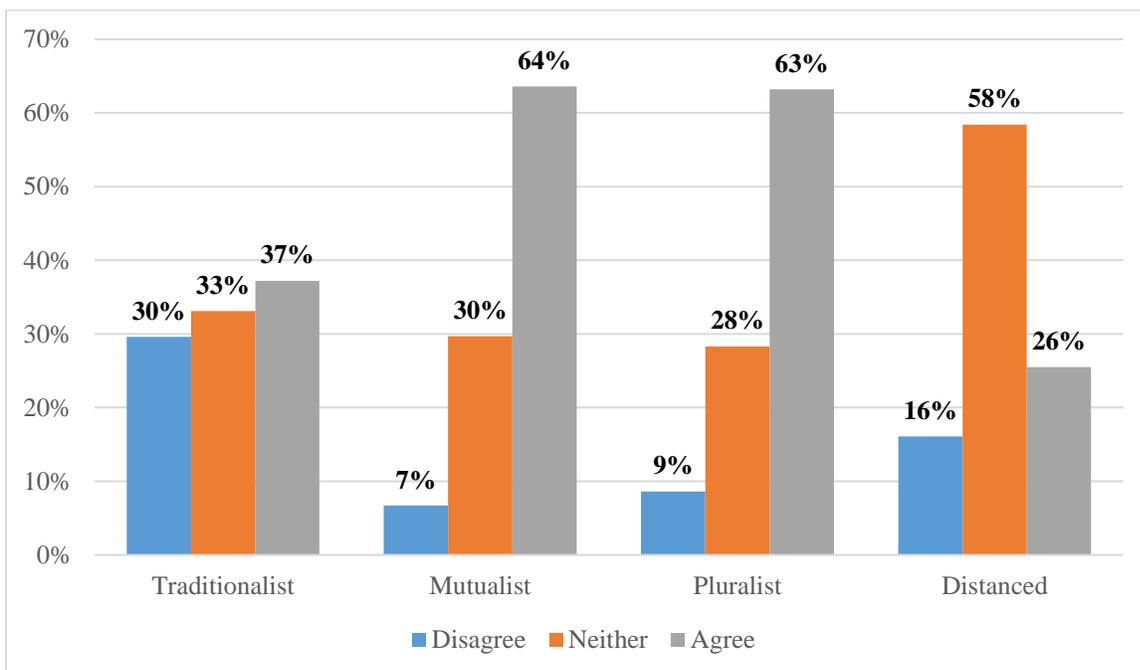


Figure 64: Respondents' agreement that they would like to support wildlife management by contributing time or money to private foundations or organizations outside of government agencies by current hunting/fishing participation

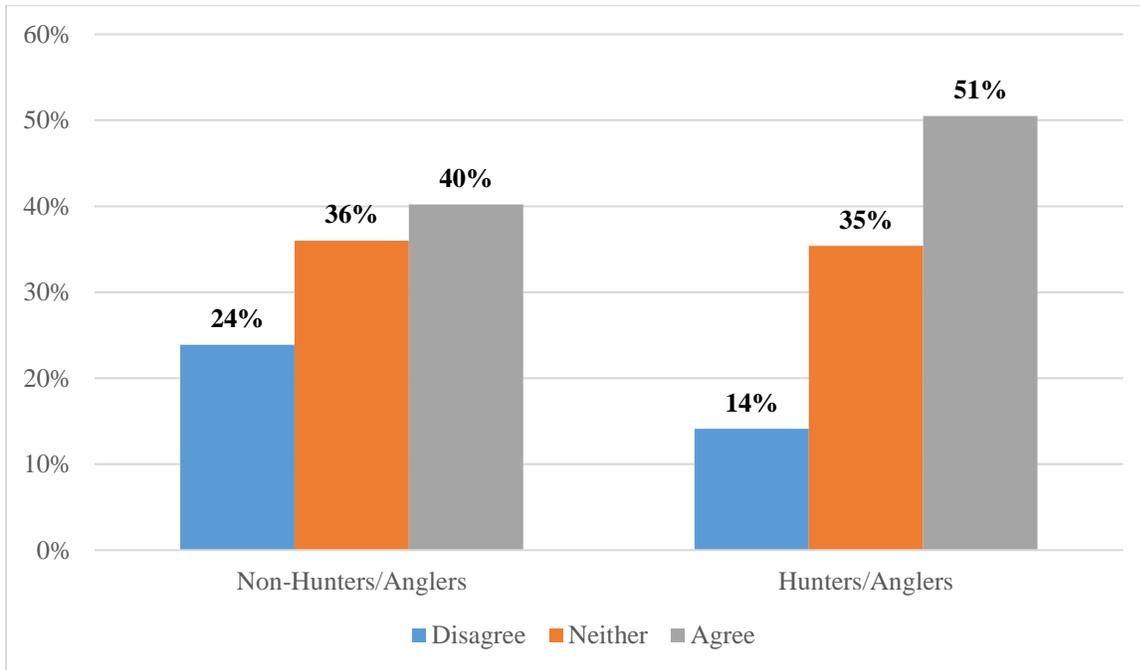


Figure 65: Respondents' agreement that they would like to support wildlife management by contributing time or money to private foundations or organizations outside of government agencies by wildlife value orientation

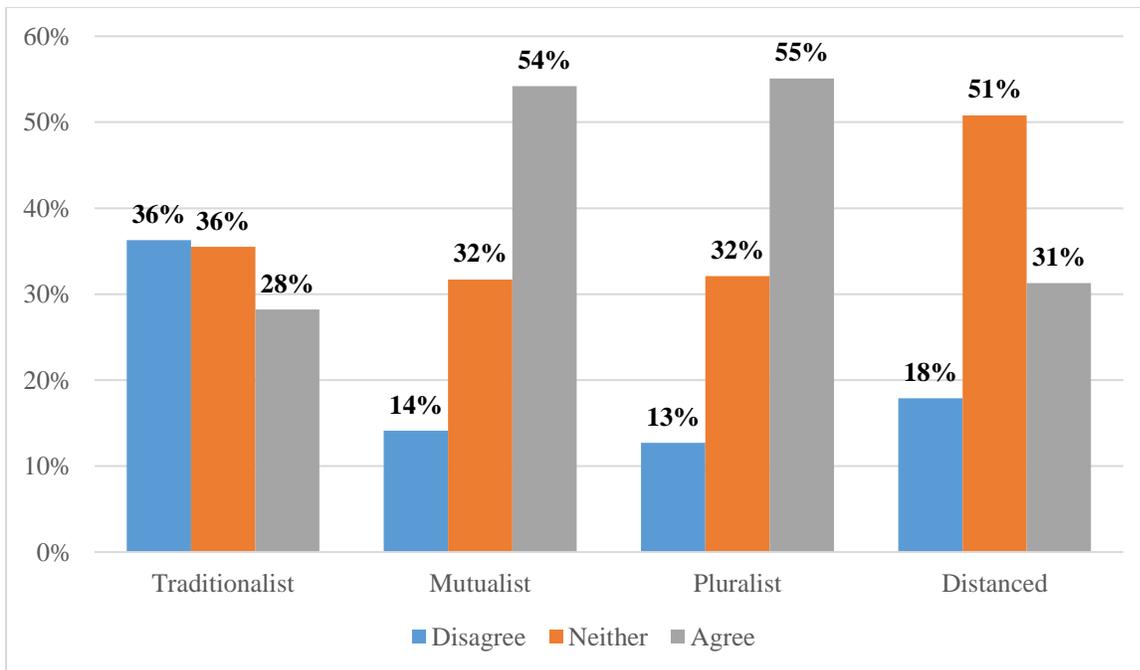


Figure 66: Respondents' agreement that they would like to manage my own property to provide wildlife habitat by current hunting/fishing participation

