



United States Department of Agriculture

USDA Forest Service National Woodland Owner Survey, 2011-2013: Appendixes



Appendix 1: U.S. Forest Service, National Woodland Owner Survey, version 5.1

Appendix 2: Text Used in the Phone Version of the U.S. Forest Service, National Woodland Owner Survey, Version 5.1

Appendix 3: Focus Group Guide Used in Pretesting the U.S. Forest Service, National Woodland Owner Survey

Appendix 4: Postcards and Cover Letters Used as Part of the 2011-2013 U.S. Forest Service, National Woodland Owner Survey

Appendix 5: Descriptions of Variables and Coding Values in the QUEST Table of the 2011-2013 U.S. Forest Service, National Woodland Owner Survey Database

Appendix 6: Descriptions of Variables and Coding values in the FOREST_AREA Table of the 2011-2013 U.S. Forest Service, National Woodland Owner Survey Database

Appendix 7: Example of Estimation Calculations for the 2011-2013 U.S. Forest Service, National Woodland Owner Survey

National Woodland Owner Survey



USDA Forest Service, National Woodland Owner Survey



160 Holdsworth Way, Amherst MA 01003

Phone (toll-free): (855) 233-3372

Internet: www.fia.fs.fed.us/nwos



OMB No. 0596-0078 Approval Expires August 31, 2013



43147



Instructions

- ✓ Please provide answers for all of the wooded land that you own in Alabama. If you are part of more than one group that owns wooded land, please respond for the group that is listed on the outside of the envelope.
- ✓ The owner who makes most of the decisions about your wooded land in Alabama should answer this questionnaire.
- ✓ If this questionnaire is received by a company or other organization, please have a person knowledgeable about the organization's wooded land in Alabama answer this questionnaire. If the company listed on the envelope is a subsidiary of a larger company, please respond for the larger, parent company.
- ✓ If you do not own any wooded land in Alabama, please return this questionnaire in the postage-paid envelope provided and write on the cover "No Land Owned."

General Questions About Your Ownership

1. Which category below best describes your ownership?

OWNTYPE *Check only one.*

- 1 Individual
- 2 Joint, such as a husband and wife
- 3 Family partnership
- 4 Trust or estate
- 5 Corporation or business partnership
- 6 Other (please specify): OWNTYPE_OTH_TXT (Text)

OWNERS_NUMBER

2. How many people are a part of this ownership?

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 # Continuous number
Owners

General Questions about Your Wooded Land

3. Wooded land covers 70% of Alabama.

Wooded land includes:

- ✓ Woods, woodlots, timberland, and forests
- ✓ Land at least 1 acre in size, 120 feet wide, and has at least 10 trees per acre
- ✓ Land at least 1 acre in size, where trees were removed and trees will grow again

Wooded land does *not* include:

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

a. How many total acres of land do you currently own in Alabama?

AC_LAND

--	--	--	--	--	--	--	--

Continuous number

Acres of land in Alabama

b. How many acres of wooded land do you currently own in Alabama?

AC_WOOD

--	--	--	--	--	--	--	--

Continuous number

Acres of wooded land in Alabama

c. Do you currently own more than one property with wooded land in Alabama? PARC_MULTI

1 Yes 0 No

↳ If yes, how many separate, unconnected properties with wooded land do you currently own? PARC_MULTI_NUMBER

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Continuous number

Properties with wooded land in Alabama

4. Is your home (primary residence) on or within a mile of any of your wooded land in Alabama?

HOME

1 Yes 0 No 8 Not Applicable

5. Do you have a vacation home or cabin on or within a mile of any of your wooded land in Alabama?

CABIN

1 Yes 0 No 8 Not Applicable

6. Do you own any land that is farmed or ranched in Alabama?

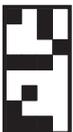
FARM

For the purpose of this survey, a farm or ranch is a place where, in most years, \$1,000 or more is earned from the sale of crops (other than forest products) or animals.

1 Yes 0 No 8 Not applicable

↳ If yes, is any of it within a mile of any of your wooded land in Alabama? FARM_NEAR

1 Yes 0 No



43147

Your Reasons for Owning Wooded Land

7. How important are the following as reasons for why you currently own your wooded land in Alabama? [Reasons for Owning](#)

If you own one property, check one box for each item.

If you own more than one property in Alabama, consider them all and check one or more boxes for each item.

	Very important	Important	Moderately important	Of little importance	Not important	Not applicable
To enjoy beauty or scenery	5 <input type="checkbox"/>	4 <input type="checkbox"/>	3 <input type="checkbox"/>	2 <input type="checkbox"/>	1 <input type="checkbox"/>	8 <input type="checkbox"/> OBJ_BEA
To protect nature or biological diversity	<input type="checkbox"/>	<input type="checkbox"/> OBJ_NAT				
To protect water resources	<input type="checkbox"/>	<input type="checkbox"/> OBJ_WAT				
To protect or improve wildlife habitat	<input type="checkbox"/>	<input type="checkbox"/> OBJ_WIL				
For land investment	<input type="checkbox"/>	<input type="checkbox"/> OBJ_INV				
Is part of my home site/primary residence	<input type="checkbox"/>	<input type="checkbox"/> OBJ_HOM				
Is part of my cabin or vacation home site	<input type="checkbox"/>	<input type="checkbox"/> OBJ_CAB				
Is part of my farm or ranch	<input type="checkbox"/>	<input type="checkbox"/> OBJ_FAR				
For privacy	<input type="checkbox"/>	<input type="checkbox"/> OBJ_PRI				
To raise my family	<input type="checkbox"/>	<input type="checkbox"/> OBJ_FAM				
To pass land on to my children or other heirs	<input type="checkbox"/>	<input type="checkbox"/> OBJ_CHILD				
For firewood	<input type="checkbox"/>	<input type="checkbox"/> OBJ_FIRE				
For timber products, such as logs or pulpwood	<input type="checkbox"/>	<input type="checkbox"/> OBJ_TIM				
For nontimber forest products, such as pine straw or berries	<input type="checkbox"/>	<input type="checkbox"/> OBJ_NTFFP				
For hunting	<input type="checkbox"/>	<input type="checkbox"/> OBJ_HUNT				
For recreation, other than hunting	<input type="checkbox"/>	<input type="checkbox"/> OBJ_REC				
Other	<input type="checkbox"/>	<input type="checkbox"/> OBJ_OTH				

↳ (Please specify): OBJ_OTH_TXT (Text)

The History of Your Wooded Land

8. a. How did you get your wooded land in Alabama? Acquisition method
Check all that apply. (Check 1, Not 0)
- Purchased ACQ_TYPE_PURCHASED
 - Inherited ACQ_TYPE_INHERITED
 - Received as gift ACQ_TYPE_GIFT
 - Other (please specify): ACQ_TYPE_OTH _____ ACQ_TYPE_OTH_TXT
- b. From whom did you get your wooded land?
Check all that apply. (Check 1, Not 0)
- My parents and/or my spouse's parents ACQ_SRC_PARENT
 - My spouse ACQ_SRC_SPOUSE
 - Another family member ACQ_SRC_FAM
 - Other individual(s) ACQ_SRC_INDIVID
 - A business ACQ_SRC_BUS
 - A government agency ACQ_SRC_GOV
 - Other (please specify): ACQ_SRC_OTH _____ ACQ_SRC_OTH_TXT
- c. In what year did you, personally, first acquire wooded land in Alabama? ACQ_YEAR

--	--	--	--

Continuous number
Year

9. a. How many times have you sold or given away any of your wooded land in Alabama?

TRAN

0 Never → *If never, skip to question 10.*

1 Once (1 time)

2 2 to 5 times

6 6 or more times

- b. If sold or given away, who received it?

Check all that apply. (Check 1, Not 0)

My children TRAN_TO_CHILD

Another family member TRAN_TO_FAM

Other individual(s) TRAN_TO_INDIV

A business TRAN_TO_BUS

A government agency TRAN_TO_GOV

Other (please specify): TRAN_TO_OTH _____ TRAN_TO_OTH_TXT

- c. Have you sold or given away any of your wooded land in Alabama in the past 5 years? TRAN_RECENT

1 Yes 0 No



43147

Uses of Your Wooded Land

10. Who makes the management decisions, such as whether or not to harvest trees, for your wooded land in Alabama?

Check all that apply. (Check 1, Not 0)

- Me `MAN_OWN`
- My spouse `MAN_SPOUSE`
- My children `MAN_CHILD`
- My parents `MAN_PARENT`
- Another family member `MAN_FAM`
- My business partner `MAN_PARTNER`
- My land manager or forester `MAN_FORESTER`
- Other (please specify): `MAN_OTH` `MAN_OTH_TXT`

11. Do you have a written management or stewardship plan for any of your wooded land in Alabama? `MAN_PLAN`

1 Yes → If yes, have you taken actions to implement it?

1 Yes 0 No `MAN_PLAN_IMPLEMENT`

`MAN_PLAN_WRITER` → Who wrote it?

Check one.

- 1 I did
- 2 Private consultant forester
- 3 Forest industry forester
- 4 State or local government forester
- 5 Federal government forester
- 6 Other (please specify): `MAN_PLAN_WRITER_OTH_TXT`

0 No → If no, why not?

Check all that apply. (Check 1, Not 0)

- I don't want/need one `MAN_PLAN_NO_NONEED`
- Too busy `MAN_PLAN_NO_BUSY`
- Too expensive `MAN_PLAN_NO_EXPENSIVE`
- Too complicated `MAN_PLAN_NO_COMPLEX`
- Other (please specify): `MAN_PLAN_NO_OTH`
`MAN_PLAN_NO_OTH_TXT`

12. a. Have any trees been cut or removed from your wooded land in Alabama since you have owned it?

Check all that apply. (Check 1, Not 0)

	Yes, for personal use	Yes, for sale	Yes, for other reasons	No
Firewood	<input type="checkbox"/> CUT_FIRE_PERS	<input type="checkbox"/> CUT_FIRE_SALE	<input type="checkbox"/> CUT_FIRE_OTH	<input type="checkbox"/> CUT_FIRE_NO
Logs	<input type="checkbox"/> CUT_LOG_PERS	<input type="checkbox"/> CUT_LOG_SALE	<input type="checkbox"/> CUT_LOG_OTH	<input type="checkbox"/> CUT_LOG_NO
Wood chips	<input type="checkbox"/> CUT_CHIP_PERS	<input type="checkbox"/> CUT_CHIP_SALE	<input type="checkbox"/> CUT_CHIP_OTH	<input type="checkbox"/> CUT_CHIP_NO
Unwanted trees	<input type="checkbox"/> CUT_UNWAN_PERS	<input type="checkbox"/> CUT_UNWAN_SALE	<input type="checkbox"/> CUT_UNWAN_OTH	<input type="checkbox"/> CUT_UNWAN_NO
Other	<input type="checkbox"/> CUT_OTH_PERS	<input type="checkbox"/> CUT_OTH_SALE	<input type="checkbox"/> CUT_OTH_OTH	<input type="checkbox"/> CUT_OTH_NO

↳ (Please specify): CUT_OTH_TXT (Text)

If no to all of the above, skip to question 13.

- b. Was a professional forester used to plan, mark, contract, or oversee any of the cuts? [CUT_FORESTER](#)

1 Yes 0 No 9 Don't know 8 Not applicable

- c. Was a certified or master logger used for any of the cuts? [CUT_LOGGER](#)

1 Yes 0 No 9 Don't know 8 Not applicable

13. Have nontimber forest products been collected from any of your wooded land in Alabama since you have owned it?

Check all that apply. (Check 1, Not 0)

	Yes, for personal use	Yes, for sale	No
Edibles, such as berries or mushrooms	<input type="checkbox"/> NTFP_EDIB_PERS	<input type="checkbox"/> NTFP_EDIB_SALE	<input type="checkbox"/> NTFP_EDIB_NO
Medicinal, such as ginseng or saw palmetto	<input type="checkbox"/> NTFP_MEDI_PERS	<input type="checkbox"/> NTFP_MEDI_SALE	<input type="checkbox"/> NTFP_MEDI_NO
Landscaping, such as pine straw or transplants	<input type="checkbox"/> NTFP_LAND_PERS	<input type="checkbox"/> NTFP_LAND_SALE	<input type="checkbox"/> NTFP_LAND_NO
Decorative, such as boughs or moss	<input type="checkbox"/> NTFP_DECO_PERS	<input type="checkbox"/> NTFP_DECO_SALE	<input type="checkbox"/> NTFP_DECO_NO
Other	<input type="checkbox"/> NTFP_OTH_PERS	<input type="checkbox"/> NTFP_OTH_SALE	<input type="checkbox"/> NTFP_OTH_NO

↳ (Please specify): NTFP_OTH_TXT (Text)



43147

16. Have you ever leased or collected money (other than from logging) **LEASE** for allowing people to use your wooded land in Alabama?

1 Yes 0 No

↳ *If yes, please answer questions a and b.*

a. What did they use it for?

Check all that apply. (Check 1, Not 0)

Hunting **LEASE_ACT_HUNT**

Recreation (other than hunting) **LEASE_ACT_REC**

To graze/pasture livestock **LEASE_ACT_GRAZE**

Land conservation, such as the Conservation Reserve or Environmental Quality Incentives Programs **LEASE_ACT_CONS**

Carbon capture/sequestration **LEASE_ACT_CARB**

Public water supply protection **LEASE_ACT_WAT**

Wildlife habitat/biodiversity **LEASE_ACT_WILD**

Other (please specify): **LEASE_ACT_OTH** **LEASE_ACT_OTH_TXT**

b. Have any of these activities occurred in the last 5 years? **LEASE_5YR**

1 Yes 0 No

17. Cost-share programs provide landowners with money to help them establish or otherwise manage their wooded land. Examples include the Conservation Reserve Program, the Environmental Quality Incentives Program, the Forest Land Enhancement Program, and various state funded programs.

a. How familiar are you with cost-share programs? **COST_KNOW**

Extremely familiar	Moderately familiar	Somewhat familiar	Slightly familiar	Not at all familiar
5 <input type="checkbox"/>	4 <input type="checkbox"/>	3 <input type="checkbox"/>	2 <input type="checkbox"/>	1 <input type="checkbox"/>

b. Have you ever used a cost-share program to help you establish or manage your wooded land in Alabama? **COST**

1 Yes 0 No 9 Don't know

↳ *If yes, have you done so in the last 5 years? **COST_5YR***

1 Yes 0 No 9 Don't know



43147

18. To encourage good woodland management, groups have created green certification programs to recognize landowners who comply with the groups' standards. Examples include Tree Farm, Green Tag, Forest Stewardship Council, and Sustainable Forestry Initiative.

CERT_KNOW a. How familiar are you with green certification?
Extremely familiar 5 Moderately familiar 4 Somewhat familiar 3 Slightly familiar 2 Not at all familiar 1

CERT b. Is any of your wooded land in Alabama currently green certified?
1 Yes 0 No 9 Don't know

19. Some state and local governments have programs that defer, reduce, or eliminate property taxes for wooded land. In Alabama, there is the Current Use program.

TAX_KNOW a. How familiar are you with this program?
Extremely familiar 5 Moderately familiar 4 Somewhat familiar 3 Slightly familiar 2 Not at all familiar 1

TAX b. Is any of your wooded land in Alabama currently enrolled in this program or a similar one?
1 Yes 0 No 9 Don't know

20. Development rights can be sold or voluntarily given away.

EASE_KNOW a. How familiar are you with this concept?
Extremely familiar 5 Moderately familiar 4 Somewhat familiar 3 Slightly familiar 2 Not at all familiar 1

EASE b. Have development rights been sold or voluntarily given away on any of your wooded land in Alabama by either you or a previous owner?
1 Yes 0 No 9 Don't know

EASE_5YR c. If No or Don't know, how likely are you to do so in the next 5 years?
Extremely likely 5 Likely 4 Undecided 3 Unlikely 2 Extremely unlikely 1 Not applicable 8

Recreation on Your Wooded Land

21. a. Who, with your permission, has hunted, hiked, or otherwise recreated on your wooded land in Alabama in the past 5 years?

Check all that apply. (Check 1, Not 0)

- Me and/or my spouse REC_WHO_OWN
- My children REC_WHO_CHILD
- Other family members REC_WHO_FAM
- Friends REC_WHO_FRND
- Neighbors REC_WHO_NEIGH
- The general public for free REC_WHO_PUB_FREE
- The general public for a fee REC_WHO_PUB_FEE
- Other (please specify): REC_WHO_OTH REC_WHO_OTH_TXT
- Nobody → *If nobody, skip to question 22.* REC_WHO_NONE

b. How did you/they recreate?

Check all that apply. (Check 1, Not 0)

- Hunting REC_HOW_HUNT
- Fishing REC_HOW_FISH
- Hiking/walking REC_HOW_HIKE
- Bicycling REC_HOW_BIKE
- Camping REC_HOW_CAMP
- Horseback riding REC_HOW_HORSE
- Skiing or snowshoeing REC_HOW_SKI
- Off-road vehicles, such as ATVs or snowmobiles REC_HOW_OHV
- Other (please specify): REC_HOW_OTH REC_HOW_OTH_TXT

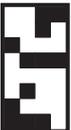
22. Is any of your wooded land in Alabama posted to restrict access
POST and/or use by the general public?

1 Yes 0 No

↳ If yes, what is restricted?

Check all that apply (Check 1, Not 0)

- Trespassing POST_RESTR_TRES
- Hunting POST_RESTR_HUNT
- Motorized vehicles POST_RESTR_VEH
- Other (please specify): POST_RESTR_OTH POST_RESTR_OTH_TXT



43147

Sources of Information

ADVICE 23. Have you talked with anyone or received advice/information about care, management, or protection of your wooded land in Alabama in the past 5 years?

1 Yes 0 No

↳ If yes, please answer a, b, and c.

a. What was it about?

Check all that apply. (Check 1, Not 0)

Insects or plant diseases [ADV_TOP_INS](#)

Wildlife or wildlife habitat [ADV_TOP_WILD](#)

Timber production [ADV_TOP_TIM](#)

Land conservation [ADV_TOP_CONS](#)

Fire safety [ADV_TOP_FIRE](#)

Other (please specify): [ADV_TOP_OTH](#) [ADV_TOP_OTH_TXT](#)

b. How did it happen?

Check all that apply. (Check 1, Not 0)

Talked to someone [ADV_METH_TALK](#)

Someone visited my land [ADV_METH_VISIT](#)

Received a brochure or other written material [ADV_METH_WRIT](#)

From the Internet [ADV_METH_NET](#)

Attended a conference or workshop [ADV_METH_CONF](#)

Other (please specify): [ADV_METH_OTH](#) [ADV_METH_OTH_TXT](#)

c. Who was involved?

