Adaptation to climate change in Canadian private forestry

Climate change has increasingly made headlines over the last decades.

This survey aims at understanding what actions to adapt to climate change private forest owners have taken, or plan to take. It focuses on private forests. Your responses to this questionnaire will help design adequate tools to support forest owners to adapt their woodlots to climate change.

We are particularly interested in knowing:

- to what degree you have already adopted adaptation measures;
- if you plan to change the way you manage your forest in order to adapt to climate change; and
- what obstacles may hinder your ability to take adaptation measures.

This survey is anonymous and is part of a larger research project on adaptation measures to climate change in private forestry. It is jointly headed by the Université du Québec en Outaouais (UQO) and by the Belgian Université catholique de Louvain (UCLouvain). Its certificate of ethics approval complies with the rules and policies of the UQO.

At the end of the questionnaire, you will have the opportunity to enter a lottery to win a gift voucher of \$500 (first prize), \$300 (second prize) or \$200 (third prize). In this case, we will ask your email address but for the sole use of the prize draw—your answers to the questionnaire will remain anonymous.

Please feel free to share the questionnaire with other forest owners who may be interested in participating. The survey ends on Thursday, March 31st, 2022.

If you have any questions, comments or suggestions: please contact the survey coordinator Timothée Fouqueray ($\underline{\underline{\text{timothee.fouqueray}}}\underline{\underline{\text{quo.ca}}}$)

It takes around 15-25 minutes to complete the questionnaire. You can save your progress at any time and finish it later.

By completing this questionnaire, you are giving your consent to partake in this study. The information you provide will be kept confidential and anonymous and will be used only for research purposes.

There are 62 questions in this survey.

General information on your forest(s)

The following questions concern the forest(s) you own. This is section 1 out of 6.
Do you own a woodlot in Canada ? *
Please choose only one of the following:
Yes
○ No

We warmly thank you for your interest in our research. Yet, we only collect data from owners of private woodlots in Canada. Your answers will therefore not be collecteed, and you will be denied access to the lottery. If you still want to join the research team, please write to timothee.fouqueray@uqo.ca.

You can now exit this window.

Only answer this question if the following conditions are met: Answer was 'No' at question '2 [landlord]' (Do you own a woodlot in Canada ?)

It looks like you really want to participate:)

Yet, as you do not own any woodlot in Canada, we cannot collect your answers, nor make you enter in the lottery.

We recommend you to close this window, and tell about the questionnaire to your relatives owning a forest!

Only answer this question if the following conditions are met:

Answer was 'No' at question '2 [landlord]' (Do you own a woodlot in Canada ?)

How many woodlots do you own in Canada?* ① Choose one of the following answers Please choose only one of the following: 1 2 3-5 6-10 More than 10
What is the surface of your woodlot? * Only answer this question if the following conditions are met: Answer was '1' at question '5 [woodlotsNumber]' (How many woodlots do you own in Canada ?) • Please fill in at least one answer • Only numbers may be entered in these fields.
Is your woodlot a joint possession (co-ownership, for instance with relatives)? * Only answer this question if the following conditions are met: ((woodlotsNumber.NAOK (/admin/questions/sa/view/surveyid/845375/gid/1/qid/40) == "A1")) Please choose only one of the following: Yes No
What is the combined surface of all your woodlots? * Only answer this question if the following conditions are met: Answer was 'More than 10' or '2' at question '5 [woodlotsNumber]' (How many woodlots do you own in Canada ?) and Answer was greater than or equal to 'More than 10' or '2' at question '5 [woodlotsNumber]' (How many woodlots do you own in Canada ?) Only numbers may be entered in these fields.
Are your woodlots a joint possession (co-ownership, for instance with relatives)? * Only answer this question if the following conditions are met: ((woodlotsNumber.NAOK (/admin/questions/sa/view/surveyid/845375/gid/1/qid/40) == "A11" or woodlotsNumber.NAOK (/admin/questions/sa/view/surveyid/845375/gid/1/qid/40) >= "A2")) Only answer this question if the following conditions are met: ((woodlotsNumber.NAOK (/admin/questions/sa/view/surveyid/845375/gid/1/qid/40) >= "A2")) Only answer this question if the following conditions are met: ((woodlotsNumber.NAOK (/admin/questions/sa/view/surveyid/845375/gid/1/qid/40) >= "A2")) Only answer this question if the following conditions are met: ((woodlotsNumber.NAOK (/admin/questions/sa/view/surveyid/845375/gid/1/qid/40) >= "A2")) Only answer this question if the following conditions are met: ((woodlotsNumber.NAOK (/admin/questions/sa/view/surveyid/845375/gid/1/qid/40) >= "A2")) Only answer this question if the following conditions are met: ((woodlotsNumber.NAOK (/admin/questions/sa/view/surveyid/845375/gid/1/qid/40) >= "A2"))
Please indicate the province(s) and/or territory(ies) where your woodlots are located. * ① Check all that apply Please choose all that apply: Alberta British Columbia Prince Edward Island Manitoba New Brunswick Nova Scotia Nunavut Ontario Québec Saskatchewan Newfoundland and Labrador Northwest Territories Yukon