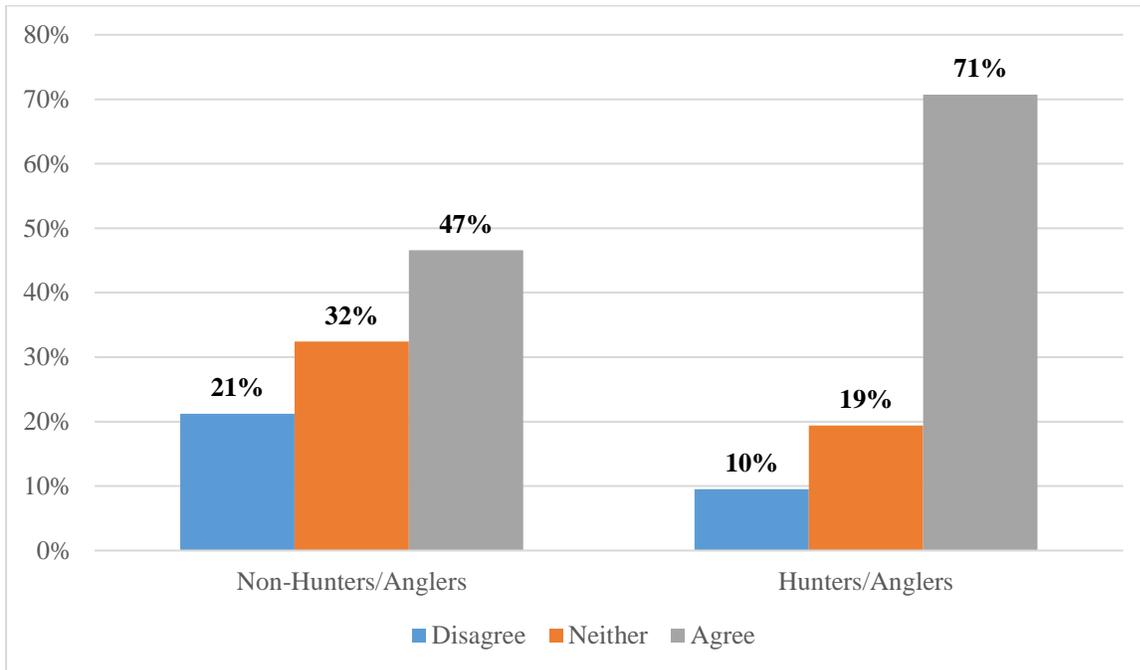


Figure 67: Respondents' agreement that they would like to manage my own property to provide wildlife habitat to provide wildlife habitat by wildlife value orientation

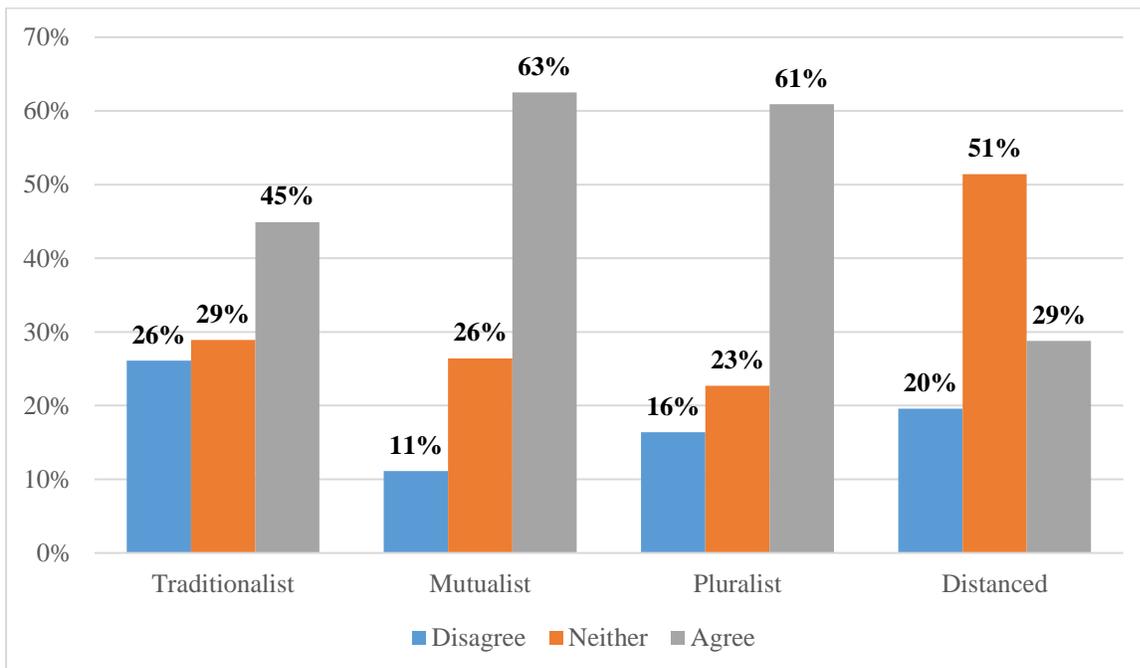


Figure 68: Respondents' agreement that they would like to know more about how they can receive money or assistance for managing my property to provide wildlife habitat by current hunting/fishing participation