Check all that apply. (Check 1, Not 0)

State or local government employee [ADV_SRC_STATE](#)

Federal government employee [ADV_SRC_FED](#)

Private consultant [ADV_SRC_PRIV](#)

Another landowner [ADV_SRC_OWNER](#)

Family member or friend [ADV_SRC_FAM](#)

Other (please specify): [ADV_SRC_OTH](#) [ADV_SRC_OTH_TXT](#)

24. How helpful would each of the following be to you?

Check one box for each item.

	Very helpful Helpful	Moderately helpful Of little help	Of no help	Not applicable Don't know				
Advice on woodland management	5 <input type="checkbox"/>	4 <input type="checkbox"/>	3 <input type="checkbox"/>	2 <input type="checkbox"/>	1 <input type="checkbox"/>	8 <input type="checkbox"/>	9 <input type="checkbox"/>	HELP_WOOD
Advice on how to transfer land to the next generation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HELP_TRAN
Advice on selling or giving away development rights	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HELP_EASE
Cost-sharing for woodland management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HELP_COST
More favorable tax policies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HELP_TAX
Stronger timber markets	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HELP_TIM
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HELP_OTH
↳ (Please specify): <u>HELP_OTH_TXT</u> (Text)								

25. How would you **prefer** to get advice or information related to your wooded land?

Check all that apply. (Check 1, Not 0)

- Talk to someone [HELP_TYPE_TALK](#)
- Have someone visit my land [HELP_TYPE_VISIT](#)
- Written materials, such as brochures or other publications [HELP_TYPE_WRIT](#)
- Internet [HELP_TYPE_NET](#)
- Conference or workshop [HELP_TYPE_CONF](#)
- Other (please specify): HELP_TYPE_OTH (Text)
- I don't want/need advice or information [HELP_TYPE_NA](#)



43147

Concerns

26. Please indicate your level of concern about each of the following topics for your wooded land in Alabama.

If you own one property, check one box for each item.

If you own more than one property in Alabama, consider them all and check one or more boxes for each item.

	Great concern	Concern	Moderate concern	Of little concern	No concern	Not applicable
Air pollution	5 <input type="checkbox"/>	4 <input type="checkbox"/>	3 <input type="checkbox"/>	2 <input type="checkbox"/>	1 <input type="checkbox"/>	8 <input type="checkbox"/> CNC_AIR
Damage or noise from off-road vehicles	<input type="checkbox"/>	<input type="checkbox"/> CNC_OHV				
Damage from animals	<input type="checkbox"/>	<input type="checkbox"/> CNC_ANIM				
Development of nearby lands	<input type="checkbox"/>	<input type="checkbox"/> CNC_DEV				
Drought or lack of water	<input type="checkbox"/>	<input type="checkbox"/> CNC_WAT_LACK				
Global climate change	<input type="checkbox"/>	<input type="checkbox"/> CNC_CLIM				
High property taxes	<input type="checkbox"/>	<input type="checkbox"/> CNC_TAX				
Invasive plant species	<input type="checkbox"/>	<input type="checkbox"/> CNC_INVA				
Keeping land intact for future generations	<input type="checkbox"/>	<input type="checkbox"/> CNC_HEIR				
Misuse of wooded land, such as vandalism or dumping	<input type="checkbox"/>	<input type="checkbox"/> CNC_DUMP				
Trespassing or poaching	<input type="checkbox"/>	<input type="checkbox"/> CNC_TRES				
Unwanted insects or diseases	<input type="checkbox"/>	<input type="checkbox"/> CNC_INS				
Water pollution	<input type="checkbox"/>	<input type="checkbox"/> CNC_WAT_POL				
Wildfire	<input type="checkbox"/>	<input type="checkbox"/> CNC_FIRE				
Wind or ice storms	<input type="checkbox"/>	<input type="checkbox"/> CNC_STORM				
Other	<input type="checkbox"/>	<input type="checkbox"/> CNC_OTH				
↳ (Please specify): <input type="text" value="CNC_OTH_TXT"/> (Text)						

The Future of Your Wooded Land

27. How likely is it that you will sell or give away any of your wooded land in Alabama in the next 5 years? **TRAN_FUT**

Extremely likely 5 <input type="checkbox"/>	Likely 4 <input type="checkbox"/>	Undecided 3 <input type="checkbox"/>	Unlikely 2 <input type="checkbox"/>	Extremely unlikely 1 <input type="checkbox"/>
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If likely or extremely likely, answer a and b.

a. Who will likely receive it? (Check 1, Not 0)

Check all that apply

- My children → TRAN_FUT_TO_CHILD_NUMBER
Continuous number _____ **Number of children** TRAN_FUT_TO_CHILD
- Another family member(s) → TRAN_FUT_TO_FAM_NUMBER
Continuous number _____ **Number** TRAN_FUT_TO_FAM
- Other individual(s) TRAN_FUT_TO_INDIV
- A business TRAN_FUT_TO_BUS
- A government agency TRAN_FUT_TO_GOV
- Don't know TRAN_FUT_TO_DONTKNOW
- Other (please specify): TRAN_FUT_TO_OTH _____ TRAN_FUT_TO_OTH_TXT

b. Why are you planning to sell it or give it away?

Check all that apply (Check 1, Not 0)

- I am ready to give it away TRAN_FUT_WHY_READY
- Too expensive to hold or maintain TRAN_FUT_WHY_COST
- I need the money TRAN_FUT_WHY_MONEY
- High market value TRAN_FUT_WHY_MARKET
- No longer interested in owning it TRAN_FUT_WHY_NOINTEREST
- Part of investment strategy TRAN_FUT_WHY_INV
- Other (please specify): TRAN_FUT_WHY_OTH _____ TRAN_FUT_WHY_OTH_TXT

28. Please indicate your level of agreement with the following statements.

Check one box for each item.

	Strongly agree	Agree	Neither agree nor disagree	Disagree	Strongly disagree
I want my wooded land to stay wooded	5 <input type="checkbox"/>	4 <input type="checkbox"/>	3 <input type="checkbox"/>	2 <input type="checkbox"/>	1 <input type="checkbox"/> <small>ATT_WOODED</small>
I would sell my land if I was offered a reasonable price	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <small>ATT_SELL</small>



43147

General Questions About You

Please provide answers for up to two owners. If you are responding on behalf of a business or other organization, skip this section.

	Owner 1	Owner 2
29. Are you retired?	1 <input type="checkbox"/> Yes 0 <input type="checkbox"/> No OWN1_RET	1 <input type="checkbox"/> Yes 0 <input type="checkbox"/> No OWN2_RET
30. What is or was your main occupation?	OWN1_OCC (Text)	OWN2_OCC (Text)
31. What is your age?	<input type="text"/> <input type="text"/> Years OWN1_AGE # Continuous number	<input type="text"/> <input type="text"/> Years OWN2_AGE # Continuous number
32. What is your gender?	1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female OWN1_GENDER	1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female OWN2_GENDER
33. What is the highest degree or level of school you have completed?	1 <input type="checkbox"/> Less than 12th grade 2 <input type="checkbox"/> High school/GED 3 <input type="checkbox"/> Some college 4 <input type="checkbox"/> Associate degree 5 <input type="checkbox"/> Bachelor's degree 6 <input type="checkbox"/> Advanced degree OWN1_EDU	<input type="checkbox"/> Less than 12th grade <input type="checkbox"/> High school/GED <input type="checkbox"/> Some college <input type="checkbox"/> Associate degree <input type="checkbox"/> Bachelor's degree <input type="checkbox"/> Advanced degree OWN2_EDU
34. Are you of Hispanic or Latino origin?	1 <input type="checkbox"/> Yes 0 <input type="checkbox"/> No OWN1_ETH	1 <input type="checkbox"/> Yes 0 <input type="checkbox"/> No OWN2_ETH
35. What is your race? Select <i>one or more</i> .	(Check 1, Not 0) <input type="checkbox"/> American Indian or Alaska Native <input type="checkbox"/> Asian <input type="checkbox"/> Black or African-American <input type="checkbox"/> Native Hawaiian or Other Pacific Islander <input type="checkbox"/> White	<input type="checkbox"/> American Indian or Alaska Native <input type="checkbox"/> Asian <input type="checkbox"/> Black or African-American <input type="checkbox"/> Native Hawaiian or Other Pacific Islander <input type="checkbox"/> White

INCOME 36. What is your household's annual income?
 20 Less than \$25,000 100 \$100,000 to \$199,999
 25 \$25,000 to \$49,999 200 \$200,000 or more
 50 \$50,000 to \$99,999

INC_WOOD 37. On average, what percentage of your household's annual income is derived from the wooded land that you own?

Continuous number
Percent



If there are any additional comments or concerns that you would like to share, please write them below.



43147





Thank you for participating in this survey!

Please return the questionnaire in the
postage-paid envelope provided.

If you would like a copy of the results of this survey, print
your name and address on the back of the return envelope.



Comments or questions?

Please contact us:

USDA Forest Service
National Woodland Owner Survey
160 Holdsworth Way
Amherst, MA 01003
Toll-Free Telephone: (855) 233-3372
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Public reporting burden for this collection of information is estimated to average 25 minutes per respondent, including time for reviewing instructions, searching existing data sources, gathering and maintaining data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Officer, OIRM, Room 404-W, Washington, DC 20250; and to the Office of Management and Budget, Paperwork Reduction Project (OMB#0596-0078), Washington, DC 20503.

Version: Alabama 5.1



43147

APPENDIX 2

Text Used in the Phone Version of the U.S. Forest Service, National Woodland Owner Survey, Version 5.1

Variables read out from Blaise for the Woodland Ownership Survey – 2013

* Readout file is delimited by ‘;’

WoodState, readout format = INTEGER[2]

State Fips code provided by FS where woodland is located

STATE, readout format = INTEGER[2]

State Fips code provided by FS where target resides

ID, readout format = INTEGER[9]

Unique identifier of each record provided by FS

Intrdctn, readout format = INTEGER[1]

Interviewer text:

Hello, this is ^piEnumName calling on behalf of the ^aStateName Field Office of USDA's National Agricultural Statistics Service. We are conducting a ^aSurveyName for the U.S. Forest Service and you were selected from the nearly 10 million private woodland owners in the U.S. to participate. Several weeks ago you were mailed a copy of this survey. We have not received it and were hoping to collect the data by telephone today. ^aSurveyPhrase Your cooperation is extremely important to the accuracy of the survey and your individual report will be kept confidential @Y(under Title 7 of the U.S. Code and CIPSEA (Public Law 107-347))@Y. Response is voluntary.

Options:

- (1) GO : Continue with interview
- (2) OB : Out of Business

IntroWholsRsp, readout format = INTEGER[2]

Interviewer text:

Who is responding?

Options:

- (1) Operator : Operator or Manager
- (2) Spouse :
- (3) Acct : Accountant or Bookkeeper
- (4) Partner :
- (9) Other :

Specify, readout format = STRING[20]

Only routed if respondent indicates out of business

Interviewer text:

Please specify the other reason describing why the operation is not in business.

Response, readout format = INTEGER[1]

Corresponds to the NASS office use code for response (ic9901)

Options:

- (1) Complete :
- (2) Ref : Refusal
- (3) Inacc : Inaccessible

(4) OfficeHold : Office Hold

WholsRsp, readout format = INTEGER[1]

Corresponds to the NASS office use code for respondent (ic9902)

Options:

- (1) Operator : Operator or Manager
- (2) Spouse :
- (3) Acct : Accountant or Bookkeeper
- (4) Partner :
- (9) Other :

Reason, readout format = INTEGER[1]

Only routed if nonresponse (inaccessible, refusal, etc)

Interviewer text:

Enter the reason for non-response.

Options:

- (1) Refuses : Refuses cooperation
- (2) MailedIn : Already mailed in form / Will complete and FAX back
- (3) OnWEB : Will complete on Internet
- (4) Inacc : Impossible to contact - INACCESSIBLE
- (5) Monitor : Will not cooperate because of monitoring
- (6) LangBarrier : Language barrier

NonResponseWholsRsp, readout format = INTEGER[2]

Only routed if nonresponse (inaccessible, refusal, etc)

Interviewer text:

Who is responding?

Options:

- (1) Operator : Operator or Manager
- (2) Spouse :
- (3) Acct : Accountant or Bookkeeper
- (4) Partner :
- (9) Other :

Thanks, readout format = INTEGER[2]

Only routed if nonresponse (inaccessible, refusal, etc)

Interviewer text:

Thank you for your time.

Options:

- (1) Proceed : Enter 1 to continue.

Any1, readout format = INTEGER[2]

Interviewer text:

Please provide answers for all of the wooded land that you own in @W^aState@W. If you are part of more than one group that owns wooded land, please respond for the group. Do you own any wooded land in @W^aState@W?

Options:

- (1) Yes : YES
- (3) No : NO

Ownship, readout format = INTEGER[2]

Interviewer text:

Which category best describes your ownership? Select only one.

Options:

- (1) Individual : Individual
- (2) Joint : Joint, such as husband and wife
- (3) Family : Family partnership
- (4) Trust : Trust or estate
- (5) Partnership : Corporation or business partnership
- (6) Own_Other : Other

OtherOwner, readout format = STRING[40]

Interviewer text:

Please specify the type of ownership.

People, readout format = INTEGER[3]

Interviewer text:

How many people are a part of this ownership?

Acresland, readout format = INTEGER[6]

Interviewer text:

How many total acres of LAND do you currently own in @W^aState@W?

Acreswood, readout format = INTEGER[6]

Interviewer text:

How many total acres of WOODED LAND do you currently own in @W^aState@W?

Residence, readout format = INTEGER[2]

Interviewer text:

Is your home (primary residence) on or within a mile of any of your wooded land in @W^aState@W?

Options:

- (1) Yes : Yes
- (2) NA : Not Applicable
- (3) No : No

Cabin, readout format = INTEGER[2]

Interviewer text:

Do you have a vacation home or cabin on or within a mile of any of your wooded land in @W^aState@W?

Options:

- (1) Yes : Yes
- (2) NA : Not Applicable
- (3) No : No

NASSFarm, readout format = INTEGER[2]

Interviewer text:

Do you own any land that is farmed or ranched that is within a mile of any of your wooded land in @W^aState@W? For the purpose of this survey, a farm or ranch is a place where, in most years, \$1,000 or more is earned from the sale of crops (other than forest products) or animals.

Options:

(1) Yes : YES

(3) No : NO

AcqPurch, readout format = INTEGER[2]

Interviewer text:

How did you get your wooded land in @W^aState@W?

Options:

1 if 'Purchased' option was selected; otherwise 0

AcqInherit, readout format = INTEGER[2]

Interviewer text:

How did you get your wooded land in @W^aState@W?

Options:

1 if 'Inherited' option was selected; otherwise 0

AcqGift, readout format = INTEGER[2]

Interviewer text:

How did you get your wooded land in @W^aState@W?

Options:

1 if 'Gift' option was selected; otherwise 0

AcqOther, readout format = INTEGER[2]

Interviewer text:

How did you get your wooded land in @W^aState@W?

Options:

1 if 'Other' option was selected; otherwise 0

AcqOtherSpcfy, readout format = STRING[40]

Interviewer text:

Please specify the 'other' manner in which you acquired your wooded land.

Year, readout format = INTEGER[4]

Interviewer text:

In what year did you, personally, first acquire wooded land in @W^aState@W?

OwnRsn, readout format = INTEGER[2]

Interviewer text:

For the following series of questions regarding reasons for why you own wooded land in @W^aState@W, select only ONE response for each question.

Options:

(1) Proceed : Enter 1 to continue.

Enjoy, readout format = INTEGER[2]

Interviewer text:

To enjoy beauty or scenery

Options:

- (1) N_Important : Not Important
- (2) O_Important : Of little importance
- (3) M_Important : Moderately important
- (4) Important : Important
- (5) V_Important : Very important
- (8) N_Applicable : Not Applicable

Protect, readout format = INTEGER[2]

Interviewer text:

To protect nature or biological diversity

Options:

- (1) N_Important : Not Important
- (2) O_Important : Of little importance
- (3) M_Important : Moderately important
- (4) Important : Important
- (5) V_Important : Very important
- (8) N_Applicable : Not Applicable

Water, readout format = INTEGER[2]

Interviewer text:

To protect water resources

Options:

- (1) N_Important : Not Important
- (2) O_Important : Of little importance
- (3) M_Important : Moderately important
- (4) Important : Important
- (5) V_Important : Very important
- (8) N_Applicable : Not Applicable

Habitat, readout format = INTEGER[2]

Interviewer text:

To protect or improve wildlife habitat

Options:

- (1) N_Important : Not Important
- (2) O_Important : Of little importance
- (3) M_Important : Moderately important
- (4) Important : Important
- (5) V_Important : Very important
- (8) N_Applicable : Not Applicable

Investment, readout format = INTEGER[2]

Interviewer text:

For land investment

Options:

- (1) N_Important : Not Important
- (2) O_Important : Of little importance
- (3) M_Important : Moderately important
- (4) Important : Important
- (5) V_Important : Very important

(8) N_Applicable : Not Applicable

Home, readout format = INTEGER[2]

Interviewer text:

Is part of your home site/primary residence

Options:

- (1) N_Important : Not Important
- (2) O_Important : Of little importance
- (3) M_Important : Moderately important
- (4) Important : Important
- (5) V_Important : Very important
- (8) N_Applicable : Not Applicable

Rsn_Cabin, readout format = INTEGER[2]

Interviewer text:

Is part of your cabin or vacation home site

Options:

- (1) N_Important : Not Important
- (2) O_Important : Of little importance
- (3) M_Important : Moderately important
- (4) Important : Important
- (5) V_Important : Very important
- (8) N_Applicable : Not Applicable

Farm, readout format = INTEGER[2]

Interviewer text:

Is part of your farm or ranch

Options:

- (1) N_Important : Not Important
- (2) O_Important : Of little importance
- (3) M_Important : Moderately important
- (4) Important : Important
- (5) V_Important : Very important
- (8) N_Applicable : Not Applicable

Privacy, readout format = INTEGER[2]

Interviewer text:

For privacy

Options:

- (1) N_Important : Not Important
- (2) O_Important : Of little importance
- (3) M_Important : Moderately important
- (4) Important : Important
- (5) V_Important : Very important
- (8) N_Applicable : Not Applicable

Family, readout format = INTEGER[2]

Interviewer text:

To raise your family

Options:

- (1) N_Important : Not Important
- (2) O_Important : Of little importance
- (3) M_Important : Moderately important
- (4) Important : Important
- (5) V_Important : Very important
- (8) N_Applicable : Not Applicable

PassLand, readout format = INTEGER[2]

Interviewer text:

To pass land on to your children or other heirs

Options:

- (1) N_Important : Not Important
- (2) O_Important : Of little importance
- (3) M_Important : Moderately important
- (4) Important : Important
- (5) V_Important : Very important
- (8) N_Applicable : Not Applicable

Firewood, readout format = INTEGER[2]

Interviewer text:

For firewood

Options:

- (1) N_Important : Not Important
- (2) O_Important : Of little importance
- (3) M_Important : Moderately important
- (4) Important : Important
- (5) V_Important : Very important
- (8) N_Applicable : Not Applicable

Timber, readout format = INTEGER[2]

Interviewer text:

For timber products, such as logs or pulpwood

Options:

- (1) N_Important : Not Important
- (2) O_Important : Of little importance
- (3) M_Important : Moderately important
- (4) Important : Important
- (5) V_Important : Very important
- (8) N_Applicable : Not Applicable

NonTimber, readout format = INTEGER[2]

Interviewer text:

For nontimber forest products, such as @W^aexample@W

Options:

- (1) N_Important : Not Important
- (2) O_Important : Of little importance
- (3) M_Important : Moderately important
- (4) Important : Important
- (5) V_Important : Very important
- (8) N_Applicable : Not Applicable

Hunting, readout format = INTEGER[2]

Interviewer text:

For hunting

Options:

- (1) N_Important : Not Important
- (2) O_Important : Of little importance
- (3) M_Important : Moderately important
- (4) Important : Important
- (5) V_Important : Very important
- (8) N_Applicable : Not Applicable

Recreation, readout format = INTEGER[2]

Interviewer text:

For recreation, other than hunting

Options:

- (1) N_Important : Not Important
- (2) O_Important : Of little importance
- (3) M_Important : Moderately important
- (4) Important : Important
- (5) V_Important : Very important
- (8) N_Applicable : Not Applicable

Other, readout format = INTEGER[2]

Interviewer text:

Another reason

Options:

- (1) N_Important : Not Important
- (2) O_Important : Of little importance
- (3) M_Important : Moderately important
- (4) Important : Important
- (5) V_Important : Very important
- (8) N_Applicable : Not Applicable

SpecOwn, readout format = STRING[40]

Interviewer text:

Please specify your additional reason for owning wooded land.