Only numbers may be entered in these fields. De Each answer must be at most 100 The sum must be at most 100 lease write your answer(s) here:							
der forest stands that can be harvested and regenerated in	n the next 20 years						
ature forest stands, in active growth phase, harvestable in bung forest stands, planted or from natural regeneration for ecent forest cuts, not yet replanted or naturally regenerated ulti-age forest stands	less than 20 years						
ample: If you only have decaying woodlots, report 100 for the first		indicate how i	mportant are	these reasor	ns in your dec	ision of ownin	g woodlots
lease choose the appropriate response for each item:	Not at all important	Not important	Rather not important	Neutral	Rather important	Important	Extremely important
Selling wood	0	0	0	0	0	0	0
larvesting firewood	0	0	0	0	0	0	0
eaving an inheritance for my children	0	0	0	0	0	0	0
rotecting forest ecosystems	0	0	0	0	0	0	0
aving nice landscapes	0	0	0	0	0	0	0
arbon sequestration	\circ	0	\circ	\circ	0	0	0
or investing in or having a pension fund	0	0	0	0	0	0	0
		0	\circ	\circ	0	0	\circ
he woodlot is adjacent to my home	\circ						
he woodlot is adjacent to my home	0	0	0	0	0	0	0
lunting, trapping or fishing		0	0	0	0	0	0
lunting, trapping or fishing for recreational purposes other than hunting, rapping or fishing (e.g., quad bikes, skidoo, etc.) larvesting non-timber products (e.g., mushrooms,		0	<u> </u>	0		0	
unting, trapping or fishing or recreational purposes other than hunting, apping or fishing (e.g., quad bikes, skidoo, etc.) arvesting non-timber products (e.g., mushrooms, oney, berries, etc.)	0	0	0	0	0	0	0
dunting, trapping or fishing for recreational purposes other than hunting, rapping or fishing (e.g., quad bikes, skidoo, etc.) larvesting non-timber products (e.g., mushrooms, oney, berries, etc.)	0	0	0	0	0	0	0
lunting, trapping or fishing	0 0	0	0	0	0	0	0

ease choose all that apply:							
_							
My woodlots are not managed I decide everything by myself							
I make decisions together with people close to me (rela	atives, friends, other	co-owners)					
I seek advice from a forestry professional (e.g., forest of delegate every decisions to others	engineer, logging co	ntractor services, etc.)					
Traclegate every decisions to others							
Other:							
hy do you delegate every decisions to ly answer this question if the following conditions are me swer was at question '14 [forestManager]' (Who makes to	et:	the management of yo	ur woodlots (logging	g, planting, regener	ation, hunting, specie	es choice, etc.)?)	
ase choose the appropriate response for each item:	Not at all important	Not important	Rather not important	Neutral	Rather important	Important	Extremely important
lo not want to manage by myself							
lo not have time	0		0	0	0	0	0
lo not have the financial means	0	0	0	\circ	0	0	0
o not know enough about how to manage a podlot	0	0	0	\circ	0	0	0
woodlots are difficult to access	0	0	0	0	0	0	0
· ·	ake part to the	e decision-man	agement over	r the next ter	years?*	0	0
ow thinking ahead, do you intend to tachoose one of the following answers ase choose only one of the following: Yes No I do not know hy do you prefer not to take part to the yanswer this question if the following conditions are measurer was 'No' at question '16 [delegateMgmtLater]' (Now	ake part to the	anagement ove	agement over	ı years? *	years?*		0
ow thinking ahead, do you intend to tachoose one of the following answers ase choose only one of the following: Yes No I do not know hy do you prefer not to take part to the yanswer this question if the following conditions are measurer was 'No' at question '16 [delegateMgmtLater]' (Now	ake part to the	anagement ove	agement over	ı years? *	years?*		0
w thinking ahead, do you intend to ta hoose one of the following answers use choose only one of the following: Yes No I do not know The following conditions are me wer was 'No' at question if the following conditions are me wer was 'No' at question '16 [delegateMgmtLater]' (Now	ake part to the	anagement ove	agement over	ı years? *	years?*	Important	Extremely
w thinking ahead, do you intend to take hoose one of the following answers use choose only one of the following: Yes No I do not know The following conditions are me wer was 'No' at question '16 [delegateMgmtLater]' (Now use choose the appropriate response for each item:	e decision-ma	anagement ove you intend to take par	agement over	1 years? *	next ten years?)		Extremely
ow thinking ahead, do you intend to tachoose one of the following answers ase choose only one of the following: Yes No I do not know The following conditions are me wer was 'No' at question '16 [delegateMgmtLater]' (Now ase choose the appropriate response for each item:	e decision-mate: v thinking ahead, do	anagement ove you intend to take par	er the next ter	n years? * unagement over the	next ten years?) Rather important	Important	Extremely
ow thinking ahead, do you intend to tachoose one of the following answers ase choose only one of the following: Yes No I do not know Thy do you prefer not to take part to the years are the years was 'No' at question '16 [delegateMgmtLater]' (Now ase choose the appropriate response for each item:	e decision-mate: v thinking ahead, do	anagement ove you intend to take par	er the next ter	n years? * unagement over the	next ten years?) Rather important	Important	Extremely
bow thinking ahead, do you intend to tachoose one of the following answers ase choose only one of the following: Yes No I do not know hy do you prefer not to take part to the yanswer this question if the following conditions are measwer was 'No' at question '16 [delegateMgmtLater]' (Now ase choose the appropriate response for each item: do not want to manage by myself do not have time do not have the financial means do not know enough about how to manage a	e decision-mate: v thinking ahead, do	anagement over you intend to take par	er the next ter	Neutral	next ten years?) Rather important	Important	Extremely important
cow thinking ahead, do you intend to taccommon the common that the equipment or workers available cow thinking ahead, do you intend to taccommon the following answers was choose only one of the following: O yes O NO O I do not know O You prefer not to take part to the following conditions are measurer was 'No' at question '16 [delegateMgmtLater]' (Now was choose the appropriate response for each item: I do not want to manage by myself I do not have time I do not know enough about how to manage a condict the conditions are difficult to access	e decision-mate: v thinking ahead, do	anagement over you intend to take par	er the next ter	Neutral	next ten years?) Rather important	Important O	Extremely important

		important	Neutral	important	Important	Extremely important
\circ	0	0	0	0	0	0
\bigcirc	0	\circ	\circ	0	\circ	0
\circ	0	\circ	\circ	0	0	0
\circ	0	\circ	\circ	0	\circ	0
\circ	0	\circ	\circ	0	\circ	0
\circ	0	\circ	\circ	0	0	0
\circ	0	\circ	\circ	0	\circ	0
0			\circ	0	\circ	0
	0 0					