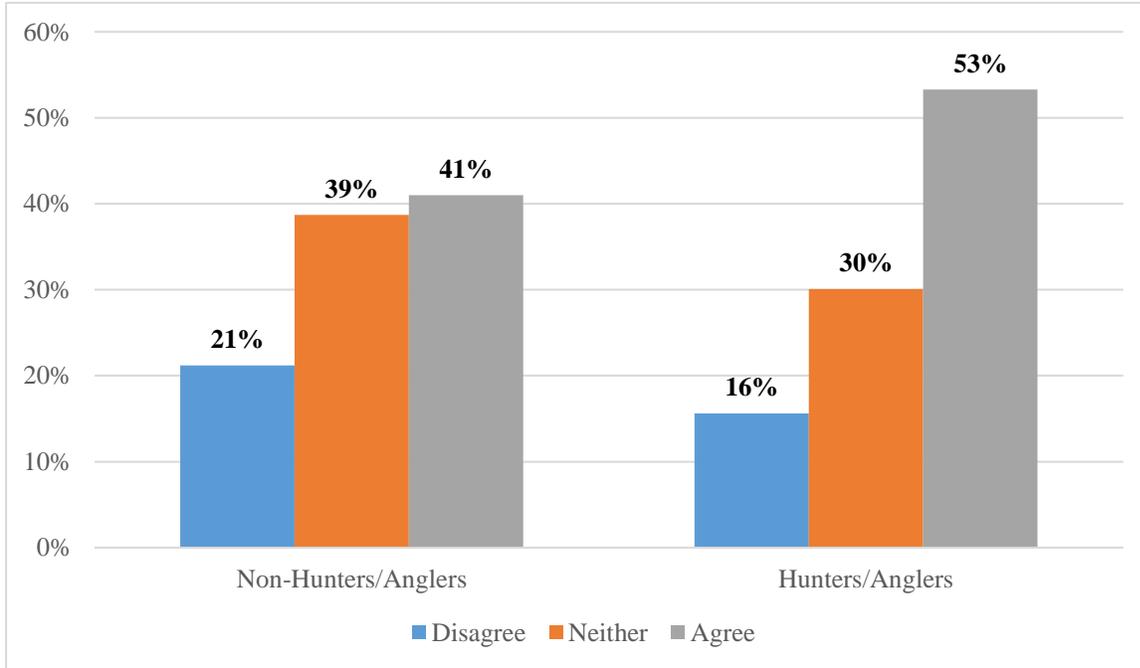
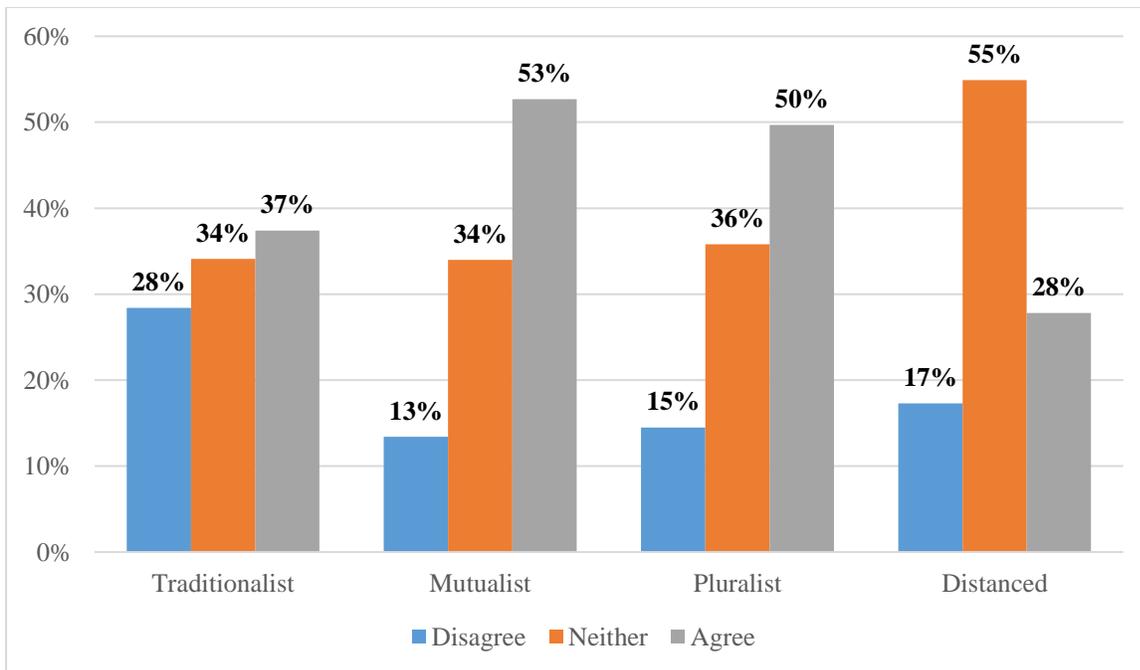


Figure 69: Respondents' agreement that they would like to know more about how they can receive money or assistance for managing my property to provide wildlife habitat by wildlife value orientation



Descriptive Tables for Items by Wildlife Value Orientation and Current Hunting/Fishing Participation

The information contained in the following tables below provides a more detailed look at the findings in the figures above. Responses to each item are provided below, and a copy of the survey instrument used to measure each of these items is available in Appendix B.

Table 1: Percent of respondents who believed that they shared similar values to their state fish and wildlife agency

	Strongly Disagree	Slightly Disagree	Neither	Slightly Agree	Strongly Agree
All Respondents	3.3%	7.9%	26.0%	41.7%	21.2%
Non-Hunters/Anglers	3.5%	7.6%	28.4%	43.0%	17.6%
Hunters/Anglers	2.6%	8.8%	16.7%	36.8%	35.1%
Traditionalists	1.6%	8.0%	22.5%	45.5%	22.5%
Mutualists	6.3%	10.0%	23.8%	41.9%	18.1%
Pluralists	0.0%	6.3%	15.1%	45.2%	33.3%
Distanced	5.3%	5.3%	57.3%	26.7%	5.3%

Table 2: Percent of respondents who believed that we should strive for a society that emphasizes environmental protection over economic growth

	Strongly Disagree	Slightly Disagree	Neither	Slightly Agree	Strongly Agree
All Respondents	4.5%	11.4%	17.3%	29.9%	36.9%
Non-Hunters/Anglers	4.6%	10.3%	17.4%	30.5%	37.2%
Hunters/Anglers	3.5%	15.7%	16.5%	27.8%	36.5%
Traditionalists	8.5%	22.9%	22.9%	28.7%	17.0%
Mutualists	2.5%	4.3%	10.5%	25.3%	57.4%
Pluralists	3.2%	4.0%	14.3%	31.7%	46.8%
Distanced	0.0%	10.7%	24.0%	40.0%	25.3%

Table 3: Percent of respondents who believed that private property rights are more important than protecting declining or endangered fish and wildlife

	Strongly Disagree	Slightly Disagree	Neither	Slightly Agree	Strongly Agree
All Respondents	26.4%	31.8%	20.3%	14.4%	7.0%
Non-Hunters/Anglers	25.9%	31.2%	22.0%	14.2%	6.7%
Hunters/Anglers	28.9%	34.2%	14.0%	14.9%	7.9%
Traditionalists	9.6%	31.0%	24.6%	21.9%	12.8%
Mutualists	52.8%	28.8%	10.4%	5.5%	2.5%
Pluralists	19.8%	32.5%	23.0%	18.3%	6.3%
Distanced	21.6%	39.2%	27.0%	9.5%	2.7%

Table 4: Percent of respondents who believed that local communities should have more control over the management of fish and wildlife

	Strongly Disagree	Slightly Disagree	Neither	Slightly Agree	Strongly Agree
All Respondents	4.1%	15.4%	29.5%	37.0%	13.9%
Non-Hunters/Anglers	2.7%	15.3%	30.1%	38.6%	13.2%
Hunters/Anglers	9.6%	16.5%	27.0%	30.4%	16.5%
Traditionalists	5.8%	14.3%	23.3%	45.5%	11.1%
Mutualists	5.5%	20.9%	31.9%	28.8%	12.9%
Pluralists	1.6%	7.9%	22.8%	42.5%	25.2%
Distanced	1.3%	18.7%	52.0%	24.0%	4.0%

Table 5: Percent of respondents who believed that the earth is getting warmer mostly because of human activity such as burning fossil fuels

	Strongly Disagree	Slightly Disagree	Neither	Slightly Agree	Strongly Agree
All Respondents	12.3%	9.9%	14.9%	24.2%	38.7%
Non-Hunters/Anglers	11.4%	9.1%	16.2%	24.4%	38.8%
Hunters/Anglers	14.9%	13.2%	9.6%	23.7%	38.6%
Traditionalists	25.5%	14.9%	17.0%	20.7%	21.8%
Mutualists	4.9%	6.1%	11.0%	25.8%	52.1%
Pluralists	9.6%	8.0%	12.0%	25.6%	44.8%
Distanced	0.0%	8.0%	22.7%	26.7%	42.7%

Table 6: Percent of respondents who believed that wolves that kill livestock should be lethally removed