Lease, readout format = INTEGER[2]

Interviewer text:

Have you ever leased or collected money (other than from logging) for allowing people to use your wooded land in @W^aState@W?

Options:

- (1) Yes : YES
- (3) No : NO

CostShare, readout format = INTEGER[2]

Interviewer text:

Cost-share programs provide landowners with money to help them establish or otherwise manage their wooded land. Examples include the Conservation Reserve Program, the Environmental Quality Incentives Program, the Forest Land Enhancement Program, and various state funded programs. Have you ever used a cost-share program to help you establish or manage your wooded land in @W^aState@W?

Options:

(1) Yes : YES

(3) No : NO

(5) DontNo : Don't Know

Green, readout format = INTEGER[2]

Interviewer text:

To encourage good woodland management, groups have created green certification programs to recognize landowners who comply with the groups' standards. Examples include Tree Farm, Green Tag, Forest Stewardship Council, and Sustainable Forestry Initiative. Is any of your wooded land in @W^aState@W currently green certified?

Options:

(1) Yes : YES

(3) No : NO

(5) DontNo : Don't Know

Government, readout format = INTEGER[2]

Interviewer text:

Some state and local governments have programs that defer, reduce, or eliminate property taxes for wooded land. @W^aTaxprogram@W @/Is any of your wooded land in @W^aState@W currently enrolled in @/^average

Options:

(1) Yes : YES

(3) No : NO

(5) DontNo : Don't Know

Dev_Rights, readout format = INTEGER[2]

Interviewer text:

Have development rights been sold or voluntarily given away on any of your wooded land in @W^aState@W by either you or a previous owner?

Options:

(1) Yes : YES

(3) No : NO

(5) DontNo : Don't Know

ManOwn, readout format = INTEGER[2]

Interviewer text:

Who makes the management decisions, such as whether or not to harvest trees, for your wooded land in @W^aState@W? Select all that apply.

Options:

1 if 'Myself' option was selected; otherwise 0

ManSpouse, readout format = INTEGER[2]

Interviewer text:

Who makes the management decisions, such as whether or not to harvest trees, for your wooded land in @W^aState@W? Select all that apply.

Options:

1 if 'Spouse' option was selected; otherwise 0

ManChild, readout format = INTEGER[2]

Interviewer text:

Who makes the management decisions, such as whether or not to harvest trees, for your wooded land in @W^aState@W? Select all that apply.

Options:

1 if 'Children' option was selected; otherwise 0

ManParent, readout format = INTEGER[2]

Interviewer text:

Who makes the management decisions, such as whether or not to harvest trees, for your wooded land in @W^aState@W? Select all that apply.

Options:

1 if 'Parents' option was selected; otherwise 0

ManFam, readout format = INTEGER[2]

Interviewer text:

Who makes the management decisions, such as whether or not to harvest trees, for your wooded land in @W^aState@W? Select all that apply.

Options:

1 if 'Another family member' option was selected; otherwise 0

ManPartner, readout format = INTEGER[2]

Interviewer text:

Who makes the management decisions, such as whether or not to harvest trees, for your wooded land in @W^aState@W? Select all that apply.

Options:

1 if 'Business partner' option was selected; otherwise 0

ManForester, readout format = INTEGER[2]

Interviewer text:

Who makes the management decisions, such as whether or not to harvest trees, for your wooded land in @W^aState@W? Select all that apply.

Options:

1 if 'Land manager or forester' option was selected; otherwise 0

ManOther, readout format = INTEGER[2]

Interviewer text:

Who makes the management decisions, such as whether or not to harvest trees, for your wooded land in @W^aState@W? Select all that apply.

Options:

1 if 'Other' option was selected; otherwise 0

OtherDec, readout format = STRING[40]

Interviewer text:

Please specify the 'other' entity who makes most of the decisions.

CutPers, readout format = INTEGER[2]

Interviewer text:

Have any trees been cut or removed from your wooded land in @W^aState@W since you have owned it? These may have included firewood, logs, wood chips, and/or unwanted trees. Select all that apply.

Options:

1 if 'Yes, for personal use' option was selected; otherwise 0

CutSale, readout format = INTEGER[2]

Interviewer text:

Have any trees been cut or removed from your wooded land in @W^aState@W since you have owned it? These may have included firewood, logs, wood chips, and/or unwanted trees. Select all that apply.

Options:

1 if 'Yes, for sale' option was selected; otherwise 0

CutOth, readout format = INTEGER[2]

Interviewer text:

Have any trees been cut or removed from your wooded land in @W^aState@W since you have owned it? These may have included firewood, logs, wood chips, and/or unwanted trees. Select all that apply.

Options:

1 if 'Yes, for other reasons' option was selected; otherwise 0

CutNo, readout format = INTEGER[2]

Interviewer text:

Have any trees been cut or removed from your wooded land in @W^aState@W since you have owned it? These may have included firewood, logs, wood chips, and/or unwanted trees. Select all that apply.

Options:

1 if 'No' option was selected; otherwise 0

CollPers, readout format = INTEGER[2]

Interviewer text:

Have nontimber forest products been collected from any of your wooded land in @W^aState@W since you have owned it? These may have included edible, medicinal, landscaping, and/or decorative items. Select all that apply.

Options:

1 if 'Yes, for personal use' option was selected; otherwise 0

CollSale, readout format = INTEGER[2]

Interviewer text:

Have nontimber forest products been collected from any of your wooded land in @W^aState@W since you have owned it? These may have included edible, medicinal, landscaping, and/or decorative items. Select all that apply.

Options:

1 if 'Yes, for sale' option was selected; otherwise 0

ColNo, readout format = INTEGER[2]

Interviewer text:

Have nontimber forest products been collected from any of your wooded land in @W^aState@W since you have owned it? These may have included edible, medicinal, landscaping, and/or decorative items. Select all that apply.

Options:

1 if 'No' option was selected; otherwise 0

Steward, readout format = INTEGER[2]

Interviewer text:

Do you have a written management or stewardship plan for any of your wooded land in @W^aState@W?

Options:

(1) Yes : YES

(3) No : NO

Advice, readout format = INTEGER[2]

Interviewer text:

Have you talked with anyone or received advice/information about care, management, or protection of your wooded land in @W^aState@W in the past five years?

Options:

(1) Yes : YES

(3) No : NO

ActSale, readout format = INTEGER[2]

Interviewer text:

Which of the following have occurred on your wooded land in @W^aState@W in the past five years? Select all that apply.

Options:

1 if 'For sale' option was selected; otherwise 0

ActPers, readout format = INTEGER[2]

Interviewer text:

Which of the following have occurred on your wooded land in @W^aState@W in the past five years? Select all that apply.

Options:

1 if 'For own use' option was selected; otherwise 0

ActNTFP, readout format = INTEGER[2]

Interviewer text:

Which of the following have occurred on your wooded land in @W^aState@W in the past five years? Select all that apply.

Options:

1 if 'Nontimber' option was selected; otherwise 0

ActFire, readout format = INTEGER[2]

Interviewer text:

Which of the following have occurred on your wooded land in @W^aState@W in the past five years? Select all that apply.

Options:

1 if 'Reduced fire hazard' option was selected; otherwise 0

ActBurn, readout format = INTEGER[2]

Interviewer text:

Which of the following have occurred on your wooded land in @W^aState@W in the past five years? Select all that apply.

Options:

1 if 'Controlled burn' option was selected; otherwise 0

ActInva, readout format = INTEGER[2]

Interviewer text:

Which of the following have occurred on your wooded land in @W^aState@W in the past five years? Select all that apply.

Options:

1 if 'Invasive plants' option was selected; otherwise 0

ActIns, readout format = INTEGER[2]

Interviewer text:

Which of the following have occurred on your wooded land in @W^aState@W in the past five years? Select all that apply.

Options:

1 if 'Insects' option was selected; otherwise 0

ActRoad, readout format = INTEGER[2]

Interviewer text:

Which of the following have occurred on your wooded land in @W^aState@W in the past five years? Select all that apply.

Options:

1 if 'Roads' option was selected; otherwise 0

ActTrail, readout format = INTEGER[2]

Interviewer text:

Which of the following have occurred on your wooded land in @W^aState@W in the past five years? Select all that apply.

Options:

1 if 'Trail' option was selected; otherwise 0

ActWild, readout format = INTEGER[2]

Interviewer text:

Which of the following have occurred on your wooded land in @W^aState@W in the past five years? Select all that apply.

Options:

1 if 'Habitat' option was selected; otherwise 0

ActGraze, readout format = INTEGER[2]

Interviewer text:

Which of the following have occurred on your wooded land in @W^aState@W in the past five years? Select all that apply.

Options:

1 if 'Grazing' option was selected; otherwise 0

ActNone, readout format = INTEGER[2]

Interviewer text:

Which of the following have occurred on your wooded land in @W^aState@W in the past five years? Select all that apply.

Options:

1 if 'None' was selected; otherwise 0

RecOwn, readout format = INTEGER[2]

Interviewer text:

Who, with your permission, has hunted, hiked, or otherwise recreated on your wooded land in @W^aState@W in the past five years? Select all that apply.

Options:

1 if 'Myself' option was selected; otherwise 0

RecChild, readout format = INTEGER[2]

Interviewer text:

Who, with your permission, has hunted, hiked, or otherwise recreated on your wooded land in @W^aState@W in the past five years? Select all that apply.

Options:

1 if 'Children' option was selected; otherwise 0

RecFam, readout format = INTEGER[2]

Interviewer text:

Who, with your permission, has hunted, hiked, or otherwise recreated on your wooded land in @W^aState@W in the past five years? Select all that apply.

Options:

1 if 'Other family' option was selected; otherwise 0

RecFrnd, readout format = INTEGER[2]

Interviewer text:

Who, with your permission, has hunted, hiked, or otherwise recreated on your wooded land in @W^aState@W in the past five years? Select all that apply.

Options:

1 if 'Friends' option was selected; otherwise 0

RecNeigh, readout format = INTEGER[2]

Interviewer text:

Who, with your permission, has hunted, hiked, or otherwise recreated on your wooded land in @W^aState@W in the past five years? Select all that apply.

Options:

1 if 'Neighbors' option was selected; otherwise 0

RecPubFree, readout format = INTEGER[2]

Interviewer text:

Who, with your permission, has hunted, hiked, or otherwise recreated on your wooded land in @W^aState@W in the past five years? Select all that apply.

Options:

1 if 'Public for free' option was selected; otherwise 0

RecPubFee, readout format = INTEGER[2]

Interviewer text:

Who, with your permission, has hunted, hiked, or otherwise recreated on your wooded land in @W^aState@W in the past five years? Select all that apply.

Options:

1 if 'Public for fee' option was selected; otherwise 0

RecOth, readout format = INTEGER[2]

Interviewer text:

Who, with your permission, has hunted, hiked, or otherwise recreated on your wooded land in @W^aState@W in the past five years? Select all that apply.

Options:

1 if 'Other' option was selected; otherwise 0

RecNone, readout format = INTEGER[2]

Interviewer text:

Who, with your permission, has hunted, hiked, or otherwise recreated on your wooded land in @W^aState@W in the past five years? Select all that apply.

Options:

1 if 'Nobody' was selected; otherwise 0

OtherPublic, readout format = STRING[40]

Interviewer text:

Please specify the others who recreated on your wooded land.

Access, readout format = INTEGER[2]

Interviewer text:

Is any of your wooded land in @W^aState@W posted to restrict access and/or use by the general public?

Options:

(1) Yes : YES

(3) No : NO

TranFuture, readout format = INTEGER[2]

Interviewer text:

How likely is it that you will sell or give away any of your wooded land in @W^aState@W in the next five years? Select only one.

Options:

- (1) Ex_unlikely : Extremely unlikely
- (2) Unlikely : Unlikely
- (3) Undecided : Undecided
- (4) Likely : Likely
- (5) Ex_likely : Extremely likely

Agreement, readout format = INTEGER[2]

Interviewer text:

Please indicate your level of agreement with the following statement: I want my wooded land to stay wooded. Select only one.

Options:

- (1) S_Disagree : Strongly Disagree
- (2) Disagree : Disagree
- (3) Neither_agree : Neither agree nor disagree
- (4) Agree : Agree
- (5) S_Agree : Strongly agree

Would_Sell, readout format = INTEGER[2]

Interviewer text:

Please indicate your level of agreement with the following statement: I would sell my land if I was offered a reasonable price. Select only one.

Options:

- (1) S_Disagree : Strongly Disagree
- (2) Disagree : Disagree
- (3) Neither_agree : Neither agree nor disagree
- (4) Agree : Agree
- (5) S_Agree : Strongly agree

MRELEASE, readout format = INTEGER[1]

Interviewer text:

Thank you, ^piRespdnt, for your cooperation. Would you like a summary of the results from this survey? This completes the survey!

Options:

- (1) Yes : YES
- (3) No : NO

Appendix 3: Focus Group Guide Used in Pretesting the U.S. Forest Service, National Woodland Owner Survey

NWOS Topic Guide

CA Noon

National Woodland Owner Survey Topic Guide – California Noon

IN THE HALLWAY, A SIGN THAT SAYS:

- Landowner Focus Groups [Room name or directions]

ON FLIP CHART IN THE ROOM:

- Landowner Focus Group

AT EACH SEAT:

- Name card
- Focus group guidelines sheet
- Highlighter
- Pen

AT MODERATOR'S SEAT:

- Clock
- Topic guide and handouts
- Extra pens and highlighters
- Name tag

IN THE MIDDLE OF THE TABLE:

- Markers
- Audio recorders

AS THEY SIT DOWN, ASK THEM TO:

- Fill out the name tents, front and back.
- Read and sign the disclosure statement that Jake has.
- Help yourselves to food.

ICE BREAKERS

- Who here has driven the farthest? Who the shortest?
- [Need more]

1. OVERVIEW [5 minutes]

WELCOME

Good afternoon. My name is Brett Butler and I will be the moderator for today's discussion. The one thing you all have in common is that you are landowners in Missouri. And over the next two hours, that is what we will be talking about – your land and more precisely, the part of your land that is covered by trees.

We will be holding similar conversations all across the U.S. throughout this month. Following these discussions, we will be implementing a large-scale mail-based survey. The purpose of today's discussions is to:

- Hear from you about your land, and
- Test some questions that might be part of the larger survey

First off, I would like to say thank you for coming. We really appreciate you taking time out of your schedules to be with us today.

MODERATOR INTRODUCTION

I am a researcher from the Family Forest Research Center and my job here today is to facilitate the discussion.

I will apologize upfront that at times you may get frustrated with me. During our discussion, you can ask me any questions that you want, but it is highly unlikely that I will answer them. But after the group discussion is over, I will be happy to answer any questions that I can.

I have a series of topics that I need to cover, so at times I may need to ask someone to wrap-up their thoughts and we'll have to move on.

DISCLOSURES

You will notice that there are two audio recorders on the table. I am sure there will be many interesting things said here today and we want to make sure we can capture all of it. These recordings are strictly for research purposes, they will not go beyond the research team. Individual statements will never be attributed to specific individuals, but we may say that landowners in Missouri said x.

INTRODUCE BACK TABLE

At the back table is Jake whom many of you have already met. He will be observing today's discussion. If you need anything to make you more comfortable, please let one of us know.

PERMISSIONS

The bathrooms are [give directions] and there is food on the back table. At anytime, feel free to use the facilities and to grab some food or drink.

GUIDELINES

To help facilitate today's discussion, here are a few guidelines. A copy is on the sheet in front of you.

HAVE THE FOLLOWING AS A PRINT OUT AT EACH PARTICIPANT'S SEAT

- Talk one at a time
- Talk in a loud, clear voice
- Avoid side conversations
- Work for "equal air time" so no one talks too much or too little
- When someone else says something, I would like to know who else agrees with it and who has something different to add
- Say what you believe, whether or not anyone else agrees with you
- Only one person up from the table at a time
- Remember, there are no wrong answers, we want **your** opinion
- And finally, if you have a cell phone, please turn it off or set it to vibrate

2. PARTICIPANT INTRODUCTIONS [10 minutes]

To start, I would like to go around the room and have each of you tell us:

WRITE THE FOLLOWING ON A FLIP CHART

- Your name
- Describe the land that you own
 - Where it is located (location)
 - How big it is (# of acres)
 - What percentage is covered by trees (% trees)
 - How long you have owned it (tenure)
 - If you live on it
 - Something that is special to you about it

What words do use to describe the part of your land with trees on it?

3. REASONS FOR OWNING [20 minutes]

What are the main reasons that you own your wooded land?

[Can you tell me more about that?]

[What do you mean by ___?]

[What else?]

I am handing out another piece of paper. This one should say "Reasons for Owning." Again, answer the questions and highlight any words or phrases that are confusing or you do not like.

PASS OUT SHEET B

Did anybody highlight anything? [What?] [Why?]

Did anyone leave any of the lines blank? [Why?]

Did we miss any reasons for owning on the list?

Is there anyone here who owns more than one parcel of wooded land? How did this effect how you answered this question?

Please turn over the sheet and place it in front of you.

4. COST-SHARE AND PROPERTY TAXES [15 minutes]

I am handing out another piece of paper. Again, answer the questions and highlight any words or phrases that are confusing or you do not like.