Answer was 'I decide everything by myself' at question '14 [forestManager]' (Who makes the decisions about the management of your woodlots (logging, planting, regeneration, hunting, species choice,

Changes in your forest management since 2010

The following questions concern the way your forest management has changed **since 2010**. If you acquired your woodlot after 2010 (for instance, in 2013), please provide answers only for the period since you acquired the woodlot (for instance, since 2013).

The questions concern the changes made to the management of your forests with regard to:

How important are these sources of information in how you manage your woodlots? *

Only answer this question if the following conditions are met:

----- Scenario 1 ---

- species regeneration;
- species composition;
- species choice, in case of planting;
- logging methods;
- use of fertilizers and phytosanitary products;
- environmental conservation measures.

This is section 2 out of 6.

Only answer this question if the following conditions are met:

Answer was at question '14 [forestManager]' (Who makes the decisions about the management of your woodlots (logging, planting, regeneration, hunting, species choice, etc.)?)

How has the regeneration of your forests Only answer this question if the following conditions are met: Answer was at question '14 [forestManager]' (Who makes the Ochoose one of the following answers Please choose only one of the following: I have increased the share of natural regeneration. I have increased the share of planting. I have not changed anything. If you own multiple woodlots, we consider that a change in m If you acquired your woodlot after 2010 (for instance, in 2013)	e decisions about the management of your w	at least one of your stands.	ng, species choice, etc.)?)
How has the species composition of you only answer this question if the following conditions are met: Answer was at question '14 [forestManager]' (Who makes the Check all that apply) Please choose all that apply: I have tried to increase the diversity of species in my fore I have modified part of my woodlot to favor a single special I have not changed anything. If you own multiple woodlots, we consider that a change in my fixed for instance, in 2013	e decisions about the management of your wasts. ies. anagement happened if it has taken place in	podlots (logging, planting, regeneration, hunting the state of the standard	ng, species choice, etc.)?)
Have you changed your species selection Only answer this question if the following conditions are met: Answer was at question '14 [forestManager]' (Who makes the Check all that apply) Please choose all that apply: This question does not concern me as I have not planted I have chosen my seedlings based on wood productivity. I have chosen my seedlings as to anticipate various risks I wish I could find or buy seedlings from new species, but I have not changed my criteria. Other: If you own multiple woodlots, we consider that a change in multiple woodlots after 2010 (for instance, in 2013)	e decisions about the management of your was any trees since 2010. Is (drought, insects, etc.). It cannot. anagement happened if it has taken place in	podlots (logging, planting, regeneration, hunting the state of the state of the standard of th	ng, species choice, etc.)?)
Have you chosen your seedlings to * Only answer this question if the following conditions are met: Answer was at question '23 [pastChangePlantSelec]' (Have you have choose the appropriate response for each item:	ou changed your species selection criteria fo	,	I do not remember
Introduce exotic species? Introduce local species coming from southern populations (assisted migration)?	Yes	No O	I do not remember

ease choose the appropriate response for each item:				
ease choose the appropriate response for each item.	It increased	It decreased	It depends on woodlots	It did not change
Removal rate of partial/regeneration/commercial hinning	0	0		0
requency of harvesting	0	0	0	0
hare of the woodlot destined for clearcut	0	0	0	0
ou acquired your woodlot after 2010 (for instance, in 2013), a			inistance, since 2013).	
akes the decisions about the management of your woodlets (I				
Check all that apply	ogging, pianting, regeneration, r	unining, species critice, etc.)?)		
Check all that apply ease choose all that apply: I started using fertilizers and/or liming. I stopped using fertilizers and/or liming. I started using pesticides. I stopped using pesticides. I have not changed anything.		<i>y</i> , , , , , , , , , , , , , , , , , , ,		
Check all that apply ease choose all that apply: I started using fertilizers and/or liming. I stopped using fertilizers and/or liming. I started using pesticides. I stopped using pesticides. I have not changed anything. you own multiple woodlots, we consider that a change in management of the properties of the prope	agement happened if it has take	n place in at least one of your st		
I stopped using fertilizers and/or liming. I started using pesticides. I stopped using pesticides.	agement happened if it has take answer only for the period since vation in your woodlo ecisions about the management	n place in at least one of your st you acquired the woodlot (in this ts since 2010? * of your woodlots (logging, plant	instance, since 2013).	
Check all that apply ease choose all that apply: I started using fertilizers and/or liming. I stopped using fertilizers and/or liming. I started using pesticides. I stopped using pesticides. I have not changed anything. You own multiple woodlots, we consider that a change in manayou acquired your woodlot after 2010 (for instance, in 2013), a ave you made changes related to conservally answer this question if the following conditions are met: Isswer was at question '14 [forestManager]' (Who makes the disswer was at question '14 [forestManager]' (Who makes the disswer was at question '14 [forestManager]' (Who makes the disswer was at question '14 [forestManager]' (Who makes the disswer was at question '14 [forestManager]' (Who makes the disswer was at question '15 [forestManager]' (Who makes the disswer was at question '16 [forestManager]' (Who makes the disswer was at question '17 [forestManager]' (Who makes the disswer was at question '18 [forestManager]' (Who makes the disswer was at question '19 [forestManager]' (Who makes the disswer was at question '19 [forestManager]' (Who makes the disswer was at question '19 [forestManager]' (Who makes the disswer was at question '19 [forestManager]' (Who makes the disswer was at question '19 [forestManager]' (Who makes the disswer was at question '19 [forestManager]' (Who makes the disswer was at question '19 [forestManager]' (Who makes the disswer was at question '19 [forestManager]' (Who makes the disswer was at question '19 [forestManager]' (Who makes the disswer was at question '19 [forestManager]' (Who makes the disswer was at question '19 [forestManager]' (Who makes the disswer was at question '19 [forestManager]' (Who makes the disswer was at question '19 [forestManager]' (Who makes the disswer was at question '19 [forestManager]' (Who makes the disswer was at question '19 [forestManager]' (Who makes the disswer was at question '19 [forestManager]' (Who makes the disswer was at question '19 [forestManager]' (Who makes the disswer was at question '19 [forestManag	agement happened if it has take answer only for the period since vation in your woodlo	n place in at least one of your st you acquired the woodlot (in this ts since 2010? *	instance, since 2013).	ce, etc.)?) It did not change
Check all that apply base choose all that apply: I started using fertilizers and/or liming. I stopped using fertilizers and/or liming. I started using pesticides. I stopped using pesticides. I have not changed anything. You own multiple woodlots, we consider that a change in manipulation of the provided and the control of the control	agement happened if it has take answer only for the period since vation in your woodlo ecisions about the management	n place in at least one of your st you acquired the woodlot (in this ts since 2010? * of your woodlots (logging, plant	instance, since 2013).	