	Strongly Disagree	Slightly Disagree	Neither	Slightly Agree	Strongly Agree
All Respondents	19.7%	22.6%	22.8%	20.9%	13.9%
Non-Hunters/Anglers	19.7%	23.8%	24.3%	20.4%	11.9%
Hunters/Anglers	20.0%	18.3%	17.4%	22.6%	21.7%
Traditionalists	10.1%	21.7%	19.0%	27.5%	21.7%
Mutualists	36.0%	26.2%	22.0%	12.2%	3.7%
Pluralists	12.6%	18.1%	24.4%	24.4%	20.5%
Distanced	20.0%	24.0%	32.0%	17.3%	6.7%

Table 7: Percent of respondents who believed that if a black bear attacks a person, that bear should be lethally removed regardless of the circumstances

	Strongly Disagree	Slightly Disagree	Neither	Slightly Agree	Strongly Agree
All Respondents	16.8%	25.7%	15.7%	23.6%	18.2%
Non-Hunters/Anglers	17.4%	26.1%	17.0%	22.0%	17.4%
Hunters/Anglers	13.8%	23.3%	11.2%	30.2%	21.6%
Traditionalists	10.2%	24.1%	9.1%	27.3%	29.4%
Mutualists	32.1%	30.2%	18.5%	11.7%	7.4%
Pluralists	7.9%	23.8%	13.5%	32.5%	22.2%
Distanced	15.8%	22.4%	30.3%	25.0%	6.6%

Table 8: Percent of respondents who believed that coyotes that kill pets in residential areas should be lethally removed

	Strongly Disagree	Slightly Disagree	Neither	Slightly Agree	Strongly Agree
All Respondents	12.3%	19.3%	18.7%	30.4%	19.3%
Non-Hunters/Anglers	12.6%	19.5%	20.6%	30.5%	16.7%
Hunters/Anglers	10.4%	18.3%	11.3%	30.4%	29.6%
Traditionalists	6.3%	18.0%	11.6%	37.0%	27.0%
Mutualists	27.3%	22.4%	23.6%	19.3%	7.5%
Pluralists	4.8%	16.0%	13.6%	38.4%	27.2%
Distanced	8.0%	21.3%	34.7%	24.0%	12.0%

Table 9: Percent of respondents who believed that current funding for fish and wildlife management is provided by hunting and fishing license fees vs. public tax dollars

	Entirely by hunting & fishing license fees			Both license fees & public taxes			Entirely by public tax funds
All Respondents	7.8%	4.1%	13.7%	58.4%	9.8%	4.2%	2.0%
Non-Hunters/Anglers	8.2%	3.3%	11.2%	61.0%	10.7%	4.0%	1.6%
Hunters/Anglers	6.1%	7.8%	23.5%	48.7%	6.1%	5.2%	2.6%
Traditionalists	9.2%	3.8%	16.2%	52.4%	11.4%	3.8%	3.2%
Mutualists	6.9%	3.8%	10.1%	61.0%	11.9%	5.7%	0.6%
Pluralists	8.7%	5.5%	15.0%	56.7%	7.9%	3.9%	2.4%
Distanced	5.5%	4.1%	13.7%	68.5%	5.5%	2.7%	0.0%

Table 10: Percent of respondents who believed that future funding for fish and wildlife management should be provided by hunting and fishing license fees vs. public tax dollars

	Entirely by hunting & fishing license fees			Both license fees & public taxes			Entirely by public tax funds
All Respondents	11.4%	3.3%	10.7%	59.6%	9.2%	3.2%	2.6%
Non-Hunters/Anglers	12.1%	3.5%	9.3%	60.5%	8.6%	3.5%	2.6%
Hunters/Anglers	8.8%	2.6%	15.8%	56.1%	12.3%	1.8%	2.6%
Traditionalists	14.4%	4.8%	14.4%	57.8%	5.3%	2.7%	0.5%
Mutualists	10.8%	0.6%	7.0%	60.8%	13.3%	5.1%	2.5%
Pluralists	10.3%	4.0%	7.9%	58.7%	11.9%	1.6%	5.6%
Distanced	6.7%	5.3%	13.3%	62.7%	5.3%	4.0%	2.7%

Table 11: Percent of respondents who trust their federal government

	Almost never	Only some of the time	Most of the time	Almost always
All Respondents	23.8%	54.8%	19.2%	2.2%
Non-Hunters/Anglers	22.9%	56.5%	18.5%	2.1%
Hunters/Anglers	27.0%	48.7%	21.7%	2.6%
Traditionalists	17.1%	60.4%	21.9%	0.5%
Mutualists	33.1%	53.1%	11.9%	1.9%
Pluralists	21.0%	49.2%	23.4%	6.5%
Distanced	25.3%	54.7%	20.0%	0.0%

Table 12: Percent of respondents who trust their state government

	Almost never	Only some of the time	Most of the time	Almost always
All Respondents	13.9%	54.4%	29.0%	2.7%
Non-Hunters/Anglers	14.1%	55.2%	28.2%	2.5%
Hunters/Anglers	13.2%	51.8%	32.5%	2.6%
Traditionalists	11.8%	54.5%	32.6%	1.1%
Mutualists	17.5%	59.4%	20.6%	2.5%
Pluralists	11.9%	48.4%	32.5%	7.1%
Distanced	14.7%	53.3%	32.0%	0.0%

Table 13: Percent of respondents who trust their state fish and wildlife agency

	Almost never	Only some of the time	Most of the time	Almost always
All Respondents	4.8%	36.8%	47.8%	10.6%
Non-Hunters/Anglers	5.1%	38.7%	46.9%	9.3%
Hunters/Anglers	3.5%	29.6%	51.3%	15.7%
Traditionalists	4.3%	36.2%	50.8%	8.6%
Mutualists	5.6%	42.5%	40.6%	11.3%
Pluralists	2.4%	24.8%	56.0%	16.8%
Distanced	8.1%	45.9%	43.2%	2.7%

Table 14: Percent of respondents who were more supportive of hunting because of game being a source of local, organic meat

	No	Yes
All Respondents	88.6%	11.4%
Non-Hunters/Anglers	90.9%	9.1%
Hunters/Anglers	80.5%	19.5%
Traditionalists	89.2%	10.8%
Mutualists	90.1%	9.9%
Pluralists	84.4%	15.6%
Distanced	89.0%	11.0%

Table 15: Percent of respondents who recently started hunting because of game being a source of local, organic meat

	No	Yes
All Respondents	97.6%	2.4%
Non-Hunters/Anglers	99.3%	0.7%
Hunters/Anglers	91.2%	8.8%
Traditionalists	98.9%	1.1%
Mutualists	98.8%	1.2%
Pluralists	93.5%	6.5%
Distanced	100.0%	0.0%

Table 16: Percent of respondents who do not hunt now but are interested in hunting in the future because of game being a source of local, organic meat

	No	Yes
All Respondents	87.3%	12.7%
Non-Hunters/Anglers	88.6%	11.4%
Hunters/Anglers	82.1%	17.9%
Traditionalists	87.6%	12.4%
Mutualists	89.5%	10.5%
Pluralists	81.0%	19.0%
Distanced	91.8%	8.2%

Table 17: Percent of respondents who believe that the Michigan DNR manages natural resources in a scientifically sound manner