PASS OUT SHEET F. TIME HOW LONG IT TAKES.

Did anybody highlight anything? [What?] [Why?]

Who here has participated in a cost share program?

What did you like about? What did you not like about it?

For those who did not, had you hear about these programs before?

Why did you not participate?

Who here has participated in a current use program?

What did you like about? What did you not like about it?

For those who did not, had you hear about these programs before?

Why did you not participate?

Please turn over the sheet and place it in front of you.

5. PAST AND FUTURE ACTIVITIES [15 minutes]

I am handing out another piece of paper. Again, answer the questions and highlight any words or phrases that are confusing or you do not like.

PASS OUT SHEET J. TIME HOW LONG IT TAKES.

Did anybody highlight anything? [What?] [Why?]

[Go down the list and see who has done what.] Why? Why not?

Please turn over the sheet and place it in front of you.

6. CONCERNS [20 minutes]

Related to your wooded land, what are your greatest concerns? Let me hear your complaints.

[They can be small or large.]

[Can you tell me more about that?]

Here is another piece of paper. Again, answer the questions and highlight any words or phrases that are confusing or you do not like.

PASS OUT SHEET L

Did anybody highlight anything? [What?] [Why?]

Did anyone leave any of the lines blank? [Why?]

Please turn over the sheet and place it in front of you.

7. NEEDS [15 minutes]

Now this pen that each of you has been using is a magic wand. What is one or two things that you would wish for that would help you with your wooded land?

I am handing out another piece of paper. Again, answer the questions and highlight any words or phrases that are confusing or you do not like.

PASS OUT SHEET N

Did anybody highlight anything? [What?] [Why?]

Did anyone leave any of the lines blank? [Why?]

Please turn over the sheet and place it in front of you.

8. FUTURE [15 minutes]

Here is another piece of paper. Again, answer the questions and highlight any words or phrases that are confusing or you do not like.

PASS OUT SHEET M. TIME HOW LONG IT TAKES.

Did anybody highlight anything? [What?] [Why?]

Is anyone here planning to sell or pass on their land in the next 5 years or so?

How do you feel about that?

Related to question 2 on the sheet, was it difficult to answer?

Please turn over the sheet and place it in front of you.

9. HARVESTING [5 minutes]

Who here has harvested or removed trees from your land?

[If yes:] Why?

[If no:] Why not?

10. CONSERVATION EASEMENTS AND GREEN CERTIFICATION [Extra]

I am handing out another piece of paper [Conservation Easements and Green Certification].

Again, answer the questions and highlight any words or phrases that are confusing or you do not like.

PASS OUT SHEET E. TIME HOW LONG IT TAKES.

Did anybody highlight anything? [What?] [Why?]

Does anyone here have a conservation easement on their land?

What do you like about? What do you not like about it?

For those who did not, had you hear about these before?

Why did you not participate?

Does anyone here have their land green certified?

What do you like about? What do you not like about it?

For those who did not, had you hear about these before?

Why did you not participate?

Please turn over the sheet and place it in front of you.

11. HARVESTING OF TREES AND NON-TIMBER FOREST PRODUCTS

[Extra]

I am handing out another piece of paper. Again, answer the questions and highlight any words or phrases that are confusing or you do not like.

PASS OUT SHEET G

Did anybody highlight anything? [What?] [Why?]

Who here has harvested trees?

[IF YES:] What did you harvest? Why did you harvest them?

[IF NO:] Why not?

Who here has harvested non-timber forest products?

[IF YES:] What did you harvest? Why did you harvest them?

[IF NO:] Why not?

Please turn over the sheet and place it in front of you.

12. CLOSING [5 minutes]

Jake, do you have any questions you want to ask?

That is it. Thank you all very much for coming today. Please see Jake on the way out. He has an envelope for each of you.

Focus Group Summary Page

Study Purpose

To better understand the perceptions, opinions, beliefs, and attitudes of woodland owners.

Intended Outcomes

- Test survey instrument
- Gain depth into survey questions
- Probe additional areas

Reminders to Observers

- Silence your cell phone
- Try to be as quiet and innocuous as possible – become one with the room
- Do not ask questions or make comments during the focus group. You will be given a few minutes at the end to ask any questions.

Roadmap of Planned Activities

Item	Key	Topic	Length	Cum.		
1		Overview	5	5		
2		Participant introductions	10	15		
3	B	Objectives	20	35	G	
4	F	Cost share and prop. taxes	15	50	B	
5	J	Activities	15	65	W	
6	L	Concerns	20	85	G	
7	N	Needs	15	100	B	
8	M	Future	10	110	W	
9		Harvesting	5	115		
10	E	Easements and green cert.	0	115	B	
11	G	Harvesting	0	115	G	
12		Closing	5	120		

Appendix 4: Postcards and Cover Letters Used as Part of the 2011-2013 U.S. Forest Service, National Woodland Owner Survey

NATIONAL WOODLAND OWNER SURVEY
USDA FOREST SERVICE
160 HOLDSWORTH WAY
AMHERST, MA 01003

OFFICIAL BUSINESS

FIRST-CLASS MAIL
US POSTAGE PAID
AMHERST, MA
PERMIT NO. 5



Dear Landowner:

Within the next few days you should receive a questionnaire in the mail from the National Woodland Owner Survey. You are one of only a few landowners who will receive it. The questionnaire is designed to give you an opportunity to let policy makers, land managers, and public and private service providers better understand your concerns.

We invite you to participate in the survey by completing the questionnaire when it arrives. Your participation is voluntary. All responses will be held in strict confidentiality.

If you have any questions regarding the Survey, please call us toll-free at 1-855-233-3372, write us at USDA Forest Service, National Woodland Owner Survey, 160 Holdsworth Way, Amherst, MA 01003, or visit our website at www.fia.fs.fed.us/nwos.

A handwritten signature in black ink that reads "Brett J. Butler".

Brett J. Butler, Survey Director



**United States
Department of Agriculture**

**Forest
Service**

Dear Landowner:

We invite you to participate in the National Woodland Owner Survey conducted by the U.S. Forest Service. Your participation will help policy makers, land managers, and public and private service providers better understand and address the needs and concerns of America's private landowners.

Whether you own one acre of trees, thousands of acres, or something in between, we are interested in hearing from you. You were identified as a landowner from public ownership records. We are contacting only a few owners in each state. Because of the limited number of owners contacted, your answers are especially important. This survey is conducted once every 5 years to understand new topics and changes over time. If you responded during the last cycle, we ask that you respond again.

This is an official U.S. Forest Service survey, but your participation is voluntary. Your answers will be confidential and will be combined with others. The results will only be used to determine patterns and trends. Completing the questionnaire takes, on average, 25 minutes.

If you do not currently own land, please return the questionnaire using the postage-paid return envelope and write on the cover "No Land Owned."

If you would like to receive a copy of the results from this survey, write your name and address on the back of the return envelope.

We greatly appreciate your valuable assistance. If you have any questions please call us toll-free at 1-855-233-3372, visit our website at www.fia.fs.fed.us/nwos, or write us at USDA Forest Service, National Woodland Owner Survey, 160 Holdsworth Way, Amherst MA 01003.

A handwritten signature in black ink that reads "Brett J. Butler".

Brett J. Butler, Survey Director

NATIONAL WOODLAND OWNER SURVEY
USDA FOREST SERVICE
160 HOLDSWORTH WAY
AMHERST, MA 01003

OFFICIAL BUSINESS

FIRST-CLASS MAIL
US POSTAGE PAID
AMHERST, MA
PERMIT NO. 5



Dear Landowner:

About a week ago, a questionnaire was mailed to you asking about land that you own. You were randomly selected from county/municipal property ownership records.

If you have already completed and returned the questionnaire, please accept our sincere thanks. If not, we ask that you please do so today.

Although your participation is voluntary, we are especially grateful for your help because it is only by hearing from people like you that we can better understand the perspectives of those who control most of the woodland resources in the United States.

If you did not receive a questionnaire, or if it was misplaced, please call us toll-free at 1-855-233-3372 and we will send you another one.

A handwritten signature in black ink that reads "Brett J. Butler".

Brett J. Butler, Survey Director



**United States
Department of Agriculture**

**Forest
Service**

Dear Landowner:

Several weeks ago we sent you a questionnaire inviting you to participate in the National Woodland Owner Survey. You may have intended to complete the questionnaire but perhaps misplaced it or simply forget about it. If you have already returned the completed questionnaire, we apologize for contacting you again, sincerely thank you for your participation, and ask that you disregard this mailing.

However, if you have not returned your questionnaire, we ask you to consider doing so now. For your convenience we have enclosed another copy of the questionnaire and postage-paid return envelope. On average, the survey takes 25 minutes to complete.

Your participation is voluntary, but because of the limited number of landowners asked to participate in the survey, your answers are especially important. This survey is conducted once every 5 years. If you responded during the last cycle, we ask that you respond again.

Your responses will be kept strictly confidential, and will be combined with those of others. The results will be used by policy makers, land managers, and public and private service providers to better understand and address issues that are important to landowners like yourself.

If you do not currently own land, please return the questionnaire using the postage-paid return envelope and write on the cover "No Land Owned."

If you have questions regarding the survey, please call us toll-free at 1-855-233-3372, visit our website at www.fia.fs.fed.us/nwos, or write us at USDA Forest Service, National Woodland Owner Survey, 160 Holdsworth Way, Amherst MA 01003.

A handwritten signature in black ink that reads "Brett J. Butler".

Brett J. Butler, Survey Director

APPENDIX 5

Descriptions of Variables, Including Coding Values, In the QUEST Table of the 2011-2013 U.S. Forest Service, National Woodland Owner Survey Database

See Table 7 in text for general coding used for categorical variables. A copy of the actual survey questionnaire is in Appendix 1.

- 0.1. CN Sequence number. A unique sequence number used to identify each questionnaire record. The first four digits represent the questionnaire year (2011, 2012, or 2013), the next digit represents the response type (1=mail, 2=phone, and 3=online), and the final six digits are the sequential number.
- 0.2. CN_PHONE Phone sequence number. Sequence number generated for phone survey records. A value of -3 means this variable is not applicable to this record, i.e., the response was via mail or online.
- 0.3. CN_ONLINE Online sequence number. Sequence number generated by the online questionnaire tool. A value of -3 means this variable is not applicable to this record, i.e., the response was via mail or phone.
- 0.4. QUEST_STATE Questionnaire State. State in which the forest-land owner owns land. If the owner has land in more than one state, this value refers to the state to which the questionnaire responses apply. Values are based on the Bureau of the Census Federal Information Processing Standards (FIPS) two-digit State codes, but include sub-State demarcations for Alaska, Oklahoma, and Texas.

Code	Description
------	-------------

1	Alabama
2.1	Alaska (Coastal)
2.2	Alaska (Interior)
4	Arizona
5	Arkansas
6	California
8	Colorado
9	Connecticut
10	Delaware
12	Florida
13	Georgia
15	Hawaii
16	Idaho

17	Illinois
18	Indiana
19	Iowa
20	Kansas
21	Kentucky
22	Louisiana
23	Maine
24	Maryland
25	Massachusetts
26	Michigan
27	Minnesota
28	Mississippi
29	Missouri
30	Montana
31	Nebraska
32	Nevada
33	New Hampshire
34	New Jersey
35	New Mexico
36	New York
37	North Carolina
38	North Dakota
39	Ohio
40.1	Oklahoma (East)
40.2	Oklahoma (West)
41	Oregon
42	Pennsylvania
44	Rhode Island
45	South Carolina
46	South Dakota
47	Tennessee
48.1	Texas (East)
48.2	Texas (West)
49	Utah
50	Vermont
51	Virginia
53	Washington
54	West Virginia
55	Wisconsin
56	Wyoming

- 0.5. QUEST_NUM Questionnaire number. An identifier for the questionnaire unique within a State and questionnaire year.
- 0.6. QUEST_YEAR Questionnaire year. The year in which the questionnaire was administered: 2011, 2012, or 2013.
- 0.7. QUEST_VER Questionnaire version. The specific set of questions the respondent completed.

Code Description

- 5.0 Long form (standard; mail & online)
- 5.1 Long form (standard; mail)
- 5.01 Short form (phone)
- 5.02 Special Connecticut (mail)
- 5.03 Long form (Texas & Oklahoma West; mail)

0.8. RESPONSE_TYPE

Response type. Indicates which questionnaire-type the data are from.

Code Description

- 1 Mail
- 2 Phone
- 3 Online

0.9. FORM_ID Form ID. Unique identifier generated in the survey development software. Each identifier corresponds to a unique mail questionnaire.

0.10. POINT_COUNT Point count. Number of sample points on the ownership's property(ies) in the State of interest.

0.11. OWNER_CLASS_ADJ

Owner class code. A code to indicate the class in which the forest ownership belongs. Codes were determined by NWOS staff based on FIA field calls, survey responses, and other information.

Code Description

- 41 Corporate
- 42 Non-Governmental Conservation / Natural Resources Organization
- 43 Unincorporated Partnerships / Associations / Clubs
- 44 Native American (Indian)
- 45 Individual

0.12. FORINDCD Private owner industrial status code. Indicates whether the landowner owns a primary wood processing plant. A primary wood processing plant is any commercial operation

that originates the primary processing of wood on a regular and continuing basis.
Example include: pulp or paper mill, sawmill, panel board mill, post or pole mill.

Code Description

0	Land not owned by industrial owner with wood processing plant
1	Land is owned by industrial owner with wood processing plant

1. OWNTYPE Ownership type. The legal form of the ownership.

Code Description

-1	Item non-response
1	Individual
2	Joint, such as a husband and wife
3	Family partnership
4	Trust or estate
5	Corporation or business partnership
6	Other

1.1. OWNTYPE_OTH_TXT

Description of the "other" ownership type provided by the survey respondent.

2. OWNERS_NUMBER

Number of owners. Number of owners, i.e., individuals, who are a part of the ownership.

3.1. AC_LAND Acres of land. Acres of land owned in the State of interest by the respondent.

3.2. AC_WOOD Acres of wooded land. Acres of wooded land, or forest land, in the State of interest owned by the respondent.

3.3. PARC_MULTI Multiple parcels. Whether the respondent owns multiple, unconnected, wooded parcels.

Code Description

-3	Not asked
-1	Item non-response
0	No
1	Yes

3.3.1. PARC_MULTI_NUMBER

Number of multiple parcels. Number of wooded, unconnected parcels owned by the respondent.

Skip if

PARC_MULTI = 0

4. HOME Home. Whether the primary residence of the owner is on or within a mile of the ownership's wooded land.

Code Description

-1 Item non-response
0 No
1 Yes
8 Not applicable

5. CABIN Cabin. Whether the ownership has a secondary residence on or within a mile of its wooded land.

Code Description

-1 Item non-response
0 No
1 Yes
8 Not applicable

6. FARM Farm. Whether the ownership owns a farm or ranch.

Code Description

-3 Not asked
-1 Item non-response
0 No
1 Yes
8 Not applicable

6.1. FARM_NEAR Farm near wooded land. Whether the ownership's farm or ranch is on or within a mile of its wooded land.

Skip if

FARM = 0

Code Description

-2 Skipped due to skip pattern
-1 Item non-response
0 No
1 Yes

7.1. OBJ_BEA Ownership objective – beauty or scenery. The importance of beauty or scenery as a reason for owning wooded land in the State.

Code	Description
-1	Item non-response
1	Not important
2	Of little importance
3	Moderately important
4	Important
5	Very important
8	Not applicable

7.2 OBJ_NAT

Ownership objective – nature protection. The importance of nature protection as a reason for owning wooded land in the State.

Code	Description
-1	Item non-response
1	Not important
2	Of little importance
3	Moderately important
4	Important
5	Very important
8	Not applicable

7.3. OBJ_WAT

Ownership objective – water protection. The importance of water protection as a reason for owning wooded land in the State.

Code	Description
-1	Item non-response
1	Not important
2	Of little importance
3	Moderately important
4	Important
5	Very important
8	Not applicable

7.4. OBJ_WIL

Ownership objective – wildlife. The importance of wildlife habitat as a reason for owning wooded land in the State.

Code	Description
-1	Item non-response
1	Not important
2	Of little importance
3	Moderately important
4	Important

- 5 Very important
- 8 Not applicable

7.5. OBJ_INV Ownership objective – land investment. The importance of land investment as a reason for owning wooded land in the State.

- | Code | Description |
|-------------|----------------------|
| -1 | Item non-response |
| 1 | Not important |
| 2 | Of little importance |
| 3 | Moderately important |
| 4 | Important |
| 5 | Very important |
| 8 | Not applicable |

7.6. OBJ_HOM Ownership objective – part of home. The importance of having a home or primary residence associated with the wooded land as a reason for owning wooded land in the State.

- | Code | Description |
|-------------|----------------------|
| -1 | Item non-response |
| 1 | Not important |
| 2 | Of little importance |
| 3 | Moderately important |
| 4 | Important |
| 5 | Very important |
| 8 | Not applicable |

7.7. OBJ_CAB Ownership objective – part of my cabin or vacation home site. The importance of having a cabin or secondary residence associated with the wooded land as a reason for owning wooded land in the State.

- | Code | Description |
|-------------|----------------------|
| -1 | Item non-response |
| 1 | Not important |
| 2 | Of little importance |
| 3 | Moderately important |
| 4 | Important |
| 5 | Very important |
| 8 | Not applicable |

7.8. OBJ_FAR Ownership objective – part of my farm. The importance of having a farm or ranch associated with the wooded land as a reason for owning wooded land in the State.

Code	Description
-1	Item non-response
1	Not important
2	Of little importance
3	Moderately important
4	Important
5	Very important
8	Not applicable

7.9. OBJ_PRI Ownership objective – privacy. The importance of privacy as a reason for owning wooded land in the State.

Code	Description
-1	Item non-response
1	Not important
2	Of little importance
3	Moderately important
4	Important
5	Very important
8	Not applicable

7.10. OBJ_FAM Ownership objective – family. The importance of the wooded land for raising a family as a reason for owning wooded land in the State.

Code	Description
-1	Item non-response
1	Not important
2	Of little importance
3	Moderately important
4	Important
5	Very important
8	Not applicable

7.11. OBJ_CHILD Ownership objective – to pass land on to children. The importance of having wooded land to to pass land on to children or other heirs as a reason for owning wooded land in the State.

Code	Description
-1	Item non-response
1	Not important
2	Of little importance
3	Moderately important
4	Important

- 5 Very important
- 8 Not applicable

7.12. OBJ_FIRE Ownership objective – firewood. The importance of firewood production as a reason for owning wooded land in the State.

- | Code | Description |
|-------------|----------------------|
| -1 | Item non-response |
| 1 | Not important |
| 2 | Of little importance |
| 3 | Moderately important |
| 4 | Important |
| 5 | Very important |
| 8 | Not applicable |

7.13. OBJ_TIM Ownership objective – timber. The importance of timber production as a reason for owning wooded land in the State.