If you acquired your woodlot after 2010 (for instance, in 2013), answer only for the period since you acquired the woodlot (in this instance, since 2013).

Please choose the appropriate response for each item:							
	Not at all important	Not important	Rather not important	Neutral	Rather important	Important	Extremely important
To achieve the goals of my forest management plan.	\circ	0	\circ	\circ	0	0	0
New machinery and/or technology (ex: logging equipment, drone inventories, etc.) have contributed to change my practices.	\circ	0	\circ	0	0	0	0
Easier access to my woodlots have contributed to change my practices.	0	0	0	0	0	0	0
The consequences of a natural disaster (drought, flooding, disease, etc.).	\circ	0	0	0	0	0	0
To prevent the impacts of a natural hazard (drought, flooding, disease, etc.).	\circ	0	0	0	0	0	0
To reduce management costs.	\circ	0	\bigcirc	\circ	0	0	0
To benefit from governmental incentives.	\bigcirc	0	\bigcirc	\circ	0	0	0
At the request of my relatives or neighbors.	\circ	0	\circ	0	0	0	0
On the advice of a forest engineer or a forest company.	0	0	0	0	0	0	0

How important were these aspects regarding your decision to change at least one of your management practices? *

'It did not change' at question '25 [pastChangeCut]' (How have you changed your logging methods since 2010 ? (Removal rate of partial/regeneration/commercial thinning))

'It did not change' at question '27 [pastChangeConservati]' (Have you made changes related to conservation in your woodlots since 2010? (Retention of old or dead trees))

'I have not changed anything.' at question '21 [pastChangeRegen]' (How has the regeneration of your forests changed since 2010?)

'I have not changed anything.' at question '22 [pastChangeSpecies]' (How has the species composition of your woodlots changed since 2010?)

'It did not change' at question '25 [pastChangeCut]' (How have you changed your logging methods since 2010 ? (Frequency of harvesting))

'I have not changed anything.' at question '26 [pastChangeChemicals]' (How has your use of fertilizers and pesticides changed since 2010?)

'I have not changed my criteria.' at question '23 [pastChangePlantSelec]' (Have you changed your species selection criteria for planting trees since 2010?)

'It did not change' at question '25 [pastChangeCut]' (How have you changed your logging methods since 2010 ? (Share of the woodlot destined for clearcut))

Answer was at question '14 [forestManager]' (Who makes the decisions about the management of your woodlots (logging, planting, regeneration, hunting, species choice, etc.)?) and Answer was NOT

Answer was at question '14 [forestManager]' (Who makes the decisions about the management of your woodlots (logging, planting, regeneration, hunting, species choice, etc.)?) and Answer was NOT

Answer was at question '14 [forestManager]' (Who makes the decisions about the management of your woodlots (logging, planting, regeneration, hunting, species choice, etc.)?) and Answer was NOT

Answer was at question '14 [forestManager]' (Who makes the decisions about the management of your woodlots (logging, planting, regeneration, hunting, species choice, etc.)?) and Answer was NOT

Answer was at question '14 [forestManager]' (Who makes the decisions about the management of your woodlots (logging, planting, regeneration, hunting, species choice, etc.)?) and Answer was NOT

Answer was at question '14 [forestManager]' (Who makes the decisions about the management of your woodlots (logging, planting, regeneration, hunting, species choice, etc.)?) and Answer was NOT

Answer was at question '14 [forestManager]' (Who makes the decisions about the management of your woodlots (logging, planting, regeneration, hunting, species choice, etc.)?) and Answer was NOT

Answer was at question '14 [forestManager]' (Who makes the decisions about the management of your woodlots (logging, planting, regeneration, hunting, species choice, etc.)?) and Answer was NOT

Only answer this question if the following conditions are met:

----- Scenario 2 ---

----- or Scenario 5 -

----- or Scenario 8 --

--- or Scenario 9 -

	avaica your i	nanagement	changes, you	can specify	mem nere.		
Only answer this question if the following conditions are met: Scenario 2							
Answer was at question '14 [forestManager]' (Who makes the I have not changed anything.' at question '21 [pastChangeRo or Scenario 3					ration, hunting, specie	s choice, etc.)?) a	nd Answer was NOT
Answer was at question '14 [forestManager]' (Who makes the lawe not changed anything.' at question '22 [pastChangeS]						s choice, etc.)?) a	nd Answer was NOT
Answer was at question '14 [forestManager]' (Who makes the I have not changed my criteria.' at question '23 [pastChange						s choice, etc.)?) a	nd Answer was NOT
or Scenario 5 Answer was at question '14 [forestManager]' (Who makes the It did not change' at question '25 [pastChangeCut]' (How hav							nd Answer was NOT
or Scenario 6 Answer was at question '14 [forestManager]' (Who makes tho It did not change' at question '25 [pastChangeCut]' (How hav					ration, hunting, specie	s choice, etc.)?) a	nd Answer was NOT
or Scenario 7 Answer was at question '14 [forestManager]' (Who makes the It did not change' at question '25 [pastChangeCut]' (How hav						s choice, etc.)?) a	nd Answer was NOT
or Scenario 8 Answer was at question '14 [forestManager]' (Who makes the I have not changed anything.' at question '26 [pastChangeCl						s choice, etc.)?) a	nd Answer was NOT
 Answer was at question '14 [forestManager]' (Who makes the It did not change' at question '27 [pastChangeConservati]' (H							nd Answer was NOT
or Scenario 10 Answer was at question '14 [forestManager]' (Who makes the It did not change' at question '27 [pastChangeConservati]' (H	e decisions about th	e management of y	our woodlots (logging	g, planting, regener	ation, hunting, specie	s choice, etc.)?) a	
area (private nature reserve, conservation easement, gift, pu	-	-	•	uiota airice 2010: (Classification of some	or air or my wood	iot as a protecteu
Please write your answer here:							
	-	agree with th	_	atements? *	Somowhat		Absolutely
Let's now take a look at the future. How the second	Much do you Absolutely disagree	agree with th	ne following sta Somewhat disagree	atements? *	Somewhat agree	Agree	Absolutely agree
	Absolutely	_	Somewhat			Agree	-
Please choose the appropriate response for each item: Public perception of timber harvesting will not	Absolutely	_	Somewhat			Agree	-
Please choose the appropriate response for each item: Public perception of timber harvesting will not change my forest management. Game populations in excess threaten the	Absolutely	_	Somewhat disagree	Neutral		0	agree
Please choose the appropriate response for each item: Public perception of timber harvesting will not change my forest management. Game populations in excess threaten the regeneration of my trees. I am concerned about future damage to trees from	Absolutely	_	Somewhat disagree	Neutral		0	agree
Please choose the appropriate response for each item: Public perception of timber harvesting will not change my forest management. Game populations in excess threaten the regeneration of my trees. I am concerned about future damage to trees from insects and/or diseases. I am concerned about the impacts of climate change	Absolutely disagree	Disagree	Somewhat disagree	Neutral O	agree	0	agree
Please choose the appropriate response for each item: Public perception of timber harvesting will not change my forest management. Game populations in excess threaten the regeneration of my trees. I am concerned about future damage to trees from insects and/or diseases. I am concerned about the impacts of climate change on my woodlots. Climate change provides an opportunity to achieve my forest management goals. I would like to log more trees in my forests.	Absolutely disagree	Disagree	Somewhat disagree	Neutral O O O	agree	0	agree
Please choose the appropriate response for each item: Public perception of timber harvesting will not change my forest management. Game populations in excess threaten the regeneration of my trees. I am concerned about future damage to trees from insects and/or diseases. I am concerned about the impacts of climate change on my woodlots. Climate change provides an opportunity to achieve my forest management goals. I would like to log more trees in my forests.	Absolutely disagree	Disagree	Somewhat disagree	Neutral O O O O O	agree	0 0 0	agree O
Please choose the appropriate response for each item: Public perception of timber harvesting will not change my forest management. Game populations in excess threaten the regeneration of my trees. I am concerned about future damage to trees from insects and/or diseases. I am concerned about the impacts of climate change on my woodlots. Climate change provides an opportunity to achieve my forest management goals. I would like to log more trees in my forests.	Absolutely disagree	Disagree	Somewhat disagree	Neutral O O O O O O O O O O O O O O O O O O	agree		agree
Please choose the appropriate response for each item: Public perception of timber harvesting will not change my forest management. Game populations in excess threaten the regeneration of my trees. I am concerned about future damage to trees from insects and/or diseases. I am concerned about the impacts of climate change on my woodlots. Climate change provides an opportunity to achieve my forest management goals. I would like to log more trees in my forests. I would like to sell forest carbon credits. I would like to see a part of my forest become a	Absolutely disagree	Disagree	Somewhat disagree	Neutral O O O O O O O O O O O O O O O O O O	agree		agree
Please choose the appropriate response for each item: Public perception of timber harvesting will not change my forest management. Game populations in excess threaten the regeneration of my trees. I am concerned about future damage to trees from insects and/or diseases. I am concerned about the impacts of climate change on my woodlots. Climate change provides an opportunity to achieve my forest management goals. I would like to log more trees in my forests. I would like to sell forest carbon credits. I would like to see a part of my forest become a	Absolutely disagree	Disagree	Somewhat disagree	Neutral O O O O O O O O O O O O O O O O O O	agree		agree
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Public perception of timber harvesting will not change my forest management. Game populations in excess threaten the regeneration of my trees. I am concerned about future damage to trees from insects and/or diseases. I am concerned about the impacts of climate change on my woodlots. Climate change provides an opportunity to achieve my forest management goals. I would like to log more trees in my forests. I would like to sell forest carbon credits. I would like to see a part of my forest become a protected area. Could you please specify why climate change in the following conditions are met:	Absolutely disagree	Disagree O O O O O O O O O O O O O O O O O O	Somewhat disagree	Neutral O O O O O O O O O O O O O O O O O O	agree		agree
Public perception of timber harvesting will not change my forest management. Game populations in excess threaten the regeneration of my trees. I am concerned about future damage to trees from insects and/or diseases. I am concerned about the impacts of climate change on my woodlots. Climate change provides an opportunity to achieve my forest management goals. I would like to log more trees in my forests. I would like to sell forest carbon credits. I would like to see a part of my forest become a protected area. Could you please specify why climate change change met: Answer was 'Agree' or 'Somewhat agree' or 'Absolutely agree'	Absolutely disagree	Disagree O O O O O O O O O O O O O O O O O O	Somewhat disagree	Neutral O O O O O O O O O O O O O O O O O O	agree		agree
Public perception of timber harvesting will not change my forest management. Game populations in excess threaten the regeneration of my trees. I am concerned about future damage to trees from insects and/or diseases. I am concerned about the impacts of climate change on my woodlots. Climate change provides an opportunity to achieve my forest management goals. I would like to log more trees in my forests. I would like to sell forest carbon credits. I would like to see a part of my forest become a protected area. Could you please specify why climate change in the following conditions are met:	Absolutely disagree	Disagree O O O O O O O O O O O O O O O O O O	Somewhat disagree	Neutral O O O O O O O O O O O O O O O O O O	agree		agree
Public perception of timber harvesting will not change my forest management. Game populations in excess threaten the regeneration of my trees. I am concerned about future damage to trees from insects and/or diseases. I am concerned about the impacts of climate change on my woodlots. Climate change provides an opportunity to achieve my forest management goals. I would like to log more trees in my forests. I would like to sell forest carbon credits. I would like to see a part of my forest become a protected area. Could you please specify why climate change only answer this question if the following conditions are met: Answer was 'Agree' or 'Somewhat agree' or 'Absolutely agree provides an opportunity to achieve my forest management go	Absolutely disagree	Disagree O O O O O O O O O O O O O O O O O O	Somewhat disagree	Neutral O O O O O O O O O O O O O O O O O O	agree		agree
Public perception of timber harvesting will not change my forest management. Game populations in excess threaten the regeneration of my trees. I am concerned about future damage to trees from insects and/or diseases. I am concerned about the impacts of climate change on my woodlots. Climate change provides an opportunity to achieve my forest management goals. I would like to log more trees in my forests. I would like to sell forest carbon credits. I would like to see a part of my forest become a protected area. Could you please specify why climate change only answer this question if the following conditions are met: Answer was 'Agree' or 'Somewhat agree' or 'Absolutely agree provides an opportunity to achieve my forest management go	Absolutely disagree	Disagree O O O O O O O O O O O O O O O O O O	Somewhat disagree	Neutral O O O O O O O O O O O O O O O O O O	agree		agree
Public perception of timber harvesting will not change my forest management. Game populations in excess threaten the regeneration of my trees. I am concerned about future damage to trees from insects and/or diseases. I am concerned about the impacts of climate change on my woodlots. Climate change provides an opportunity to achieve my forest management goals. I would like to log more trees in my forests. I would like to sell forest carbon credits. I would like to see a part of my forest become a protected area. Could you please specify why climate change only answer this question if the following conditions are met: Answer was 'Agree' or 'Somewhat agree' or 'Absolutely agree provides an opportunity to achieve my forest management go	Absolutely disagree	Disagree O O O O O O O O O O O O O O O O O O	Somewhat disagree	Neutral O O O O O O O O O O O O O O O O O O	agree		agree