	Never	Sometimes	Usually	Always	Unsure
All Respondents	1.1%	17.2%	52.2%	11.8%	17.7%
Non-Hunters/Anglers	1.1%	17.1%	52.4%	10.3%	19.1%
Hunters/Anglers	1.4%	17.2%	52.4%	18.2%	10.9%
Traditionalists	0.7%	16.9%	57.3%	9.6%	15.6%
Mutualists	1.5%	24.1%	43.1%	12.1%	19.1%
Pluralists	1.0%	7.4%	56.0%	20.6%	15.1%
Distanced	1.7%	18.9%	52.8%	2.1%	24.6%

Table 18: Percent of respondents who believe that the Michigan DNR provides adequate opportunities for public participation in natural resource decisions

	Never	Sometimes	Usually	Always	Unsure
All Respondents	4.3%	28.9%	34.9%	9.1%	22.9%
Non-Hunters/Anglers	4.5%	29.5%	33.2%	7.4%	25.4%
Hunters/Anglers	3.7%	26.4%	42.0%	15.9%	12.1%
Traditionalists	2.8%	29.8%	37.7%	7.7%	22.0%
Mutualists	8.0%	32.1%	30.7%	7.2%	22.1%
Pluralists	1.8%	28.1%	33.0%	16.1%	20.9%
Distanced	4.2%	20.9%	39.9%	4.8%	30.1%

Table 19: Percent of respondents who ranked the natural resource management goal of providing recreational opportunities the 1st, 2nd, 3rd, or 4th priority for Michigan DNR

	Ranked 1 st Priority	Ranked 2 nd Priority	Ranked 3 rd Priority	Ranked 4 th Priority	Average Rank
All Respondents	10.0%	25.1%	39.6%	25.3%	2.80
Non-Hunters/Anglers	8.0%	23.5%	41.8%	26.8%	2.87
Hunters/Anglers	17.5%	32.1%	32.2%	18.3%	2.51
Traditionalists	9.4%	32.3%	34.8%	23.5%	2.72
Mutualists	7.0%	18.2%	48.9%	25.9%	2.94
Pluralists	16.4%	27.5%	29.6%	26.5%	2.66
Distanced	7.3%	18.2%	48.2%	26.3%	2.94

Table 20: Percent of respondents who ranked the natural resource management goal of actively promoting the ecological health of Michigan the 1st, 2nd, 3rd, or 4th priority for Michigan DNR

	Ranked 1 st Priority	Ranked 2 nd Priority	Ranked 3 rd Priority	Ranked 4 th Priority	Average Rank
All Respondents	66.6%	18.3%	8.8%	6.3%	1.55
Non-Hunters/Anglers	68.2%	18.4%	8.0%	5.4%	1.51
Hunters/Anglers	59.9%	17.5%	12.3%	10.4%	1.73
Traditionalists	61.5%	16.7%	11.5%	10.4%	1.71
Mutualists	71.7%	17.3%	6.1%	4.8%	1.44
Pluralists	67.0%	19.2%	9.2%	4.5%	1.51
Distanced	67.5%	22.8%	7.0%	2.7%	1.45

Table 21: Percent of respondents who ranked the natural resource management goal of supporting resource development for greater economic growth the 1st, 2nd, 3rd, or 4th priority for Michigan DNR

	Ranked 1 st Priority	Ranked 2 nd Priority	Ranked 3 rd Priority	Ranked 4 th Priority	Average Rank
All Respondents	14.0%	24.8%	25.7%	35.4%	2.83
Non-Hunters/Anglers	13.2%	25.3%	25.9%	35.5%	2.84
Hunters/Anglers	16.9%	22.4%	24.9%	35.7%	2.79
Traditionalists	18.7%	24.7%	26.3%	30.3%	2.68
Mutualists	3.6%	22.8%	24.2%	49.4%	3.19
Pluralists	19.0%	22.4%	27.0%	31.7%	2.71
Distanced	17.4%	33.7%	25.7%	23.3%	2.55

Table 22: Percent of respondents who ranked the natural resource management goal of allowing nature to take its course the 1st, 2nd, 3rd, or 4th priority for Michigan DNR

	Ranked 1 st Priority	Ranked 2 nd Priority	Ranked 3 rd Priority	Ranked 4 th Priority	Average Rank
All Respondents	12.8%	32.6%	23.9%	30.7%	2.73
Non-Hunters/Anglers	12.9%	33.4%	23.1%	30.6%	2.71
Hunters/Anglers	10.7%	29.9%	26.9%	32.5%	2.81
Traditionalists	11.7%	27.9%	25.8%	34.5%	2.83
Mutualists	19.0%	43.1%	20.1%	17.8%	2.37
Pluralists	8.9%	29.7%	29.1%	32.3%	2.85
Distanced	8.2%	26.1%	18.5%	47.3%	3.05

Table 23: Percent of respondents who believe that less, the same, or more time and money should be spent on managing and conserving threatened and endangered species in Michigan

	Much Less	Slightly Less	About the Same	Slightly More	Much More	Unsure
All Respondents	2.5%	2.9%	25.1%	27.2%	32.3%	10.0%
Non-Hunters/Anglers	2.5%	2.2%	25.8%	26.5%	31.9%	11.2%
Hunters/Anglers	2.9%	5.4%	22.3%	30.4%	34.2%	4.9%
Traditionalists	5.6%	6.3%	39.0%	27.4%	13.0%	8.6%
Mutualists	1.0%	1.7%	6.8%	23.9%	57.0%	9.6%
Pluralists	0.0%	1.1%	23.9%	28.6%	40.0%	6.4%
Distanced	2.2%	0.0%	32.3%	31.2%	14.0%	20.3%

Table 24: Percent of respondents who believe that less, the same, or more time and money should be spent on managing and conserving game species in Michigan

	Much Less	Slightly Less	About the Same	Slightly More	Much More	Unsure
All Respondents	5.0%	10.4%	42.2%	17.4%	15.6%	9.4%
Non-Hunters/Anglers	5.2%	11.5%	42.7%	14.9%	14.8%	11.0%
Hunters/Anglers	3.2%	6.8%	40.1%	27.6%	19.3%	3.0%
Traditionalists	4.6%	13.2%	50.2%	16.4%	6.7%	8.8%
Mutualists	8.3%	11.8%	26.0%	17.4%	27.3%	9.1%
Pluralists	1.8%	4.3%	43.5%	23.2%	20.3%	6.8%
Distanced	3.9%	10.8%	55.4%	9.8%	4.1%	16.1%

Table 25: Percent of respondents who agree/disagree that they would like Michigan DNR to provide habitat for wildlife on public land by purchasing property from willing private sellers

	Strongly Disagree	Slightly Disagree	Neither	Slightly Agree	Strongly Agree
All Respondents	3.4%	5.3%	20.7%	45.8%	24.8%
Non-Hunters/Anglers	3.0%	5.3%	21.8%	46.1%	23.8%
Hunters/Anglers	3.9%	5.9%	17.5%	44.4%	28.3%
Traditionalists	4.3%	9.0%	20.0%	44.5%	22.2%
Mutualists	2.4%	3.6%	18.2%	45.2%	30.6%
Pluralists	4.5%	3.5%	10.8%	54.9%	26.2%
Distanced	1.2%	2.9%	44.6%	35.0%	16.3%

Table 26: Percent of respondents who agree/disagree that they would like Michigan DNR to provide habitat for wildlife on public land by using intentional, controlled burning (fires) on grasslands to keep trees out