- | Code | Description |
|-------------|----------------------|
| -1 | Item non-response |
| 1 | Not important |
| 2 | Of little importance |
| 3 | Moderately important |
| 4 | Important |
| 5 | Very important |
| 8 | Not applicable |

7.14. OBJ_NTFF Ownership objective – nontimber forest products. The importance of collection of nontimber forest products as a reason for owning wooded land in the State.

- | Code | Description |
|-------------|----------------------|
| -1 | Item non-response |
| 1 | Not important |
| 2 | Of little importance |
| 3 | Moderately important |
| 4 | Important |
| 5 | Very important |
| 8 | Not applicable |

7.15. OBJ_HUNT Ownership objective – hunting. The importance of hunting as a reason for owning wooded land in the State.

Code	Description
-1	Item non-response
1	Not important
2	Of little importance
3	Moderately important
4	Important
5	Very important
8	Not applicable

7.16. OBJ_REC Ownership objective – recreation. The importance of recreation, other than hunting, as a reason for owning wooded land in the State.

Code	Description
-1	Item non-response
1	Not important
2	Of little importance
3	Moderately important
4	Important
5	Very important
8	Not applicable

7.17. OBJ_OTH Ownership objective – other. The importance of an other reason for owning wooded land in the State.

Code	Description
-1	Item non-response
1	Not important
2	Of little importance
3	Moderately important
4	Important
5	Very important
8	Not applicable

7.17.1. OBJ_OTH_TXT Ownership objective – other description. Description of the “other” reason for owning.

8.1.1. ACQ_TYPE_PURCH

Acquisition method – purchased. Forest land was acquired by purchase.

Code	Description
-1	Item non-response
0	No
1	Yes

8.1.2. ACQ_TYPE_INHERIT

Acquisition method – inherited. Forest land was acquired by inheritance.

Code	Description
-1	Item non-response
0	No
1	Yes

8.1.3. ACQ_TYPE_GIFT

Acquisition method – received as gift. Forest land was acquired as a gift.

Code	Description
-1	Item non-response
0	No
1	Yes

8.1.4. ACQ_TYPE_OTHER

Acquisition method – other. Forest land was acquired by other means.

Code	Description
-1	Item non-response
0	No
1	Yes

8.1.4.1. ACQ_TYPE_OTH_TXT

Acquisition method – other description. Description of the “other” acquisition source.

8.2.1. ACQ_SRC_PARENT

Acquisition source – parents. Wooded land was acquired from parents and/or spouse's parents.

Code	Description
-3	Not asked
-1	Item non-response
0	No
1	Yes

8.2.2. ACQ_SRC_SPOUSE

Acquisition source – spouse. Wooded land was acquired from spouse.

Code	Description
-3	Not asked
-1	Item non-response

0	No
1	Yes

8.2.3. ACQ_SRC_FAM

Acquisition source – other family. Wooded land was acquired from another family member

Code	Description
-3	Not asked
-1	Item non-response
0	No
1	Yes

8.2.4. ACQ_SRC_INDIV

Acquisition source – other individual. Wooded land was acquired from an other individual(s).

Code	Description
-3	Not asked
-1	Item non-response
0	No
1	Yes

8.2.5. ACQ_SRC_BUS

Acquisition source – business. Wooded land was acquired from a business

Code	Description
-3	Not asked
-1	Item non-response
0	No
1	Yes

8.2.6. ACQ_SRC_GOV

Acquisition source – government. Wooded land was acquired from a government agency

Code	Description
-3	Not asked
-1	Item non-response
0	No
1	Yes

8.2.7. ACQ_SRC_OTH

Acquisition source – other. Wooded land was acquired from an other source.

Code	Description
-3	Not asked
-1	Item non-response
0	No
1	Yes

8.2.7.1. ACQ_SRC_OTH_TXT

Acquisition source – other description. Description of the “other” land acquisition source.

8.3. ACQ_YEAR Acquisition year. Year the respondent personally acquired their woodland.

9.1. TRAN Past land transfer. Number of times respondent has sold or given away wooded land.

Code	Description
-3	Not asked
-1	Item non-response
0	Never
1	Once (1 time)
2	2 to 5 times
6	6 or more times

9.2.1. TRAN_TO_CHILD

Transfer to – children. Transferred wooded land to children or other heir(s).

Skip if

TRAN = 0

Code	Description
-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

9.2.2. TRAN_TO_FAM

Transfer to – family. Transferred wooded land to another family member(s).

Skip if

TRAN = 0

Code	Description
-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

9.2.3. TRAN_TO_INDIV

Transfer to – another individual. Transferred wooded land to another individual(s).

Skip if

TRAN = 0

Code	Description
-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

9.2.4. TRAN_TO_BUS

Transfer to – business. Transferred wooded land to a business

Skip if

TRAN = 0

Code	Description
-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

9.2.5. TRAN_TO_GOV

Transfer to – government. Transferred wooded land to a government agency.

Skip if

TRAN = 0

Code	Description
-3	Not asked
-2	Skipped due to skip pattern

-1	Item non-response
0	No
1	Yes

9.2.6. TRAN_TO_OTH

Transfer to – other. Transferred wooded land to another entity.

Skip if

TRAN = 0

Code	Description
-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

9.2.6.1. TRAN_TO_OTH_TXT

Transfer to – other description. Description of the other entity to which land was transferred.

9.3. TRAN_RECENT Recent transfer. Land was transferred in the past five years.

Skip if

TRAN = 0

Code	Description
-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

10.1 MAN_OWN Manager – owner. The owner/survey respondent makes most of the management decisions for the wooded land.

Code	Description
-1	Item non-response
0	No
1	Yes

10.2 MAN_SPOUSE Manager – spouse. The respondent’s spouse makes most of the management decisions for the wooded land

Code Description

-1 Item non-response
0 No
1 Yes

10.3 MAN_CHILD Manager – child. The respondent’s child/children makes most of the management decisions for the wooded land.

Code Description

-1 Item non-response
0 No
1 Yes

10.4 MAN_PARENT Manager – parent. The respondent’s parent(s) makes most of the management decisions for the wooded land.

Code Description

-1 Item non-response
0 No
1 Yes

10.5 MAN_FAM Manager – family member. Another family member makes most of the management decisions for the wooded land.

Code Description

-1 Item non-response
0 No
1 Yes

10.6 MAN_PARTNER

Manager – business partner. The respondent’s business partner makes most of the management decisions for the wooded land.

Code Description

-1 Item non-response
0 No
1 Yes

10.7 MAN_FORESTER

Manager – forester. The owner’s land manager or forester makes most of the management decisions for the wooded land.

Code	Description
-1	Item non-response
0	No
1	Yes

10.8 MAN_OTH Manager – Other decision maker. Another person makes most of the management decisions for the wooded land.

Code	Description
-1	Item non-response
0	No
1	Yes

10.8.1. MAN_OTH_TXT

Manager – other description. Description of the “other” decision maker.

11. MAN_PLAN Management Plan. Does respondent have a written management/stewardship plan for their wooded land.

Code	Description
-1	Item non-response
0	No
1	Yes

11.1. MAN_PLAN_IMPLEMENT

Management plan implementation. Has the management plan been implemented.

Skip if

MAN_PLAN = 0

Code	Description
-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

11.2. MAN_PLAN_WRITER

Management plan writer. Who wrote the management plan.

Skip if

MAN_PLAN = 0

Code	Description
-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
1	The owner
2	Private forester
3	Forest industry forester
4	State or local government forester (QUEST_VER 5.03 text: “[State] Forest Service Employee”)
5	Federal government forester (QUEST_VER 5.03 text: “NRCS, Soil & Water Conservation District, or Farm Service Agency employee”)
6	Other
7	Extension agent or other university employee (QUEST_VER 5.03 only)
8	Other state employee (QUEST_VER 5.03 only)

11.2.1. MAN_PLAN_WRITER_OTH_TXT

Management plan writer – other description. Description of the “other” management plan writer.

11.3.1 MAN_PLAN_NO_NONEED

No plan – no need. The reason for not having a management plan is the owner feels they don’t want or need one.

Skip if

MAN_PLAN = 1

Code	Description
-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

11.3.2 MAN_PLAN_NO_BUSY

No plan – too busy. The reason for not having a management plan is the owner is too busy.

Skip if

MAN_PLAN = 1

Code	Description
-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

11.3.3 MAN_PLAN_NO_EXPENSIVE

No plan – too expensive. The reason for not having a management plan is the owner feels they are too expensive.

Skip if

MAN_PLAN = 1

Code	Description
-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

11.3.4 MAN_PLAN_NO_COMPLEX

No plan – too complicated. The reason for not having a management plan is the owner feels they are too complicated.

Skip if

MAN_PLAN = 1

Code	Description
-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

11.3.5 MAN_PLAN_NO_OTH

No plan – other. The reason for not having a management plan is due to another reason.

Skip if

MAN_PLAN = 1

Code	Description
-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

11.3.5.1. MAN_PLAN_NO_OTH_TXT

No plan – other description. Description of the other reason for not having a management plan.

12.1.1a. CUT_FIRE_PERS

Cut firewood for personal use. Firewood has been cut or removed from the ownership's wooded land for personal use.

Code	Description
-3	Not asked
-1	Item non-response
0	No
1	Yes

12.1.1b. CUT_FIRE_SALE

Cut firewood for sale. Firewood has been cut or removed from the ownership's wooded land for sale.

Code	Description
-3	Not asked
-1	Item non-response
0	No
1	Yes

12.1.1c. CUT_FIRE_OTH

Cut firewood for other reasons. Firewood has been cut or removed from the ownership's wooded land for another reason.

Code	Description
-3	Not asked
-1	Item non-response
0	No
1	Yes

12.1.1d. CUT_FIRE_NO

No firewood cut. No firewood has been cut or removed from the ownership's wooded land.

Code	Description
-3	Not asked
-1	Item non-response
0	No
1	Yes

12.1.2a. CUT_LOG_PERS

Cut logs for personal use. Logs have been cut or removed from the ownership's wooded land for personal use.

Code	Description
-3	Not asked
-1	Item non-response
0	No
1	Yes

12.1.2b. CUT_LOG_SALE

Cut logs for sale. Logs have been cut or removed from the ownership's wooded land for sale.

Code	Description
-3	Not asked
-1	Item non-response
0	No
1	Yes

12.1.2c. CUT_LOG_OTH

Cut logs for other reasons. Logs have been cut or removed from the ownership's wooded land for another reason.

Code	Description
-3	Not asked
-1	Item non-response
0	No
1	Yes

12.1.2d. CUT_LOG_NO

No logs cut. No logs have been cut or removed from the ownership's wooded land.

Code	Description
-3	Not asked
-1	Item non-response
0	No
1	Yes

12.1.3a. CUT_CHIP_PERS

Cut wood chips for personal use. Wood chips have been cut or removed from the ownership's wooded land for personal use.

Code	Description
-3	Not asked
-1	Item non-response
0	No
1	Yes

12.1.3b. CUT_CHIP_SALE

Cut wood chips for sale. Wood chips have been cut or removed from the ownership's wooded land for sale.

Code	Description
-3	Not asked
-1	Item non-response
0	No
1	Yes

12.1.3c. CUT_CHIP_OTH

Cut wood chips for other reasons. Wood chips have been cut or removed from the ownership's wooded land for another reason.

Code	Description
-3	Not asked
-1	Item non-response
0	No
1	Yes

12.1.3d. CUT_CHIP_NO

No wood chips cut. No wood chips have been cut or removed from the ownership's wooded land.

Code	Description
-3	Not asked
-1	Item non-response

0	No
1	Yes

12.1.4a. CUT_UNWAN_PERS

Unwanted trees cut for personal use. Unwanted trees have been cut or removed from the ownership's wooded land for personal use.

Code	Description
-3	Not asked
-1	Item non-response
0	No
1	Yes

12.1.4b. CUT_UNWAN_SALE

Unwanted trees for sale. Unwanted trees have been cut or removed from the ownership's wooded land for sale.

Code	Description
-3	Not asked
-1	Item non-response
0	No
1	Yes

12.1.4c. CUT_UNWAN_OTH

Unwanted trees for other reasons. Unwanted trees have been cut or removed from the ownership's wooded land for other reasons.

Code	Description
-3	Not asked
-1	Item non-response
0	No
1	Yes

12.1.4d. CUT_UNWAN_NO

No unwanted trees cut. No unwanted trees have been cut or removed from the ownership's wooded land.

Code	Description
-3	Not asked
-1	Item non-response
0	No
1	Yes

12.1.5a. CUT_OTHER_PERS

Other wood for personal use. Other types of wood products have been cut or removed from the ownership's wooded land for personal.

Code	Description
-3	Not asked
-1	Item non-response
0	No
1	Yes

12.1.5b. CUT_OTHER_SALE

Other wood for sale. Other types of wood products have been cut or removed from the ownership's wooded land for sale.

Code	Description
-3	Not asked
-1	Item non-response
0	No
1	Yes

12.1.5c. CUT_OTHER_OTH

Other wood for other reasons. Other types of wood products have been cut or removed from the ownership's wooded land for other reasons.

Code	Description
-3	Not asked
-1	Item non-response
0	No
1	Yes

12.1.5d. CUT_OTHER_NO

No other items cut. No other types of wood products have been cut or removed from the ownership's wooded land.

Code	Description
-3	Not asked
-1	Item non-response
0	No
1	Yes

12.1.5.1. CUT_OTH_TXT

Other wood description. Description of the other wood products cut or removed from the wooded land.

12.1.6a. CUT_FENCE_PERS

Cut fence posts for personal use. Fence posts have been cut or removed from the ownership's wooded land for personal use. QUEST_VER 5.03 only.

Code	Description
-3	Not asked
-1	Item non-response
0	No
1	Yes

12.1.6b. CUT_FENCE_SALE

Cut fence posts for sale. Fence posts have been cut or removed from the ownership's wooded land for sale. QUEST_VER 5.03 only.

Code	Description
-3	Not asked
-1	Item non-response
0	No
1	Yes

12.1.6c. CUT_FENCE_OTH

Cut fence posts for other reasons. Fence posts have been cut or removed from the ownership's wooded land for other reasons. QUEST_VER 5.03 only.

Code	Description
-3	Not asked
-1	Item non-response
0	No
1	Yes

12.1.6d. CUT_FENCE_NO

No Fence posts cut. No fence posts have been cut or removed from the ownership's wooded land. QUEST_VER 5.03 only.

Code	Description
-3	Not asked
-1	Item non-response
0	No
1	Yes

12.2. CUT_FORESTER

Cut forester. A professional forester was used to plan, mark, contract, or oversee one or more of the cuts.

Skip if

All CUT_XXX_NO variables = 1

Code	Description
-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes
8	Not applicable
9	Don't know

12.3. CUT_LOGGER

Cut logger. A certified or master logger was used for harvesting one or more of the wood products.

Skip if

All CUT_XXX_NO variables = 1

Code	Description
-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes
8	Not applicable
9	Don't know

13.1.1 NTFP_EDIB_PERS

Edible NTFPs for personal use. Edible nontimber forest products have been collected from the ownerships wooded land for personal use.

Code	Description
-3	Not asked
-1	Item non-response
0	No
1	Yes

13.1.2 NTFP_EDIB_SALE

Edible NTFPs for sale. Edible nontimber forest products have been collected from the ownerships wooded land for sale.

Code	Description
-3	Not asked
-1	Item non-response
0	No
1	Yes

13.1.3 NTFP_EDIB_NO

No edible NTFPs. No edible nontimber forest products have been collected from the ownerships wooded land.

Code	Description
-3	Not asked
-1	Item non-response
0	No
1	Yes

13.2.1 NTFP_MEDI_PERS

Medicinal NTFPs for personal use. Medicinal nontimber forest products have been collected from the ownerships wooded land for personal use.

Code	Description
-3	Not asked
-1	Item non-response
0	No
1	Yes

13.2.2 NTFP_MEDI_SALE

Medicinal NTFPS for sale. Medicinal nontimber forest products have been collected from the ownerships wooded land for sale.

Code	Description
-3	Not asked
-1	Item non-response
0	No
1	Yes

13.2.3 NTFP_MEDI_NO

No medicinal NTFPs. No medicinal nontimber forest products have been collected from the ownerships wooded land.

Code	Description
-3	Not asked
-1	Item non-response

0	No
1	Yes

13.3.1 NTFP_LAND_PERS

Landscaping NTFPs for personal use. Landscaping nontimber forest products have been collected from the ownerships wooded land for personal use.

Code	Description
-3	Not asked
-1	Item non-response
0	No
1	Yes

13.3.2 NTFP_LAND_SALE

Landscaping NTFPs for sale. Landscaping nontimber forest products have been collected from the ownerships wooded land for sale.

Code	Description
-3	Not asked
-1	Item non-response
0	No
1	Yes

13.3.3 NTFP_LAND_NO

No landscaping NTFPs. No landscaping nontimber forest products have been collected from the ownerships wooded land.

Code	Description
-3	Not asked
-1	Item non-response
0	No
1	Yes

13.4.1 NTFP_DECO_PERS

Decorative NTFPs for personal use. Decorative nontimber forest products have been collected from the ownerships wooded land for personal use.

Code	Description
-3	Not asked
-1	Item non-response
0	No
1	Yes

13.4.2 NTFP_DECO_SALE

Decorative NTFPs for sale. Decorative nontimber forest products have been collected from the ownerships wooded land for sale.

Code	Description
-3	Not asked
-1	Item non-response
0	No
1	Yes

13.4.3 NTFP_DECO_NO

No decorative NTFPs. No decorative nontimber forest products have been collected from the ownerships wooded land.

Code	Description
-3	Not asked
-1	Item non-response
0	No
1	Yes

13.5.1 NTFP_OTH_PERS

Other NTFPs for personal use. Other nontimber forest products have been collected from the ownerships wooded land for personal use.

Code	Description
-3	Not asked
-1	Item non-response
0	No
1	Yes

13.5.2 NTFP_OTH_SALE

Other NTFPs for sale. Other nontimber forest products have been collected from the ownerships wooded land for sale.

Code	Description
-3	Not asked
-1	Item non-response
0	No
1	Yes

13.5.3 NTFP_OTH_NO

No other NTFPs. No other nontimber forest products have been collected from the ownerships wooded land.

Code	Description
-3	Not asked
-1	Item non-response
0	No
1	Yes

13.5.4 NTFP_OTH_TXT

No other NTFPs description. Description of the other nontimber forest products collected.

14.1. ACT_CUT_SALE

Activity – cut trees for sale. Trees have been cut for sale from the ownership's wooded land in the preceding five years.

Code	Description
-1	Item non-response
0	No
1	Yes

14.2. ACT_CUT_PERS

Activity – Cut trees for own use. Trees have been cut/removed for personal use from the ownership's wooded land in the preceding five years.