If you would like to, please detail the ar Only answer this question if the following conditions are m Answer was at question '14 [forestManager]' (Who makes	et:		-	_	•
Please write your answer here:					
tential changes to your forest r	management				
We would now like to know more about	t whether and how yo	ou intend to change	e the way you man	age your forests in	n the near future.
We would now like to know more about Please answer as precisely as possible	t whether and how yo	ou intend to change	e the way you man	age your forests in	n the near future.
We would now like to know more about Please answer as precisely as possible This is section 3 out of 6 (next sections	t whether and how yo e. s are shorter).		e the way you man	age your forests in	n the near future.
otential changes to your forest recent in the would now like to know more about Please answer as precisely as possible. This is section 3 out of 6 (next sections Do you intend to do any of the following Please choose the appropriate response for each item:	t whether and how yo e. s are shorter).		e the way you man	age your forests in	n the near future.

	I do not know this action	Yes, within the next 5 years	Yes, in 6 to 10 years	Unlikely	No
Decrease stand density	0	\circ	0	0	0
Log more frequently	0	\circ	0	0	0
Increase the number of species (diversification)	0	\circ	0	\circ	\circ
Replace species (ex: introduction of new species, assisted migration, etc.)	0	0	0	0	0
Let nature do its work	0	\circ	0	\circ	\circ
Increase the use of pesticides or chemical fertilizers	0	\circ	0	\circ	0
Practice prescribed burning, reduce fuel load	0	\circ	\circ	\circ	0
Prepare the soil (ex: drainage)	0	0	0	0	0
Buy an insurance against wildfire, frost, hail, windstorms, etc.	0	0	0	0	0
Diversify my forest revenue: development of recreation/tourism activities, enrollment in payment for carbon credits programs, etc.	0	0	0	0	0