	Strongly Disagree	Slightly Disagree	Neither	Slightly Agree	Strongly Agree
All Respondents	11.6%	19.4%	31.9%	28.6%	8.5%
Non-Hunters/Anglers	12.1%	20.1%	33.8%	27.5%	6.5%
Hunters/Anglers	8.4%	15.8%	25.1%	34.2%	16.6%
Traditionalists	11.1%	17.7%	28.6%	34.3%	8.3%
Mutualists	17.8%	21.4%	30.7%	24.7%	5.4%
Pluralists	4.7%	19.8%	28.1%	34.3%	13.1%
Distanced	11.6%	18.4%	49.3%	12.8%	8.0%

Table 27: Percent of respondents who agree/disagree that they would like Michigan DNR to provide habitat for wildlife on public land by cutting trees to change the age or type of trees that grow in our forests

	Strongly Disagree	Slightly Disagree	Neither	Slightly Agree	Strongly Agree
All Respondents	16.4%	20.0%	31.6%	25.7%	6.4%
Non-Hunters/Anglers	16.4%	19.1%	35.1%	24.1%	5.2%
Hunters/Anglers	17.0%	23.4%	17.7%	30.8%	11.1%
Traditionalists	13.2%	18.9%	34.7%	27.9%	5.3%
Mutualists	29.2%	22.3%	23.1%	22.5%	2.9%
Pluralists	10.5%	18.7%	27.5%	30.0%	13.3%
Distanced	6.2%	19.8%	49.2%	19.7%	5.1%

Table 28: Percent of respondents who agree/disagree that they would like Michigan DNR to provide habitat for wildlife on public land by limiting recreational use that might negatively impact habitat

	Strongly Disagree	Slightly Disagree	Neither	Slightly Agree	Strongly Agree
All Respondents	2.6%	7.6%	17.1%	39.5%	33.1%
Non-Hunters/Anglers	2.5%	7.2%	17.0%	39.8%	33.5%
Hunters/Anglers	2.6%	9.5%	17.9%	40.2%	29.9%
Traditionalists	4.4%	9.4%	19.8%	45.4%	21.1%
Mutualists	2.1%	6.2%	9.8%	30.1%	51.9%
Pluralists	2.4%	6.6%	14.0%	43.9%	33.1%
Distanced	0.0%	7.7%	31.8%	38.0%	22.5%

Table 29: Percent of respondents who agree/disagree that they would like Michigan DNR to provide habitat for wildlife on public land by planting farm crops/food plots

	Strongly Disagree	Slightly Disagree	Neither	Slightly Agree	Strongly Agree
All Respondents	3.5%	9.3%	27.9%	37.9%	21.3%
Non-Hunters/Anglers	3.6%	10.2%	29.3%	37.1%	19.8%
Hunters/Anglers	2.3%	5.8%	22.9%	40.7%	28.2%
Traditionalists	4.4%	8.0%	29.4%	43.6%	14.6%
Mutualists	4.0%	11.9%	25.7%	30.3%	28.2%
Pluralists	3.2%	5.9%	21.6%	40.9%	28.4%
Distanced	0.4%	13.0%	39.9%	35.3%	11.4%

Table 30: Percent of respondents who agree/disagree they would like to provide input regarding government programs that affect wildlife

	Strongly Disagree	Slightly Disagree	Neither	Slightly Agree	Strongly Agree
All Respondents	6.2%	10.0%	34.4%	35.5%	13.8%
Non-Hunters/Anglers	6.7%	12.0%	35.1%	32.1%	14.0%
Hunters/Anglers	4.7%	1.9%	33.2%	46.4%	13.8%
Traditionalists	12.3%	17.3%	33.1%	32.2%	5.0%
Mutualists	2.1%	4.6%	29.7%	42.5%	21.1%
Pluralists	2.6%	6.0%	28.3%	38.9%	24.3%
Distanced	6.2%	9.9%	58.4%	23.0%	2.5%

Table 31: Percent of respondents who agree/disagree they would like to support wildlife management by contributing time or money to private foundations or organizations outside of government agencies

	Strongly Disagree	Slightly Disagree	Neither	Slightly Agree	Strongly Agree
All Respondents	9.0%	12.9%	35.7%	33.0%	9.4%
Non-Hunters/Anglers	9.1%	14.8%	36.0%	31.1%	9.1%
Hunters/Anglers	8.8%	5.3%	35.4%	39.1%	11.4%
Traditionalists	16.5%	19.8%	35.5%	22.7%	5.5%
Mutualists	4.5%	9.6%	31.7%	42.2%	12.0%
Pluralists	4.2%	8.5%	32.1%	37.8%	17.3%
Distanced	7.9%	10.0%	50.8%	30.9%	0.4%

Table 32: Percent of respondents who agree/disagree they would like to manage their own property to provide wildlife habitat

	Strongly Disagree	Slightly Disagree	Neither	Slightly Agree	Strongly Agree
All Respondents	9.0%	9.6%	29.8%	32.5%	19.1%
Non-Hunters/Anglers	9.8%	11.2%	32.4%	30.5%	16.1%
Hunters/Anglers	6.3%	3.2%	19.4%	40.4%	30.6%
Traditionalists	13.7%	12.4%	28.9%	29.1%	15.8%
Mutualists	5.8%	5.3%	26.4%	35.6%	26.9%
Pluralists	6.3%	10.1%	22.7%	37.3%	23.6%
Distanced	8.6%	11.0%	51.5%	26.0%	2.8%

Table 33: Percent of respondents who agree/disagree they would like to know more about how they can receive money or assistance for managing their property to provide wildlife habitat

	Strongly Disagree	Slightly Disagree	Neither	Slightly Agree	Strongly Agree
All Respondents	10.9%	8.4%	37.3%	29.1%	14.3%
Non-Hunters/Anglers	11.0%	9.2%	38.7%	28.1%	12.9%
Hunters/Anglers	11.0%	5.6%	30.1%	33.0%	20.3%
Traditionalists	16.2%	12.2%	34.1%	28.6%	8.8%
Mutualists	7.6%	5.8%	34.0%	33.8%	18.9%
Pluralists	7.2%	7.3%	35.8%	25.7%	24.0%
Distanced	11.2%	6.1%	54.9%	26.0%	1.8%

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APPENDIX A

Methodology

Data for this study were collected using a self-report survey. The survey instrument is included in Appendix B. The mode of data collection was selected following the review of results from two separate pilot studies during which telephone, mail and email panel methods were tested and compared. A mail survey with an online option was chosen for the final data collection. Mail surveys were administered in all 50 U.S. states between 2017 and 2018. To account for lower than expected response rates for the mail survey, sampling in each state was supplemented using an email panel survey. The email panel method showed similar results to the mail survey method in our pilot studies. Upon completion of the first email panel, analysis showed significant underrepresentation of certain racial and ethnic categories. As a result, one final email panel round of data collection was conducted in an effort to boost response in underrepresented categories. Both email panels were conducted in the Spring of 2018. For final analysis, mail and email panel data were merged for a state and then weighted to better reflect the state's population. Each state was weighted separately with variables including age categories, gender, race/ethnicity categories and participation in hunting and fishing. If a state had opted for a stratified geographic sample, state population estimates were weighted to reflect the relative proportion of the state's population in each stratum. A detailed description of the study methodology can be found at www.wildlifevalues.org.