Code	Description
-1	Item non-response
0	No
1	Yes

14.3. ACT_NTFP

Activity – NTFPs. Nontimber forest products have been collected from the ownership's wooded land in the preceding five years.

Code	Description
-1	Item non-response
0	No
1	Yes

14.4. ACT_RED_FIRE

Activity – fire hazard reduction. Fire hazard reduction activities had occurred on the ownership's wooded land in the preceding five years.

Code	Description
-1	Item non-response

0	No
1	Yes

14.5. ACT_CONTROL_BURN

Activity – controlled burn. A controlled burn or prescribe fire has occurred on the ownership's wooded land in the preceding five years.

Code	Description
-1	Item non-response
0	No
1	Yes

14.6. ACT_INVA

Activity – invasive plant mitigation. Activities to reduce or eliminate invasive plants had occurred on the ownership's wooded land in the preceding five years.

Code	Description
-1	Item non-response
0	No
1	Yes

14.7. ACT_INS

Activity – Insect mitigation. Activities to reduce or eliminate unwanted insects or diseases have occurred on the ownership's wooded land in the preceding five years.

Code	Description
-1	Item non-response
0	No
1	Yes

14.8. ACT_ROAD

Activity – roads. Road building or maintenance activities had occurred on the ownership's wooded land in the preceding five years.

Code	Description
-1	Item non-response
0	No
1	Yes

14.9. ACT_TRAIL

Activity – trails. Trail building or maintenance activities had occurred on the ownership's wooded land in the preceding five years.

Code	Description
-1	Item non-response
0	No
1	Yes

14.10. ACT_WILD Activity – wildlife habitat. Activities to improve wildlife habitat had occurred on the ownership’s wooded land in the preceding five years.

Code	Description
-1	Item non-response
0	No
1	Yes

14.11. ACT_GRAZE Activity – grazing. Live stock grazing had occurred on the ownership’s wooded land in the preceding five years.

Code	Description
-1	Item non-response
0	No
1	Yes

14.12. ACT_NONE Activity – none. None of the above activities had occurred on the ownership’s wooded land in the preceding five years.

Code	Description
-1	Item non-response
0	No
1	Yes

15.1. FUT_CUT_SALE

Future – cut trees for sale. The likelihood of trees being cut and/or removed for sale from the ownership’s wooded land in the subsequent five years.

Code	Description
-3	Not asked
-1	Item non-response
1	Extremely unlikely
2	Unlikely
3	Undecided
4	Likely
5	Extremely likely

15.2. FUT_CUT_PERS

Future – cut trees for personal use. The likelihood of trees being cut and/or removed for personal use from the ownership’s wooded land in the subsequent five years.

Code	Description
-3	Not asked

-1	Item non-response
1	Extremely unlikely
2	Unlikely
3	Undecided
4	Likely
5	Extremely likely

15.3. FUT_NTFF Future – NTPFs. The likelihood of nontimber forest products being collected from the ownership’s wooded land in the subsequent five years.

Code	Description
-3	Not asked
-1	Item non-response
1	Extremely unlikely
2	Unlikely
3	Undecided
4	Likely
5	Extremely likely

15.4. FUT_RED_FIRE Future – fire hazard reduction. The likelihood of fire hazard reduction activities occurring on the ownership’s wooded land in the subsequent five years.

Code	Description
-3	Not asked
-1	Item non-response
1	Extremely unlikely
2	Unlikely
3	Undecided
4	Likely
5	Extremely likely

15.5. FUT_CONTROL_BURN Future – controlled burn. The likelihood of a controlled burn or prescribed fire on the ownership’s wooded land in the subsequent five years.

Code	Description
-3	Not asked
-1	Item non-response
1	Extremely unlikely
2	Unlikely
3	Undecided
4	Likely
5	Extremely likely

15.6. FUT_INVA Future – invasive plant mitigation. The likelihood of activities to reduce or eliminate invasive plants occurring on the ownership’s wooded land in the subsequent five years.

Code	Description
-3	Not asked
-1	Item non-response
1	Extremely unlikely
2	Unlikely
3	Undecided
4	Likely
5	Extremely likely

15.7. FUT_INS Future – insect mitigation. The likelihood of activities to reduce or eliminate unwanted insects or diseases occurring on the ownership’s wooded land in the subsequent five years.

Code	Description
-3	Not asked
-1	Item non-response
1	Extremely unlikely
2	Unlikely
3	Undecided
4	Likely
5	Extremely likely

15.8. FUT_ROAD Future – roads. The likelihood of road building or maintenance activities occurring on the ownership’s wooded land in the subsequent five years.

Code	Description
-3	Not asked
-1	Item non-response
1	Extremely unlikely
2	Unlikely
3	Undecided
4	Likely
5	Extremely likely

15.9. FUT_TRAIL Future – trails. The likelihood of trail building or maintenance activities occurring on the ownership’s wooded land in the subsequent five years.

Code	Description
-3	Not asked
-1	Item non-response

- 1 Extremely unlikely
- 2 Unlikely
- 3 Undecided
- 4 Likely
- 5 Extremely likely

15.10. FUT_WILD Future –wildlife habitat. The likelihood of wildlife habitat improvement activities occurring on the ownership’s wooded land in the subsequent five years.

Code Description

- 3 Not asked
- 1 Item non-response
- 1 Extremely unlikely
- 2 Unlikely
- 3 Undecided
- 4 Likely
- 5 Extremely likely

15.11. FUT_GRAZE Future – grazing. The likelihood of livestock grazing occurring on the ownership’s wooded land in the subsequent five years.

Code Description

- 3 Not asked
- 1 Item non-response
- 1 Extremely unlikely
- 2 Unlikely
- 3 Undecided
- 4 Likely
- 5 Extremely likely

16. LEASE Lease. Has the ownership leased or collected money (other than from logging) for allowing people to use their wooded land.

Code Description

- 1 Item non-response
- 0 No
- 1 Yes

16.1.1. LEASE_ACT_HUNT Lease – hunting. Wooded land was leased for hunting.

Skip if

LEASE = 0

Code Description

- 3 Not asked

- 2 Skipped due to skip pattern
- 1 Item non-response
- 0 No
- 1 Yes

16.1.2. LEASE_ACT_REC

Lease – recreation. Wooded land was leased for recreation other than hunting.

Skip if

LEASE = 0

Code Description

- 3 Not asked
- 2 Skipped due to skip pattern
- 1 Item non-response
- 0 No
- 1 Yes

16.1.3. LEASE_ACT_GRAZE

Lease – grazing. Wooded land was leased for livestock grazing.

Skip if

LEASE = 0

Code Description

- 3 Not asked
- 2 Skipped due to skip pattern
- 1 Item non-response
- 0 No
- 1 Yes

16.1.4. LEASE_ACT_CONS

Lease – land conservation. Wooded land was leased for land conservation, such as the Conservation Reserve or Environmental Quality Incentives Programs.

Skip if

LEASE = 0

Code Description

- 3 Not asked
- 2 Skipped due to skip pattern

-1	Item non-response
0	No
1	Yes

16.1.5. LEASE_ACT_CARB

Lease – carbon. Wooded land was leased for carbon sequestration.

Skip if

LEASE = 0

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

16.1.6. LEASE_ACT_WAT

Lease – water. Wooded land was leased for public water supply protection.

Skip if

LEASE = 0

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

16.1.7. LEASE_ACT_WILD.

Lease – wildlife. Wooded land was leased for wildlife habitat/biodiversity purposes.

Skip if

LEASE = 0

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response

0	No
1	Yes

16.1.8. LEASE_ACT_OTH

Lease – other. Wooded land was leased for another reason.

Skip if

LEASE = 0

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

16.1.8.1. LEASE_ACT_OTH_TXT

Lease – other description. Description of the other leasing activity.

16.1.9. LEASE_ACT_LOG

Lease – logging. Wooded land was leased for logging. QUEST_VER 5.03 only.

Skip if

LEASE = 0

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

16.2. LEASE_5YR

Lease – recent. Wooded land was leased in the preceding five years.

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

17.1. COST_KNOW Cost-share knowledge. Respondent's familiarity with cost-share programs.

Code	Description
-3	Not asked
-1	Item non-response
1	Not at all familiar
2	Slightly familiar
3	Somewhat familiar
4	Moderately familiar
5	Extremely familiar

17.2. COST Cost-share participation. Has the respondent participated in a cost-share program.

Code	Description
-1	Item non-response
0	No
1	Yes
9	Don't know

17.2.1. COST_5YR Cost-share recent. Has respondent participated in a cost-share program in the preceding five years.

Skip if

COST = 0 or 9

Code	Description
-3	Not asked
-2	Skipped due to skip pattern
-1	item non-response
0	No
1	Yes

18.1. CERT_KNOW Certification knowledge. Respondent's familiarity with green certification programs.

Code	Description
-3	Not asked
-1	Item non-response
1	Not at all familiar
2	Slightly familiar
3	Somewhat familiar
4	Moderately familiar
5	Extremely familiar

18.2. CERT Certified land. Is any of the respondent's wooded land green certified.

Code	Description
-1	Item non-response
0	No
1	Yes
9	Don't know

19.1. TAX_KNOW Tax program knowledge. Respondent's familiarity with preferential property tax programs.

Code	Description
-3	Not asked
-1	Item non-response
1	Not at all familiar
2	Slightly familiar
3	Somewhat familiar
4	Moderately familiar
5	Extremely familiar

19.2. TAX Tax program participation. Is any of the respondent's wooded land enrolled in a preferential property tax program.

Code	Description
-1	Item non-response
0	No
1	Yes
9	Don't know

20.1. EASE_KNOW Easement knowledge. Respondent's familiarity with the concept of selling or donating development rights.

Code	Description
-3	Not asked
-1	Item non-response
1	Not at all familiar
2	Slightly familiar
3	Somewhat familiar
4	Moderately familiar
5	Extremely familiar

20.2. EASE Easement participation. Have development rights been sold or given away on the ownership's wooded land.

Code	Description
-1	Item non-response
0	No
1	Yes
9	Don't know

20.3. EASE_5YR Future easement. The likelihood of the ownership selling or giving away development rights in the subsequent five years.

Skip if
EASE = 1

Code	Description
-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
1	Extremely unlikely
2	Unlikely
3	Undecided
4	Likely
5	Extremely likely
8	Not applicable

21.1 Recreation (Who)

“Who, with your permission, has hunted, hiked, or otherwise recreated on your wooded land in <state> in the past 5 years? Check all that apply.”

21.1.1. REC_WHO_OWN

Recreationist – owner. The owner and/or their spouse has recreated on the ownership's wooded land in the preceding five years.

Code	Description
-1	Item non-response
0	No
1	Yes

21.1.2. REC_WHO_CHILD Recreationist – children. The children of the owner(s) had recreated on the ownership's wooded land in the preceding five years.

Code	Description
-1	Item non-response

0	No
1	Yes

21.1.3. REC_WHO_FAM Recreationist – other family. Other family members had recreated on the ownership's wooded land in the preceding five years

Code	Description
-1	Item non-response
0	No
1	Yes

21.1.4. REC_WHO_FRND Recreationist – friends. Friends of the owner(s) had recreated on the ownership's wooded land in the preceding five years.

Code	Description
-1	Item non-response
0	No
1	Yes

21.1.5. REC_WHO_NEIGH Recreationist – neighbors. Neighbors had recreated on the ownership's wooded land, with the owners' permission, in the preceding five years.

Code	Description
-1	Item non-response
0	No
1	Yes

21.1.6. REC_WHO_PUB_FREE

Recreationist – free public. Members of the general public had recreated on the ownership's wooded land, for free with the owners' permission, in the preceding five years.

Code	Description
-1	Item non-response
0	No
1	Yes

21.1.7. REC_WHO_PUB_FEE

Recreationist – paying public. Members of the general public had recreated on the ownership's wooded land, for a fee, in the preceding five years.

Code	Description
-1	Item non-response

0	No
1	Yes

21.1.8. REC_WHO_OTH

Recreationist – other. Other people had recreated on the ownership’s wooded land, with the owners’ permission, in the preceding five years.

Code	Description
-1	Item non-response
0	No
1	Yes

21.1.8.1. REC_WHO_OTH_TXT Recreationist – other description. Description of the other people recreating on the ownership’s wooded land.

21.1.9. REC_WHO_NONE Recreationist – none. No one, with the owners’ permission, had recreated on the ownership’s wooded land in the preceding five years.

Code	Description
-1	Item non-response
0	No
1	Yes

21.2.1. REC_HOW_HUNT

Recreate – hunting. Hunting had occurred on the ownership’s wooded land, with the owners’ permission, in the preceding five years.

Skip if

REC_WHO_NONE = 1

Code	Description
-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

21.2.2. REC_HOW_FISH

Recreate – fishing. Fishing had occurred on the ownership’s wooded land, with the owners’ permission, in the preceding five years.

Skip if

REC_WHO_NONE = 1

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

21.2.3. REC_HOW_HIKE

Recreate – hiking. Hiking and/or walking had occurred on the ownership's wooded land, with the owners' permission, in the preceding five years.

Skip if

REC_WHO_NONE = 1

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

21.2.4. REC_HOW_BIKE

Recreate – bicycling. Bicycling had occurred on the ownership's wooded land, with the owners' permission, in the preceding five years.

Skip if

REC_WHO_NONE = 1

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

21.2.5. REC_HOW_CAMP

Recreate – camping. Camping had occurred on the ownership's wooded land, with the owners' permission, in the preceding five years.

Skip if

REC_WHO_NONE = 1

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

21.2.6. REC_HOW_HORSE

Recreate – horseback riding. Horseback riding had occurred on the ownership's wooded land, with the owners' permission, in the preceding five years.

Skip if

REC_WHO_NONE = 1

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

21.2.7. REC_HOW_SKI

Recreate – Skiing or snowshoeing. Skiing and/or snowshoeing had occurred on the ownership's wooded land, with the owners' permission, in the preceding five years.

Skip if

REC_WHO_NONE = 1

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

21.2.8. REC_HOW_OHV

Recreate – off-road vehicles. Recreation involving off-road vehicles, such as ATVs or snowmobiles, had occurred on the ownership's wooded land, with the owners' permission, in the preceding five years.

Skip if

REC_WHO_NONE = 1

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

21.2.9. REC_HOW_OTH

Recreate – Other. Other recreation activities had occurred on the ownership's wooded land, with the owners' permission, in the preceding five years.

Skip if

REC_WHO_NONE = 1

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

21.2.9.1. REC_HOW_OTH_TXT

Recreate – other specification. Specification of the other recreational activity.

22. POST

Posting. Is any of the ownership's wooded land posted to restrict access.

Code Description

-1	Item non-response
0	No
1	Yes

22.2.1. POST_RESTR_TRES

Posting restriction – trespassing. Posting restricts trespassing on the ownership's wooded land.

Skip if

POST = 0

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response

0	No
1	Yes

22.2.2. POST_RESTR_HUNT

Posting restriction – hunting. Posting restricts hunting on the ownership's wooded land.

Skip if

POST = 0

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

22.2.3. POST_RESTR_VEH

Posting restriction – motorized vehicles. Posting restricts motorized vehicles on the ownership's wooded land.

Skip if

POST = 0

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

22.2.4. POST_RESTR_OTH

Posting restriction – other. Posting restricts other uses of the ownership's wooded land.

Skip if

POST = 0

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

22.2.4.1. POST_RESTR_OTH_TXT

Posting restriction – other specification. Specification of the other uses restricted by posting on the ownership's wooded land.

23. ADVICE

Advice. The ownership had received advice or information regarding their wooded land in the preceding five years.

Code	Description
-------------	--------------------

-1	Item non-response
0	No
1	Yes

23.1.1. ADV_TOP_INS

Advice topic – insects. The ownership had received advice or information regarding insects or plant diseases on their wooded land in the preceding five years.

Skip if

ADVICE = 0

Code	Description
-------------	--------------------

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

23.1.2. ADV_TOP_WILD

Advice topic – wildlife or wildlife habitat. The ownership had received advice or information regarding wildlife or wildlife habitat on their wooded land in the preceding five years.

Skip if

ADVICE = 0

Code	Description
-------------	--------------------

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

23.1.3. ADV_TOP_TIM

Advice topic – timber. The ownership had received advice or information regarding timber production on their wooded land in the preceding five years.

Skip if

ADVICE = 0

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

23.1.4. ADV_TOP_CONS

Advice topic – conservation. The ownership had received advice or information regarding land conservation for their wooded land in the preceding five years.

Skip if

ADVICE = 0

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

23.1.5. ADV_TOP_FIRE

Advice topic – fire. The ownership had received advice or information regarding fire conservation on their wooded land in the preceding five years.

Skip if

ADVICE = 0

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

23.1.6. ADV_TOP_OTH

Advice topic – other. The ownership had received advice or information regarding another topic for their wooded land in the preceding five years.

Skip if

ADVICE = 0

Code Description

-3	Not asked
----	-----------

-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

23.1.6.1. ADV_TOP_OTH_TXT

Advice topic – other specification. Specification of the other advice topic.

23.2.1. ADV_METH_TALK

Advice method – talked. Advice or information was received by talking to someone.

Skip if

ADVICE = 0

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

23.2.2. ADV_METH_VISIT

Advice method – visit. Advice or information was received by someone visiting the ownership's wooded land.

Skip if

ADVICE = 0

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

23.2.3. ADV_METH_WRIT

Advice method – written material. Advice or information was received from a brochure or other written material.

Skip if

ADVICE = 0

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response

0	No
1	Yes

23.2.4. ADV_METH_NET

Advice method – Internet. Advice or information was received by accessing the Internet.

Skip if

ADVICE = 0

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

23.2.5. ADV_METH_CONF

Advice method – conference. Advice or information was received by attending a conference or workshop.

Skip if

ADVICE = 0

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

23.2.6. ADV_METH_OTH

Advice method – other. Advice or information was received by another method.

Skip if

ADVICE = 0

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

23.2.6.1. ADV_METH_OTH_TXT

Advice method – other specification. Specification of the other advice method.

23.3.1. ADV_SRC_STATE

Advice source – State. Advice or information was received from a State or local government employee.

Skip if

ADVICE = 0

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

23.3.2. ADV_SRC_FED

Advice source – Federal. Advice or information was received from a Federal government employee.

Skip if

ADVICE = 0

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

23.3.3. ADV_SRC_PRIV

Advice source – private consultant. Advice or information was received from a private consultant.

Skip if

ADVICE = 0

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

23.3.4. ADV_SRC_OWNER

Advice source – another landowner. Advice or information was received from another landowner.

Skip if

ADVICE = 0

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

23.3.5. ADV_SRC_FAM

Advice source – family. Advice or information was received from a family member or friend.

Skip if

ADVICE = 0

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

23.3.6. ADV_SRC_OTH

Advice source – other. Advice or information was received from another source.

Skip if

ADVICE = 0

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

23.3.6.1. ADV_SRC_OTH_TXT

Advice source – other specification. Specification of the other advice source.