Why do you prefer not to implement any measures? * Only answer this question if the following conditions are met: ((mgmtChangeACC_A.NAOK (/admin/questions/sa/view/surveyid/845375/gid/4/qid/10) == "A3" or mgmtChangeACC_B.NAOK (/admin/questions/sa/view/surveyid/845375/gid/4/qid/10) == "A4")) or ((mgmtChangeACC_B.NAOK (/admin/questions/sa/view/surveyid/845375/gid/4/qid/10) == "A3" or mgmtChangeACC_B.NAOK (/admin/questions/sa/view/surveyid/845375/gid/4/qid/10) == "A4")) or ((mgmtChangeACC_B.NAOK (/admin/questions/sa/view/surveyid/845375/gid/4/qid/10) == "A3" or mgmtChangeACC_B.NAOK (/admin/questions/sa/view/surveyid/845375/gid/4/qid/10) == "A4")) or ((mgmtChangeACC_B.NAOK (/admin/questions/sa/view/surveyid/845375/gid/4/qid/10) == "A4")) or ((mgmtChangeACC_B.NAOK (/admin/questions/sa/view/surveyid/845375/gid/4/qid/10) == "A3" or mgmtChangeACC_B.NAOK (/admin/questions/sa/view/surveyid/845375/gid/4/qid/10) == "A4")) or ((mgmtChangeACC_B.NAOK (/admin/questions/sa/view/surveyid/845375/gid/4/qid/10) == "A3" or mgmtChangeACC_B.NAOK (/admin/questions/sa/view/surveyid/845375/gid/4/qid/10) == "A3" or mgmtChangeACC_B.NAOK (/admin/questions/sa/view/surveyid/845375/gid/4/qid/10) == "A3" or mgmtChangeACC_B.NAOK (/admin/questions/sa/view/surveyid/84

	Not at all important	Not important	Rather not important	Neutral	Rather important	Important	Extremely important
I do not want to	0	0	0	0	0	0	0
I do not have time	0	0	\circ	\circ	0	\circ	0
I do not have the financial means	0	0	\circ	\circ	0	0	0
I do not know enough about how to manage a woodlot	0	0	0	0	0	0	0
My woodlots are difficult to access	0	\circ	\bigcirc	\circ	0	\circ	0
I do not have the equipment or workers available	0	\circ	\circ	\circ	0	0	0
I am uncertain whether these measures will work	0	0	\circ	0	0	0	0
I do not have support nor guidance	0	\circ	\bigcirc	\circ	0	0	0
I don't feel capable to implement these measures	0	0	0	0	0	0	0

Do you intend to make changes to the management of your woodlots because: *

Only answer this question if the following conditions are met:

((mgmtChangeACC_A.NAOK (/admin/questions/sa/view/surveyid/845375/gid/4/qid/10) == "A1" or mgmtChangeACC_A.NAOK (/admin/questions/sa/view/surveyid/845375/gid/4/qid/10) == "A1" or mgmtChangeACC_B.NAOK (/admin/questions/sa/view/surveyid/845375/gid/4/qid/10) == "A1" or mgmtChangeACC_B.NAOK (/admin/questions/sa/view/surveyid/845375/gid/4/qid/10) == "A1" or mgmtChangeACC_B.NAOK (/admin/questions/sa/view/surveyid/845375/gid/4/qid/10) == "A1" or mgmtChangeACC_D.NAOK (/admin/questions/sa/view/surveyid/845375/gid/4/qid/10) == "A1" or mgmtChangeACC_D.NAOK (/admin/questions/sa/view/surveyid/845375/gid/4/qid/10) == "A1" or mgmtChangeACC_E.NAOK (/admin/questions/sa/view/surveyid/845375/gid/4/qid/10) == "A1" or mgmtChangeACC_I.NAOK (/admin/questions/sa/view/surveyid/845375/gid/4/qid/10) == "A1" or mgmtChangeACC_I.NAOK (/admin/questions/sa/view/surveyid/845375/gid/4/qid/10) == "A1" or mgmtChangeACC_I.NAOK (/admin/questions/sa/view/surveyid/845375/gid/4/qid/10) == "A2") or ((mgmtChangeACC_I.NAOK (/admin/questions/sa/view/surveyid/845375/gid/4/qid/10) == "A1" or mgmtChangeACC_I.NAOK (/admin/questions/sa/view/surveyid/845375/gid/4/qid/10) == "A1" or mgmtChangeACC_I.N

Please choose the appropriate response for each item:

	Not at all important	Not important	Rather not important	Neutral	Rather important	Important	Extremely important
You feel concerned about the impacts of climate change on your woodlots?	\circ	0	0	0	\circ	0	0
Climate change provides an opportunity to achieve your forest management goals?	0	0	0	0	0	0	0

There are only three sections left.