Data Collection Details for Michigan

For the mail survey, a random sample of 2,987 households in Michigan was obtained from a commercial sampling firm (Survey Sampling International LLC). Sampled households received three mailings: a full survey questionnaire and cover letter (with an option to complete the survey electronically using a unique identification code); a follow-up reminder postcard; and a second full mailing including the survey questionnaire and cover letter. In an attempt to achieve relatively equal representation of males and females, the cover letter requested that the questionnaire be completed by the adult (age 18 or over) in the household who had the most recent birthday. Our sampling design also over-sampled those under age 35 and under-sampled those age 55 and older to help correct for the disproportionately high response rates typical among those over 55. A total of 213 usable questionnaires were received (196 paper and 17 online) from respondents contacted by mail. The Post Office returned 179 surveys marked as non-deliverable yielding an overall adjusted response rate of 8% for the mail survey.

An email panel sample of 340 Michigan respondents was recruited by a commercial sampling firm (Qualtrics LLC). Respondents were recruited via email invitation. Screening criteria were employed to ensure that the sample was representative of gender and age proportions within the Michigan population.

Data Weighting Procedure

Upon the completion of data collection, responses were weighted to better reflect the state's population characteristics, including:

- 1) **Race/Ethnicity Categories** using estimates compiled by the Henry J. Kaiser Foundation based on the U.S. Census Bureau's 2016 American Community Survey;
- 2) **Participation in fish and wildlife-related recreation** using estimates obtained from the U.S. Fish and Wildlife Service's 2011 National Survey of Fishing, Hunting, and Wildlife-Associated Recreation;
- 3) **Gender** using estimates from the U.S. Census Bureau's 2016 American Community Survey; and
- 4) **Age Category** using estimates from the U.S. Census Bureau's 2016 American Community Survey.

APPENDIX B

Survey Instrument

Management of Fish and Wildlife in the United States

This survey is for all citizens of your state. Even if you know little about fish and wildlife, your opinions are needed!

If preferred, this survey may be completed online at warnercnr.colostate.edu/fish-wildlifesurveys

Access Code: 00000.

In this survey, when we refer to “fish and wildlife”, we do not mean animals kept as pets or those raised for other domestic purposes (e.g., farm animals). Please keep this in mind when responding.

Q1. Below is a series of statements about fish and wildlife and the environment. There are no right or wrong answers. Please indicate the extent to which you disagree or agree by selecting one answer for each statement.

	Strongly Disagree	Slightly Disagree	Neither	Slightly Agree	Strongly Agree
With respect to the management of fish and wildlife, I feel that my state fish and wildlife agency shares similar values to me.	<input type="radio"/>				
Wolves that kill livestock should be lethally removed.	<input type="radio"/>				
We should strive for a society that emphasizes environmental protection over economic growth.	<input type="radio"/>				
If a black bear attacks a person, that bear should be lethally removed regardless of the circumstances.	<input type="radio"/>				
Private property rights are more important than protecting declining or endangered fish and wildlife.	<input type="radio"/>				
Local communities should have more control over the management of fish and wildlife.	<input type="radio"/>				
The earth is getting warmer mostly because of human activity such as burning fossil fuels.	<input type="radio"/>				
Coyotes that kill pets in residential areas should be lethally removed.	<input type="radio"/>				

Q2. The following statements refer to your state as a whole. Please indicate the extent to which you disagree or agree by selecting one answer for each statement.

	Strongly Disagree	Slightly Disagree	Neither	Slightly Agree	Strongly Agree
In this state, if someone acts in an inappropriate way, others will strongly disapprove.	<input type="radio"/>				
In this state, there are clear expectations for how people should act in most situations.	<input type="radio"/>				
People agree upon what behaviors are appropriate or inappropriate in most situations in this state.	<input type="radio"/>				

Q3. People sometimes talk about what the aims of this country should be for the next ten years. Below are some of the goals that different people would give top priority. Which two of these would you, yourself, consider most important? Please check *TWO* boxes.

Maintaining order in the nation.	<input type="checkbox"/>
Giving people more say in important government decisions.	<input type="checkbox"/>
Fighting rising prices.	<input type="checkbox"/>
Protecting freedom of speech.	<input type="checkbox"/>

Q4. Below are statements that represent a variety of ways people feel about fish and wildlife. Please indicate the extent to which you disagree or agree by selecting one answer for each statement.

	Strongly Disagree	Moderately Disagree	Slightly Disagree	Neither	Slightly Agree	Moderately Agree	Strongly Agree
Humans should manage fish and wildlife populations so that humans benefit.	<input type="radio"/>						
Animals should have rights similar to the rights of humans.	<input type="radio"/>						
We should strive for a world where there's an abundance of fish and wildlife for hunting and fishing.	<input type="radio"/>						
I view all living things as part of one big family.	<input type="radio"/>						
Hunting does not respect the lives of animals.	<input type="radio"/>						
I feel a strong emotional bond with animals.	<input type="radio"/>						
The needs of humans should take priority over fish and wildlife protection.	<input type="radio"/>						
I care about animals as much as I do other people.	<input type="radio"/>						
Fish and wildlife are on earth primarily for people to use.	<input type="radio"/>						
I take great comfort in the relationships I have with animals.	<input type="radio"/>						
I believe that wildlife have intentions.	<input type="radio"/>						
It is acceptable for people to kill wildlife if they think it poses a threat to their property.	<input type="radio"/>						
We should strive for a world where humans and fish and wildlife can live side by side without fear.	<input type="radio"/>						
It is acceptable for people to kill wildlife if they think it poses a threat to their life.	<input type="radio"/>						
I value the sense of companionship I receive from animals.	<input type="radio"/>						
People who want to hunt should be provided the opportunity to do so.	<input type="radio"/>						
Wildlife are like my family and I want to protect them.	<input type="radio"/>						
I believe that wildlife have minds of their own.	<input type="radio"/>						
It is acceptable for people to use fish and wildlife in research even if it may harm or kill some animals.	<input type="radio"/>						
It would be more rewarding for me to help animals rather than people.	<input type="radio"/>						
Hunting is cruel and inhumane to the animals.	<input type="radio"/>						
I believe that wildlife appear to experience emotions.	<input type="radio"/>						

Q5a. How do you think your state fish and wildlife agency is currently funded?

Select one point on the scale below to indicate your response.

Entirely by Hunting & Fishing License Fees		Equally by Hunting & Fishing License Fees & Public Tax Funds			Entirely by Public Tax Funds	
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Q5b. How should your state fish and wildlife agency be funded in the future?

Select one point on the scale below to indicate your response.

Entirely by Hunting & Fishing License Fees		Equally by Hunting & Fishing License Fees & Public Tax Funds			Entirely by Public Tax Funds	
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Q6. Please respond to the following questions about the extent to which you trust certain forms of government. Select one answer for each question.

Overall, to what extent do you trust...	Almost Never	Only Some of the Time	Most of the Time	Almost Always
... your <u>federal government</u> to do what is right for your country?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
... your <u>state government</u> to do what is right for your state?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
... your <u>state fish and wildlife agency</u> to do what is right for fish and wildlife management in your state?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Q7. We would like to learn about your fish- and wildlife-related recreation activities. Please select one option for each question below.