23.3.7. ADV_SRC_EXT

Advice source – extension. Advice or information was received from an extension agent or other university employee. QUEST_VER 5.03 only

Skip if

ADVICE = 0

Code	Description
-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

23.3.8. ADV_SRC_STATE_OTH

Advice source – other State. Advice or information was received from another state employee. QUEST_VER 5.03 only.

Skip if

ADVICE = 0

Code	Description
-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

24.1. HELP_WOOD Help – woodland management. The helpfulness of receiving advice or information on woodland management.

Code	Description
-3	Not asked
-1	Item non-response
1	Of no help
2	Of little help
3	Moderately helpful
4	Helpful
5	Very helpful
8	Not applicable
9	Don't know

24.2. HELP_TRAN Help – land transfer. The helpfulness of receiving advice or information on how to transfer land to the next generation.

Code	Description
-3	Not asked
-1	Item non-response
1	Of no help
2	Of little help
3	Moderately helpful

- 4 Helpful
- 5 Very helpful
- 8 Not applicable
- 9 Don't know

24.3. HELP_EASE Help – easements. The helpfulness of receiving advice or information on selling or giving away development rights.

- | Code | Description |
|-------------|--------------------|
| -3 | Not asked |
| -1 | Item non-response |
| 1 | Of no help |
| 2 | Of little help |
| 3 | Moderately helpful |
| 4 | Helpful |
| 5 | Very helpful |
| 8 | Not applicable |
| 9 | Don't know |

24.4. HELP_COST Help – cost-sharing. The helpfulness of cost-sharing for woodland management.

- | Code | Description |
|-------------|--------------------|
| -3 | Not asked |
| -1 | Item non-response |
| 1 | Of no help |
| 2 | Of little help |
| 3 | Moderately helpful |
| 4 | Helpful |
| 5 | Very helpful |
| 8 | Not applicable |
| 9 | Don't know |

24.5. HELP_TAX Help –tax policies. The helpfulness of more favorable tax policies.

- | Code | Description |
|-------------|--------------------|
| -3 | Not asked |
| -1 | Item non-response |
| 1 | Of no help |
| 2 | Of little help |
| 3 | Moderately helpful |
| 4 | Helpful |
| 5 | Very helpful |

- 8 Not applicable
- 9 Don't know

24.6. HELP_TIM Help – Stronger timber markets. The helpfulness of stronger timber markets.

- | Code | Description |
|-------------|--------------------|
| -3 | Not asked |
| -1 | Item non-response |
| 1 | Of no help |
| 2 | Of little help |
| 3 | Moderately helpful |
| 4 | Helpful |
| 5 | Very helpful |
| 8 | Not applicable |
| 9 | Don't know |

24.7. HELP_OTH Help – Other item. The helpfulness of some other information or advice source, policy, or something else.

- | Code | Description |
|-------------|--------------------|
| -3 | Not asked |
| -1 | Item non-response |
| 1 | Of no help |
| 2 | Of little help |
| 3 | Moderately helpful |
| 4 | Helpful |
| 5 | Very helpful |
| 8 | Not applicable |
| 9 | Don't know |

24.7.1. HELP_OTH_TXT

Help – other specification. Specification of the information or advice source, policy, or something else the ownership would find helpful.

25.1. HELP_TYPE_TALK

Help type – talk. The preferred method for receiving information is talking to someone.

- | Code | Description |
|-------------|--------------------|
| -3 | Not asked |
| -1 | Item non-response |
| 0 | No |
| 1 | Yes |

25.2. HELP_TYPE_VISIT

Help type – visit. The preferred method for receiving information is to have someone visit her/his land.

Code	Description
-3	Not asked
-1	Item non-response
0	No
1	Yes

25.3. HELP_TYPE_WRIT

Help type – written. The preferred method for receiving information is through written materials, such as brochures or other publications.

Code	Description
-3	Not asked
-1	Item non-response
0	No
1	Yes

25.4. HELP_TYPE_NET

Help type – Internet. The preferred method for receiving information is by accessing resources online.

Code	Description
-3	Not asked
-1	Item non-response
0	No
1	Yes

25.5. HELP_TYPE_CONF

Help type – conference. The preferred method for receiving information is through conferences or workshops.

Code	Description
-3	Not asked
-1	Item non-response
0	No
1	Yes

25.6. HELP_TYPE_OTH

Help type – other. A preferred method for receiving information is through another method.

Code	Description
-3	Not asked
-1	Item non-response
0	No
1	Yes

25.6.1. HELP_TYPE_OTH_TXT

Help type – other specification. Specification of the other preferred method for receiving advice or information.

25.7. HELP_TYPE_NA

Help type – none. The respondent does not want or need advice or information.

Code	Description
-3	Not asked
-1	Item non-response
0	No
1	Yes

26.1. CNC_AIR

Concern – air pollution. The level of concern regarding XX for the ownership's wooded land.

Code	Description
-3	Not asked
-1	Item non-response
1	No concern
2	Of little concern
3	Moderate concern
4	Concern
5	Great concern
8	Not applicable

26.2. CNC_OHV

Concern –off-highway vehicles. The level of concern regarding damage or noise from off-highway vehicles on the ownership's wooded land.

Code	Description
-3	Not asked
-1	Item non-response
1	No concern
2	Of little concern
3	Moderate concern
4	Concern

- 5 Great concern
- 8 Not applicable

26.3. CNC_ANIM Concern – animals. The level of concern regarding damage from animals on the ownership's wooded land.

- | Code | Description |
|-------------|--------------------|
| -3 | Not asked |
| -1 | Item non-response |
| 1 | No concern |
| 2 | Of little concern |
| 3 | Moderate concern |
| 4 | Concern |
| 5 | Great concern |
| 8 | Not applicable |

26.4. CNC_DEV Concern – development. The level of concern regarding development of nearby lands for the ownership's wooded land.

- | Code | Description |
|-------------|--------------------|
| -3 | Not asked |
| -1 | Item non-response |
| 1 | No concern |
| 2 | Of little concern |
| 3 | Moderate concern |
| 4 | Concern |
| 5 | Great concern |
| 8 | Not applicable |

26.5. CNC_WAT_LACK Concern – lack of water. The level of concern regarding drought or lack of water for the ownership's wooded land.

- | Code | Description |
|-------------|--------------------|
| -3 | Not asked |
| -1 | Item non-response |
| 1 | No concern |
| 2 | Of little concern |
| 3 | Moderate concern |
| 4 | Concern |
| 5 | Great concern |
| 8 | Not applicable |

26.6. CNC_CLIM Concern –climate change. The level of concern regarding global climate change for the ownership's wooded land.

Code	Description
-3	Not asked
-1	Item non-response
1	No concern
2	Of little concern
3	Moderate concern
4	Concern
5	Great concern
8	Not applicable

26.7. CNC_TAX Concern – property taxes. The level of concern regarding high property taxes for the ownership's wooded land.

Code	Description
-3	Not asked
-1	Item non-response
1	No concern
2	Of little concern
3	Moderate concern
4	Concern
5	Great concern
8	Not applicable

26.8. CNC_INVA Concern – invasive plants. The level of concern regarding invasive plants on the ownership's wooded land.

Code	Description
-3	Not asked
-1	Item non-response
1	No concern
2	Of little concern
3	Moderate concern
4	Concern
5	Great concern
8	Not applicable

26.9. CNC_HEIR Concern – heirs. The level of concern regarding keeping their wooded land intact for future generations.

Code	Description
-3	Not asked
-1	Item non-response
1	No concern
2	Of little concern
3	Moderate concern
4	Concern
5	Great concern
8	Not applicable

26.10. CNC_DUMP Concern – dumping. The level of concern regarding misuse of their wooded land, such as vandalism or dumping.

Code	Description
-3	Not asked
-1	Item non-response
1	No concern
2	Of little concern
3	Moderate concern
4	Concern
5	Great concern
8	Not applicable

26.11. CNC_TRES Concern – trespassing. The level of concern regarding trespassing or poaching on the ownership's wooded land.

Code	Description
-3	Not asked
-1	Item non-response
1	No concern
2	Of little concern
3	Moderate concern
4	Concern
5	Great concern
8	Not applicable

26.12. CNC_INS Concern – insects. The level of concern regarding unwanted insects or diseases on the ownership's wooded land.

Code	Description
-3	Not asked
-1	Item non-response
1	No concern

2	Of little concern
3	Moderate concern
4	Concern
5	Great concern
8	Not applicable

26.13. CNC_WAT_POL

Concern – water pollution. The level of concern regarding water pollution on the ownership’s wooded land.

Code	Description
-3	Not asked
-1	Item non-response
1	No concern
2	Of little concern
3	Moderate concern
4	Concern
5	Great concern
8	Not applicable

26.14. CNC_FIRE

Concern – wildfire. The level of concern regarding wildfire on the ownership’s wooded land.

Code	Description
-3	Not asked
-1	Item non-response
1	No concern
2	Of little concern
3	Moderate concern
4	Concern
5	Great concern
8	Not applicable

26.15. CNC_STORM

Concern – storms. The level of concern regarding wind or ice storms for the ownership’s wooded land.

Code	Description
-3	Not asked
-1	Item non-response
1	No concern
2	Of little concern
3	Moderate concern
4	Concern

- 5 Great concern
- 8 Not applicable

26.16. CNC_OTH Concern – other. The level of concern regarding other issues on/for the ownership’s wooded land.

Code	Description
-3	Not asked
-1	Item non-response
1	No concern
2	Of little concern
3	Moderate concern
4	Concern
5	Great concern
8	Not applicable

26.16.1. CNC_OTH_TXT

Concern – other specification. Specification of the other concern.

27. TRAN_FUT Transfer future. Likelihood of the ownership selling or giving away any of its wooded land in subsequent 5 years?

Code	Description
-1	Item non-response
1	Extremely unlikely
2	Unlikely
3	Undecided
4	Likely
5	Extremely likely

27.1.1. TRAN_FUT_TO_CHILD

Transfer – children. The owners’ children will receive the wooded land that is transferred.

Skip if

TRAN = 1, 2, or 3

Code	Description
-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

27.1.2. TRAN_FUT_TO_FAM

Transfer – family. Another family member(s) will receive the wooded land that is transferred.

Skip if

TRAN = 1, 2, or 3

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

27.1.3. TRAN_FUT_TO_INDIV

Transfer – individual. Another individual(s) will receive the wooded land that is transferred.

Skip if

TRAN = 1, 2, or 3

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

27.1.4. TRAN_FUT_TO_BUS

Transfer – business. A business will receive the wooded land that is transferred.

Skip if

TRAN = 1, 2, or 3

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

27.1.5. TRAN_FUT_TO_GOV

Transfer – government. A government agency will receive the wooded land that is transferred.

Skip if

TRAN = 1, 2, or 3

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

27.1.6. TRAN_FUT_TO_DONTKNOW

Transfer – don't know. The respondent is uncertain who will receive the wooded land that is transferred.

Skip if

TRAN = 1, 2, or 3

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

27.1.7. TRAN_FUT_TO_OTH

Transfer – Another type of recipient will receive the wooded land that is transferred.

Skip if

TRAN = 1, 2, or 3

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

27.1.1.1. TRAN_FUT_TO_CHILD_NUMBER

Transfer – number of children. The number of children that will received the wooded land that is transferred.

Skip if

TRAN_FUT_TO_CHILD = 0

27.1.2.1. TRAN_FUT_TO_FAM_NUMBER

Transfer – number of family members. The number of other family members that will received the wooded land that is transferred.

Skip if

TRAN_FUT_TO_FAMILY = 0

27.1.7.1. TRAN_FUT_TO_OTH_TXT

Transfer – other specification. Specification of the other intended recipient.

27.2.1. TRAN_FUT_WHY_READY

Transfer reason – ready. The wooded land is being transferred because the owners are ready to give away.

Skip if

TRAN = 1, 2, or 3

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

27.2.2. TRAN_FUT_WHY_COST

Transfer reason – cost. The wooded land is being transferred because its is too expensive to hold or maintain.

Skip if

TRAN = 1, 2, or 3

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

27.2.3. TRAN_FUT_WHY_MONEY

Transfer reason – money. The wooded land is being transferred because the owners need the money.

Skip if

TRAN = 1, 2, or 3

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

27.2.4. TRAN_FUT_WHY_MARKET

Transfer reason – market value. The wooded land is being transferred because of the high market value.

Skip if

TRAN = 1, 2, or 3

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

27.2.5. TRAN_FUT_WHY_NOINTEREST

Transfer reason – no interest. The wooded land is being transferred because the owners are no longer interested in owning it.

Skip if

TRAN = 1, 2, or 3

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

27.2.6. TRAN_FUT_WHY_INV

Transfer reason – investment strategy. The wooded land is being transferred because it is part of the owners' investment strategy.

Skip if

TRAN = 1, 2, or 3

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response

0	No
1	Yes

27.2.7. TRAN_FUT_WHY_OTH

Transfer reason – other. The wooded land is being transferred because of another reason.

Skip if

TRAN = 1, 2, or 3

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

27.2.7.1. TRAN_FUT_WHY_OTH_TXT

Transfer reason – other specification. Specification of the other reason for transferring wooded land.

28.1. ATT_WOODDED Attitude – keep wooded. Level of agreement of the respondent towards the statement “I want my wooded land to stay wooded.”

Code Description

-1	Item non-response
1	Strongly disagree
2	Disagree
3	Neither agree nor disagree
4	Agree
5	Strongly agree

28.2. ATT_SELL Attitude – sell. Level of agreement of the respondent towards the statement “I would sell my land if I was offered a reasonable price.”

Code Description

-1	Item non-response
1	Strongly disagree
2	Disagree
3	Neither agree nor disagree
4	Agree
5	Strongly agree

29.1 OWN1_RET Owner 1 – retired. Is owner 1 retired.

Skip if

OWNTYPE = 5 or 6

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

29.2 OWN2_RET Owner 2 – retired. Is owner 2 retired.

Skip if

OWNTYPE = 5 or 6

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

30.1.1 OWN1_SOC_NWOS

Owner 1 - Collapsed occupational categories derived from the Standard Occupation Classification (SOC) codes.

Skip if

OWNTYPE = 5 or 6

Code Description

-5	Uncodable occupation (e.g., "Wal-Mart")
-4	Illegible entry
-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	Retired
1	Officials and Managers
2	Professionals
3	Technicians
4	Sales Workers
5	Administrative support

6	Craft Workers
7	Operatives
8	Laborers and Helpers
9	Service Workers
10	Farmer
11	Homemaker
12	Disabled
13	Student
99	Unemployed

30.1.2 OWN1_SOC_MAJ

Owner 1 - Two-digit major occupation group according to the Bureau of Labor Statistics Standard Occupational Classification (SOC) system. Aside from what is listed here, refer to the SOC manual for a full list of codes.

Skip if

OWNTYPE = 5 or 6

Code Description

-5	Uncodable occupation (e.g., "Wal-Mart")
-4	Illegible entry
-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
90	Tree Farmer
91	Retired
92	Land Manager
93	Student
94	Handyman
95	Disabled
96	Unemployed
97	Educator
98	Civil Servant
99	Housewife or Homemaker

30.1.3 OWN1_SOC_SUB

Owner 1 - Four digit occupation sub-group according to the Bureau of Labor Statistics Standard Occupational Classification (SOC) system. Aside from what is listed here, refer to the SOC manual for a full list of codes.

Skip if

OWNTYPE = 5 or 6

Code Description

-5	Uncodable occupation (e.g., "Wal-Mart")
-4	Illegible entry
-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response

30.1.4 OWN1_OCC Owner 1 – occupation. Occupation of owner 1.

Skip if

OWNTYPE = 5 or 6

30.2.1 OWN2_SOC_NWOS

Owner 2 - Collapsed occupational categories derived from the Standard Occupation Classification (SOC) codes.

Skip if

OWNTYPE = 5 or 6

Code Description

-5	Uncodable occupation (e.g., "Wal-Mart")
-4	Illegible entry
-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	Retired
1	Officials and Managers
2	Professionals
3	Technicians
4	Sales Workers
5	Administrative support
6	Craft Workers
7	Operatives
8	Laborers and Helpers
9	Service Workers
10	Farmer
11	Homemaker
12	Disabled
13	Student
99	Unemployed

30.2.2 OWN2_SOC_MAJ

Owner 2 - Two-digit major occupation group according to the Bureau of Labor Statistics Standard Occupational Classification (SOC) system. Aside from what is listed here, refer to the SOC manual for a full list of codes.

Skip if

OWNTYPE = 5 or 6

Code Description

-5	Uncodable occupation (e.g., "Wal-Mart")
-4	Illegible entry
-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
90	Tree Farmer
91	Retired
92	Land Manager
93	Student
94	Handyman
95	Disabled
96	Unemployed
97	Educator
98	Civil Servant
99	Housewife or Homemaker

30.2.3 OWN2_SOC_SUB

Owner 2 - Four digit occupation sub-group according to the Bureau of Labor Statistics Standard Occupational Classification (SOC) system. Aside from what is listed here, refer to the SOC manual for a full list of codes.

Skip if

OWNTYPE = 5 or 6

Code Description

-5	Uncodable occupation (e.g., "Wal-Mart")
-4	Illegible entry
-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response

30.2.4 OWN2_OCC Owner 2 – occupation. Occupation of owner 2.

Skip if

OWNTYPE = 5 or 6

31.1. OWN1_AGE Owner 1 – age. Age of owner 1.

Skip if

OWNTYPE = 5 or 6

31.2. OWN2_AGE Owner 2 – age. Age of owner 2.

Skip if

OWNTYPE = 5 or 6

32.1. OWN1_GENDER

Owner 1 – gender. Gender of owner 1.

Skip if

OWNTYPE = 5 or 6

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
1	Male
2	Female

32.2. OWN2_GENDER

Owner 2 – gender. Gender of owner 2.

Skip if

OWNTYPE = 5 or 6

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
1	Male
2	Female

33.1. OWN1_EDU Owner 1 – education. Highest level of formal education attained by owner 1.

Skip if

OWNTYPE = 5 or 6

Code	Description
-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
1	Less than 12 th grade
2	High school/GED
3	Some college
4	Associate degree
5	Bachelor's degree
6	Advanced degree

33.2. OWN2_EDU Owner 2 – education. Highest level of formal education attained by owner 2.

Skip if

OWNTYPE = 5 or 6

Code	Description
-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
1	Less than 12 th grade
2	High school/GED
3	Some college
4	Associate degree
5	Bachelor's degree
6	Advanced degree

34.1. OWN1_ETH Owner 1 – ethnicity. Owner 1 is of Hispanic or Latino origin.

Skip if

OWNTYPE = 5 or 6

Code	Description
-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

34.2. OWN2_ETH Owner 2 – ethnicity. Owner 2 of is Hispanic or Latino origin.

Skip if

OWNTYPE = 5 or 6

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

35.1.1. OWN1_RACE_INDIAN

Owner 1 race – American Indian. Owner 1 is American Indian or an Alaskan Native.