	Yes	No
Have you ever participated in recreational (non-commercial) <u>fishing</u> ?	<input type="radio"/>	<input type="radio"/>
Did you participate in recreational (non-commercial) <u>fishing</u> in the past 12 months?	<input type="radio"/>	<input type="radio"/>
Have you ever participated in recreational (non-commercial) <u>hunting</u> ?	<input type="radio"/>	<input type="radio"/>
Did you participate in recreational (non-commercial) <u>hunting</u> in the past 12 months?	<input type="radio"/>	<input type="radio"/>
Have you ever taken any recreational trips for which <u>fish or wildlife viewing</u> was the primary purpose of the trip?	<input type="radio"/>	<input type="radio"/>
Did you take any recreational trips in the past 12 months for which <u>fish or wildlife viewing</u> was the primary purpose of the trip?	<input type="radio"/>	<input type="radio"/>

Q8. Please respond to the following three questions about your interest in participating in fish- and wildlife-related recreation in the future. Select one answer for each question.

	Not at all Interested	Slightly Interested	Moderately Interested	Strongly Interested
How interested are you in taking recreational <u>fishing</u> trips in the future?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
How interested are you in taking recreational <u>hunting</u> trips in the future?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
How interested are you in taking recreational trips in the future for which <u>fish or wildlife viewing</u> is the primary purpose of the trip?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Q9. Please indicate whether you believe the following statements about your state fish and wildlife agency, the Michigan Department of Natural Resources (DNR), are true never, sometimes, usually, or always (or mark if you are “unsure”). Select one answer for each statement.

	Never	Sometimes	Usually	Always	Unsure
The DNR manages natural resources in a scientifically sound manner.	<input type="radio"/>				
The DNR provides adequate opportunities for public participation in natural resource decisions.	<input type="radio"/>				

Q10. Please indicate which of the goals below you think should be given the highest priority by placing a “1” next to it. Place a “2” next to the goal that should be given the next/second highest priority, and so on until you have ranked all four goals.

Natural resource management goals should be...

- _____ ...to provide recreational opportunities.
- _____ ...to actively promote the ecological health of Michigan.
- _____ ...to support resource development for greater economic growth.
- _____ ...to allow nature to take its course.

Q11. Please respond to the following questions by selecting one answer for each.

<i>Do you believe that less, the same, or more time and money should be spent on managing and conserving...</i>	Much Less	Slightly Less	About the Same	Slightly More	Much More	Unsure
Threatened and endangered species in Michigan?	<input type="radio"/>					
Game species (animals that are hunted and trapped) in Michigan?	<input type="radio"/>					

Q12. Please indicate the extent to which you disagree or agree that you want the DNR to use each of the land management strategies below to provide habitat for wildlife on public land like State Forests and State Game Areas. Select one answer for each statement.

<i>I would like the DNR to provide habitat by...</i>	Strongly Disagree	Slightly Disagree	Neither	Slightly Agree	Strongly Agree
...purchasing property from willing private sellers.	<input type="radio"/>				
...using intentional, controlled burning (fires) on grasslands to keep trees out.	<input type="radio"/>				
...cutting trees to change the age or type of trees that grow in our forests.	<input type="radio"/>				
...limiting recreational use that might negatively impact habitat.	<input type="radio"/>				
...planting farm crops/food plots.	<input type="radio"/>				

Q13. Please indicate the extent to which you disagree or agree with each statement below regarding your interest in being involved with wildlife management. Select one answer for each statement.

<i>I would like to...</i>	Strongly Disagree	Slightly Disagree	Neither	Slightly Agree	Strongly Agree
...provide input regarding government programs that affect wildlife.	<input type="radio"/>				
...support wildlife management by contributing time or money to private foundations or organizations outside of government agencies.	<input type="radio"/>				
...manage my own property to provide wildlife habitat.	<input type="radio"/>				
...know more about how I can receive money or assistance for managing my property to provide wildlife habitat.	<input type="radio"/>				

The following background information will be used to help make general conclusions about the residents of this state. Your responses will remain completely confidential.

Q1. Are you...? Male Female

Q2. What year were you born? _____

Q3. How many people under 18 years of age are currently living in your household? _____

Q4. Do you have any pets in your household? (Select all that apply.)

Dog Cat Other type of pet(s) No pets

Q5. Recently, there has been increased attention to the idea that hunting can provide a good way for people to obtain antibiotic-free, organic meat from a local source. We'd like to know if this idea is at all related to your current views about hunting and participation in the activity. Please select one option for each statement below.

	Yes	No
I have recently become more supportive of hunting than I was in the past because of this idea.	<input type="radio"/>	<input type="radio"/>
I have recently started hunting because of this idea.	<input type="radio"/>	<input type="radio"/>
I do not hunt now but am interested in hunting in the future because of this idea.	<input type="radio"/>	<input type="radio"/>

<p>Q6. What is your annual household income before taxes? (Select one.)</p> <ul style="list-style-type: none"> <input type="radio"/> Less than \$10,000 <input type="radio"/> \$10,000 to less than \$25,000 <input type="radio"/> \$25,000 to less than \$50,000 <input type="radio"/> \$50,000 to less than \$100,000 <input type="radio"/> \$100,000 to less than \$250,000 <input type="radio"/> \$250,000 or more 	<p>Q8. Are you...? (Select one or more categories.)</p> <ul style="list-style-type: none"> <input type="checkbox"/> White <input type="checkbox"/> Black or African American <input type="checkbox"/> Hispanic or Latino <input type="checkbox"/> American Indian or Alaska Native <input type="checkbox"/> Asian <input type="checkbox"/> Native Hawaiian or Other Pacific Islander <input type="checkbox"/> Other (please specify): _____
<p>Q7. What is the highest level of education you have completed? (Select one.)</p> <ul style="list-style-type: none"> <input type="radio"/> Less than high school <input type="radio"/> High school diploma or equivalent (e.g., GED) <input type="radio"/> 2-year associate's degree or trade school <input type="radio"/> 4-year college degree <input type="radio"/> Advanced degree beyond 4-year college degree 	<p>Q9. How would you describe your current residence or community? (Select one.)</p> <ul style="list-style-type: none"> <input type="radio"/> Large city with 250,000 or more people <input type="radio"/> City with 100,000 to 249,999 people <input type="radio"/> City with 50,000 to 99,999 people <input type="radio"/> Small city with 25,000 to 49,999 people <input type="radio"/> Town with 10,000 to 24,999 people <input type="radio"/> Town with 5,000 to 9,999 people <input type="radio"/> Small town or village with less than 5,000 people <input type="radio"/> A farm or rural area
<p>Decision makers are often interested in gathering input from the public on a variety of fish and wildlife issues. If you are interested in providing input through secure online communication, <u>please provide your email below</u> (or write it on a sheet of paper and return with the survey). By doing so, you consent to participate and may or may not be contacted for future follow-up studies.</p> <div style="background-color: #cccccc; height: 40px; width: 100%; margin-top: 10px;"></div>	<p>Please write in your 5-digit zip code below.</p> <div style="background-color: #cccccc; height: 40px; width: 100%; margin-top: 10px;"></div>

**Thank you for participating in this study.
Your input is very important.**



Since 1922, the Western Association of Fish and Wildlife Agencies (WAFWA) has advanced conservation in western North America. Representing 23 western states and Canadian provinces, WAFWA's reach encompasses more than 40 percent of North America, including two-thirds of the United States. Drawing on the knowledge of scientists across the West, WAFWA is recognized as the expert source for information and analysis about western wildlife. WAFWA supports sound resource management and building partnerships at all levels to conserve wildlife for the use and benefit of all citizens, now and in the future.