Skip if

OWNTYPE = 5 or 6

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

35.1.2. OWN1_RACE_ASIAN

Owner 1 – Asian. Owner 1 is Asian.

Skip if

OWNTYPE = 5 or 6

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

35.1.3. OWN1_RACE_BLACK

Owner 1 – Black. Owner 1 is Black or African-American.

Skip if

OWNTYPE = 5 or 6

Code Description

-3	Not asked
-2	Skipped due to skip pattern

- 1 Item non-response
- 0 No
- 1 Yes

35.1.4. OWN1_RACE_HAWAIIAN.

Owner 1 – Hawaiian. Owner 1 is a native Hawaiian or other Pacific Islander.

Skip if

OWNTYPE = 5 or 6

Code Description

- 3 Not asked
- 2 Skipped due to skip pattern
- 1 Item non-response
- 0 No
- 1 Yes

35.1.5. OWN1_RACE_WHITE.

Owner 1 – White. Owner 1 is White.

Skip if

OWNTYPE = 5 or 6

Code Description

- 3 Not asked
- 2 Skipped due to skip pattern
- 1 Item non-response
- 0 No
- 1 Yes

35.2.1. OWN2_RACE_INDIAN

Owner 2 – American Indian. Owner 2 is American Indian or an Alaskan Native.

Skip if

OWNTYPE = 5 or 6

Code Description

- 3 Not asked
- 2 Skipped due to skip pattern
- 1 Item non-response
- 0 No
- 1 Yes

35.2.2. OWN2_RACE_ASIAN

Owner 2 – Asian. Owner 2 is Asian.

Skip if

OWNTYPE = 5 or 6

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

35.2.3. OWN2_RACE_BLACK

Owner 2 – Black. Owner 2 is Black or African-American.

Skip if

OWNTYPE = 5 or 6

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

35.2.4. OWN2_RACE_HAWAIIAN

Owner 2 – Hawaiian. Owner 2 is a native Hawaiian or other Pacific Islander.

Skip if

OWNTYPE = 5 or 6

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

35.2.5. OWN2_RACE_WHITE

Owner 2 – White. Owner 2 is White.

Skip if

OWNTYPE = 5 or 6

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
0	No
1	Yes

36. INCOME Income. Ownership's annual household income.

Skip if

OWNTYPE = 5 or 6

Code Description

-3	Not asked
-2	Skipped due to skip pattern
-1	Item non-response
20	Less than \$25,000
25	\$25,000 to \$49,999
50	\$50,000 to \$99,999
100	\$100,000 to \$199,999
200	\$200,000 or more

37. INC_WOOD Income from wooded land. Percentage of ownership's annual household income derived from their wooded land.

Skip if

OWNTYPE = 5 or 6

38. COM_TXT Comments. Any additional comments or concerns the respondent wanted to share.

APPENDIX 6

Descriptions of variables, including coding values, in the FOREST_AREA table of the 2011-2013 USDA Forest Service, National Woodland Owner Survey Database

1 CN Sequence number. A unique sequence number used to identify each record or row in the table.

2 STATECD_NWOS

NWOS State code. State in which the forest-land owner owns land. If the owner has land in more than one state, this value refers to the state to which the questionnaire responses apply. Values are based on the Bureau of the Census Federal Information Processing Standards (FIPS) two-digit State codes, but include sub-State demarcations for Alaska, Oklahoma, and Texas.

Code Description

1	Alabama
2.1	Alaska (Coastal)
2.2	Alaska (Interior)
4	Arizona
5	Arkansas
6	California
8	Colorado
9	Connecticut
10	Delaware
12	Florida
13	Georgia
15	Hawaii
16	Idaho
17	Illinois
18	Indiana
19	Iowa
20	Kansas
21	Kentucky
22	Louisiana
23	Maine
24	Maryland
25	Massachusetts
26	Michigan
27	Minnesota
28	Mississippi

- 29 Missouri
- 30 Montana
- 31 Nebraska
- 32 Nevada
- 33 New Hampshire
- 34 New Jersey
- 35 New Mexico
- 36 New York
- 37 North Carolina
- 38 North Dakota
- 39 Ohio
- 40.1 Oklahoma (East)
- 40.2 Oklahoma (West)
- 41 Oregon
- 42 Pennsylvania
- 44 Rhode Island
- 45 South Carolina
- 46 South Dakota
- 47 Tennessee
- 48.1 Texas (East)
- 48.2 Texas (West)
- 49 Utah
- 50 Vermont
- 51 Virginia
- 53 Washington
- 54 West Virginia
- 55 Wisconsin
- 56 Wyoming

3 NWOS_YEAR NWOS year. The nominal year of the NWOS cycle to which the data corresponds, i.e., 2013 for the 2011-2013 iteration.

4 OWNER_CAT Ownership category. A code to indicate the category of forest ownership. These represent a collapsing of some FIA ownership codes.

Code Description

Family Family and individuals

Corporate Business corporations

Tribal Native American (Indian)

NGO Non-Governmental Conservation / Natural Resources
Organization

Unincorporated Unincorporated partnerships/associations/clubs

Federal Federal government agencies

State State government agencies

Local Municipal and local government agencies

5 AREA Forest area. Estimate of forest land area in acres.

6 VAR_AREA Variance of forest area. Estimate of the variance, in acres², associated with the estimate of forest land area.

APPENDIX 7

Example of Calculations Used to Make Estimates for the 2011-2013 U.S. Forest Service, National Woodland Owner Survey

Example 1. Estimation of number of family forest ownerships in State X

The question: How many family forest ownerships are there in State X?

- The Estimated area of family forest land in State X = $\hat{A}_h = 10,000,000$ acres = 1.0×10^7
- Variance associated with this estimate = $\text{var}(\hat{A}_j) = 4.0 \times 10^{10}$
- a_i = area of forest land owned by landowner i
- d_i = all forest ownerships = 1

There were 50 randomly selected sample points with the following attributes:

Point	Land use	Ownership class	Ownership ID	a_i
1	Forest	Federal	100	450000
2	Nonforest	-	-	-
3	Forest	Family	109	15000
4	Forest	Family	118	25
5	Nonforest	-	-	-
6	Nonforest	-	-	-
7	Nonforest	-	-	-
8	Forest	Family	110	10000
9	Forest	Family	116	100
10	Nonforest	-	-	-
11	Nonforest	-	-	-
12	Forest	Business	105	25000
13	Nonforest	-	-	-
14	Nonforest	-	-	-
15	Nonforest	-	-	-
16	Forest	Family	108	25000
17	Forest	Business	106	1500
18	Forest	Family	111	5000
19	Forest	Family	119	10
20	Forest	Family	114	500
21	Forest	Family	113	900
22	Forest	Family	121	7
23	Forest	Family	122	3
24	Forest	Business	105	25000
25	Nonforest	-	-	-
26	Nonforest	-	-	-
27	Nonforest	-	-	-
28	Nonforest	-	-	-
29	Forest	State	103	1000000
30	Forest	State	104	500000

Point	Land use	Ownership class	Ownership ID	a_i
31	Forest	Business	107	40
32	Forest	Local	101	50
33	Forest	State	102	1500000
34	Forest	State	103	1000000
35	Forest	Family	115	400
36	Nonforest	-	-	-
37	Forest	Family	112	4500
38	Forest	State	102	1500000
39	Forest	Family	117	30
40	Nonforest	-	-	-
41	Nonforest	-	-	-
42	Nonforest	-	-	-
43	Forest	Family	108	25000
44	Forest	State	102	1500000
45	Forest	Family	120	10
46	Nonforest	-	-	-
47	Forest	Family	109	15000
48	Forest	Family	108	25000
49	Nonforest	-	-	-
50	Nonforest	-	-	-

Step 1. Select all sample points that were forested and family-owned

Point	Land use	Ownership class	Ownership ID	a_i
3	Forest	Family	109	15000
4	Forest	Family	118	25
8	Forest	Family	110	10000
9	Forest	Family	116	100
16	Forest	Family	108	25000
18	Forest	Family	111	5000
19	Forest	Family	119	10
20	Forest	Family	114	500
21	Forest	Family	113	900
22	<i>Forest</i>	<i>Family</i>	<i>121</i>	<i>7</i>
23	Forest	Family	122	3
35	Forest	Family	115	400
37	Forest	Family	112	4500
39	Forest	Family	117	30
43	Forest	Family	108	25000
45	Forest	Family	120	10
47	Forest	Family	109	15000
48	Forest	Family	108	25000

Step 2. Calculate number of ownerships

$$\hat{N}_{hd} = \hat{A}_{FIA} \frac{1}{n_h} \sum_{i=1}^{n_h} \frac{d_i}{a_i}$$

Where $d_i = 1$ because we want to know the total number of ownerships in the stratum.

Ownership		
ID	a_i	$1/a_i$
108	25000	0.000040
108	25000	0.000040
108	25000	0.000040
109	15000	0.000067
109	15000	0.000067
110	10000	0.000100
111	5000	0.000200
112	4500	0.000222
113	900	0.001111
114	500	0.002000
115	400	0.002500
116	100	0.010000
117	30	0.033333
118	25	0.040000
119	10	0.100000
120	10	0.100000
121	7	0.142857
122	3	0.333333
SUM		0.765910

$$n_h = 18$$

$$\bar{x} = \frac{0.765910}{18} = 0.042551$$

$$\hat{N}_{hd} = 1.0 \times 10^7 \times 0.042551 = 425,506$$

Step 3. Calculate variance for the estimated number of family forest ownerships

$$\widehat{var}(\hat{N}_{hd}) = \hat{A}_{FIA}^2 \times \widehat{var}(\bar{x}) + \bar{x}^2 \times \widehat{var}(\hat{A}_{FIA})$$

Point	Owner ID	a_i	x_i	$(x_i - \bar{x})^2$
16	108	25000	0.000040	0.001807
43	108	25000	0.000040	0.001807
48	108	25000	0.000040	0.001807
3	109	15000	0.000067	0.001805
47	109	15000	0.000067	0.001805

8	110	10000	0.000100	0.001802
18	111	5000	0.000200	0.001794
37	112	4500	0.000222	0.001792
21	113	900	0.001111	0.001717
20	114	500	0.002000	0.001644
35	115	400	0.002500	0.001604
9	116	100	0.010000	0.001060
39	117	30	0.033333	0.000085
4	118	25	0.040000	0.000007
19	119	10	0.100000	0.003300
45	120	10	0.100000	0.003300
22	121	7	0.142857	0.010061
23	122	3	0.333333	0.084555
SUM			0.765910	0.121752

$$\widehat{\text{var}}(\bar{x}) = \frac{\sum(x_i - \bar{x})^2}{n_h(n_h - 1)} = \frac{0.121752}{18(18 - 1)} = 0.00398$$

$$\widehat{\text{var}}(\hat{N}_{hd}) = ((1.0 \times 10^7) \times (0.000398)) + ((0.042551^2) \times (4.0 \times 10^{10})) = 39,860,672,603$$

$$\widehat{\text{se}}(\hat{N}_{hd}) = \sqrt{\widehat{\text{var}}(\hat{N}_{hd})} = 199,651$$

The answer to the hypothetical problem: There were an estimated 425,506 family forest ownerships in State X. The variance associated with this estimate was 39,860,672,603 or a standard error of 199,651.

Example 2. Estimation of number of family forest ownerships in State X who had a written forest management plan.

The question: How many family forest-land ownerships in State X had written forest management plans?

- The estimated area of family forest land in State X = $\hat{A}_h = 10,000,000$ acres
- Variance associated with this estimate = $\text{var}(\hat{A}_f) = 4.0 \times 10^{10}$
- a_i = area of forest land owned by landowner i
- $d_i = 1$ if forest land owner i had a written forest management plan and 0 otherwise

Step 1. Select all sample points that were forested and family-owned

See Step 1 from Example 1. There were 18 randomly selected sample points on family forest land with the following attributes:

Point	Land Use	Ownership Class	Ownership ID	a_i	d_i
3	Forest	Family	109	15000	1
4	Forest	Family	118	25	0
8	Forest	Family	110	10000	1
9	Forest	Family	116	100	0
16	Forest	Family	108	25000	1
18	Forest	Family	111	5000	1

Point	Land Use	Ownership		a_i	d_i
		Class	ID		
19	Forest	Family	119	10	0
20	Forest	Family	114	500	0
21	Forest	Family	113	900	1
22	Forest	Family	121	7	0
23	Forest	Family	122	3	0
35	Forest	Family	115	400	0
37	Forest	Family	112	4500	0
39	Forest	Family	117	30	1
43	Forest	Family	108	25000	1
45	Forest	Family	120	10	0
47	Forest	Family	109	15000	1
48	Forest	Family	108	25000	1

Step 2. Calculate number of ownerships

$$\hat{N}_{hd} = \hat{A}_{FIA} \frac{1}{n_h} \sum_1^{n_h} \frac{d_i}{a_i}$$

Point	Ownership			$\frac{d_i}{a_i}$
	ID	a_i	d_i	
16	108	25000	1	0.0000400
43	108	25000	1	0.0000400
48	108	25000	1	0.0000400
3	109	15000	1	0.0000667
47	109	15000	1	0.0000667
8	110	10000	1	0.0001000
18	111	5000	1	0.0002000
37	112	4500	0	0.0000000
21	113	900	1	0.0011111
20	114	500	0	0.0000000
35	115	400	0	0.0000000
9	116	100	0	0.0000000
39	117	30	1	0.0333333
4	118	25	0	0.0000000
19	119	10	0	0.0000000
45	120	10	0	0.0000000
22	121	7	0	0.0000000
23	122	3	0	0.0000000
	SUM			0.0349980

$$n_h = 18$$

$$\bar{x} = \frac{0.0349980}{18} = 0.00194433$$

$$\hat{N}_{hd} = 1.0 \times 10^7 \times 0.00194433 = 19,443$$

Step 3. Calculate variance of the estimated number of family forest ownerships

$$\widehat{var}(\hat{N}_{hd}) = \hat{A}_{FIA}^2 \times \widehat{var}(\bar{x}) + \bar{x}^2 \times \widehat{var}(\hat{A}_{FIA})$$

Point	Ownership				
	ID	a_i	d_i	x_i	$(x_i - \bar{x})^2$
16	108	25000	1	0.0000400	0.0000036
43	108	25000	1	0.0000400	0.0000036
48	108	25000	1	0.0000400	0.0000036
3	109	15000	1	0.0000667	0.0000035
47	109	15000	1	0.0000667	0.0000035
8	110	10000	1	0.0001000	0.0000034
18	111	5000	1	0.0002000	0.0000030
37	112	4500	0	0.0000000	0.0000038
21	113	900	1	0.0011111	0.0000007
20	114	500	0	0.0000000	0.0000038
35	115	400	0	0.0000000	0.0000038
9	116	100	0	0.0000000	0.0000038
39	117	30	1	0.0333333	0.0009853
4	118	25	0	0.0000000	0.0000038
19	119	10	0	0.0000000	0.0000038
45	120	10	0	0.0000000	0.0000038
22	121	7	0	0.0000000	0.0000038
23	122	3	0	0.0000000	0.0000038
			SUM	0.0349978	0.0010444

$$\widehat{var}(\bar{x}) = \frac{\sum(x_i - \bar{x})^2}{n_h(n_h - 1)} = \frac{0.0010444}{18(18 - 1)} = 0.001944$$

$$\widehat{var}(\hat{N}_{hd}) = ((1.0 \times 10^7) \times (0.001944)) + ((0.0010444^2) \times (4.0 \times 10^{10})) = 341,446,135$$

$$\widehat{se}(\hat{N}_{hd}) = \sqrt{\widehat{var}(\hat{N}_{hd})} = 18,478$$

The answer to the hypothetical problem: There were an estimated 19,443 family forest owners in State X with a written forest management plan. The variance associated with this estimate was 341,446,135 or a standard error of 18,478.

Example 3. Estimation of area of family forest land in State X owned by people who had written forest management plans.

The question: How many acres of family forest are there in State X owned by people with written forest management plans?

All variables are defined as they are in example 2, unless noted otherwise.

Step 1. Select all sample points that were forested and family-owned

See step 1 in example 2. The same data are used here.

Step 2. Calculate area of family forest land

$$\hat{A}_{hd} = \frac{\hat{A}_{FIA}}{n_h} \times \sum_{i=1}^{n_h} d_i = \hat{A}_{FIA} \times \bar{x}_{hd}^a$$

Point	Ownership ID	d_i	x_i
16	108	1	1.0
43	108	1	1.0
48	108	1	1.0
3	109	1	1.0
47	109	1	1.0
8	110	1	1.0
18	111	1	1.0
37	112	0	0.0
21	113	1	1.0
20	114	0	0.0
35	115	0	0.0
9	116	0	0.0
39	117	1	1.0
4	118	0	0.0
19	119	0	0.0
45	120	0	0.0
22	121	0	0.0
23	122	0	0.0
SUM			9.0

$$\bar{x}_{hd}^a = \frac{9}{18} = 0.5$$

$$\hat{A}_{hd} = (1.0 \times 10^7) \times (0.5) = 5,000,000$$

Step 3. Calculate variance

$$\widehat{var}(\hat{A}_{hd}) = \hat{A}_{FIA}^2 \times \widehat{var}(\bar{x}_{hd}^a) + \bar{x}_{hd}^a{}^2 \times \widehat{var}(\hat{A}_{FIA})$$

Point	Ownership ID	d_i	x_i	$(x_i - \bar{x})^2$
16	108	1	1.0	0.25
43	108	1	1.0	0.25
48	108	1	1.0	0.25
3	109	1	1.0	0.25

47	109	1	1.0	0.25
8	110	1	1.0	0.25
18	111	1	1.0	0.25
37	112	0	0.0	0.25
21	113	1	1.0	0.25
20	114	0	0.0	0.25
35	115	0	0.0	0.25
9	116	0	0.0	0.25
39	117	1	1.0	0.25
4	118	0	0.0	0.25
19	119	0	0.0	0.25
45	120	0	0.0	0.25
22	121	0	0.0	0.25
23	122	0	0.0	0.25
SUM			9.0	4.50

$$\widehat{var}(\bar{x}_{hd}^a) = \frac{\sum(x_i - \bar{x})^2}{n_h(n_h - 1)} = \frac{4.5}{18(18 - 1)} = 0.0147$$

$$\widehat{var}(\hat{A}_{hd}) = ((1.0 \times 10^7) \times (0.0147)) + ((0.5^2) \times (4.0 \times 10^{10})) = 1.48 \times 10^{12}$$

$$se(\hat{A}_{hd}) = \sqrt{\widehat{var}(\hat{A}_{hd})} = 1,216,794$$

The answer to the hypothetical problem: An estimated 5.0 million acres of family forest land in State X are owned by people with written forest management plans. The variance associated with this estimate was 1.48×10^{12} or a standard error of 1,216,794.