	disagree	Disagree	disagree	Neutral	agree	Agree	Absolutely agree
The climate is currently changing all over the world.	0	0	0	\circ	0	\circ	0
luman activities (for instance, deforestation) do not ontribute to climate change.	0	0	0	\circ	0	\circ	0
we were to stop burning fossil fuels (oil, gas), limate change would stop almost immediately.	0	0	0	0	0	0	0
limate change will cause more droughts in some laces and greater precipitation in others.	0	0	0	0	0	\circ	0
Vhich of the following events have you check all that apply lease choose all that apply: Prolonged droughts/Heatwaves Extreme cold temperatures Freezing rain Extreme precipitations Wind storms Wildfires Insects, pests and pathogen outbreaks None of the above	ancady withes	Security your v	woodiots:				
Do you think that climate change is to be only answer this question if the following conditions are meanswer was 'Insects, pests and pathogen outbreaks' or 'Wi Which of the following events have you already witnessed of Choose one of the following answers lease choose only one of the following: Strongly disagree Disagree Somewhat disagree Neither agree or disagree Somewhat agree Agree Strongly agree	t: Idfires' <i>or</i> 'Wind storm in your woodlots?)	is' or 'Extreme preci	ipitations ' <i>or</i> 'Freezin	g rain' <i>or</i> 'Extreme	cold temperatures' at	question '42 [clim	ateExperience]*
nly answer this question if the following conditions are measurer was 'Insects, pests and pathogen outbreaks' or 'Withich of the following events have you already witnessed Choose one of the following answers ease choose only one of the following: Strongly disagree Disagree Somewhat disagree Neither agree or disagree Agree	t: Idfires' or 'Wind storm in your woodlots?) will happen o	ns' or 'Extreme prec	ipitations ' <i>or</i> 'Freezin				Yes, I'm real
ly answer this question if the following conditions are me swer was 'Insects, pests and pathogen outbreaks' or 'Wi hich of the following events have you already witnessed Choose one of the following answers hase choose only one of the following:) Strongly disagree) Disagree) Somewhat disagree) Neither agree or disagree) Somewhat agree) Strongly agree O think that the following changes hase choose the appropriate response for each item:	t: dfires' or 'Wind storm in your woodlots?) will happen of	n your woodl	ots? *	Neutral	Rather yes	Yes	Yes, I'm real
ly answer this question if the following conditions are me swer was 'Insects, pests and pathogen outbreaks' or 'Wi hich of the following events have you already witnessed Choose one of the following answers ase choose only one of the following: Strongly disagree Disagree Somewhat disagree Neither agree or disagree Somewhat agree Agree Strongly agree Dyou think that the following changes ase choose the appropriate response for each item:	t: dfires' or 'Wind storm in your woodlots?) will happen of	n your woodle	ots? *	Neutral	Rather yes	Yes	Yes, I'm real sure
y answer this question if the following conditions are measure was 'Insects, pests and pathogen outbreaks' or 'Winich of the following events have you already witnessed Choose one of the following answers ase choose only one of the following: Strongly disagree Disagree Somewhat disagree Neither agree or disagree Somewhat agree Agree Strongly agree O you think that the following changes ase choose the appropriate response for each item:	t: Iddires' or 'Wind storm in your woodlots?) will happen of Not at all	n your woodle	ots? *	Neutral	Rather yes	Yes	Yes, I'm rea sure
lly answer this question if the following conditions are me swer was 'Insects, pests and pathogen outbreaks' or 'Wi hich of the following events have you already witnessed Choose one of the following answers ease choose only one of the following:) Strongly disagree) Disagree) Somewhat disagree) Neither agree or disagree) Somewhat agree) Agree) Strongly agree	t: dfires' or 'Wind storm in your woodlots?) will happen of	n your woodle	ots? *	Neutral	Rather yes	Yes	Yes, I'm real sure

How much do you agree with the following statements? *

Please choose the appropriate response for each item:

In your opinion, when will	the first impacts of climate change become apparent in your woodlots? *
Only answer this question if the followi	ing conditions are met:
Scenario 1 Answer was greater than or equal to 'F	Rather yes' at question '44 [CCImpacts]' (Do you think that the following changes will happen on your woodlots? (Increase in tree mortality))
or Scenario 2	
or Scenario 3	Rather yes' at question '44 [CCImpacts]' (Do you think that the following changes will happen on your woodlots? (Changes in tree species composition))
Answer was greater than or equal to 'F or Scenario 4	Rather yes' at question '44 [CCImpacts]' (Do you think that the following changes will happen on your woodlots? (Increase in tree growth))
	Rather yes' at question '44 [CCImpacts]' (Do you think that the following changes will happen on your woodlots? (Decrease in tree growth))
or Scenario 5 Answer was greater than or equal to 'F	Rather yes' at question '44 [CCImpacts]' (Do you think that the following changes will happen on your woodlots? (Changes in soil fertility))
Choose one of the following answer	
Please choose only one of the following	ng:
They are already apparent	
O In 0 to 9 years	
In 10 to 29 years	
In 30 to 49 years	
In more than 50 years	
Other	
In your opinion, what perc	centage of your woodlots will be affected by the first impacts of climate change? *
Only answer this question if the followi	ing conditions are met:
	Rather yes' at question '44 [CCImpacts]' (Do you think that the following changes will happen on your woodlots? (Increase in tree growth))
or Scenario 2	Rather yes' at question '44 [CCImpacts]' (Do you think that the following changes will happen on your woodlots? (Changes in tree species composition))
or Scenario 3	
Answer was greater than or equal to 'F or Scenario 4	Rather yes' at question '44 [CCImpacts]' (Do you think that the following changes will happen on your woodlots? (Decrease in tree growth))
Answer was greater than or equal to 'F	Rather yes' at question '44 [CCImpacts]' (Do you think that the following changes will happen on your woodlots? (Changes in soil fertility))
or Scenario 5 Answer was greater than or equal to 'F	Rather yes' at question '44 [CCImpacts]' (Do you think that the following changes will happen on your woodlots? (Increase in tree mortality))
Only numbers may be entered in thi	
• Please check the format of your ans Please write your answer here:	swer.
Tiedde Wile your diswer nere.	
Please set a number between 0 and 1	.00.
If you would like to, pleas	e detail the answers to the previous questions (your views on and experiences of climate change).
Please write your answer here:	o dotain the anomale to the provided quoestine (your views on and experiences of diffract sharings).
,	
our relationship to the	e world of forestry in the context of climate change
The next two questions a	re about your relationship with other people and organizations involved in forest management.
This is the second to last	section.
Who do you think should	lead the way in implementing climate change adaptations? *
Check all that apply	
Please choose all that apply:	
Private forest owners	
Environmental organizations/NGO	
Forest professionals (e.g., forest e Officials of the provincial ministry i	engineer, logging contractor services, etc.) in charge of forests
Forest certification organizations	··· -·····g···
Other:	

	Strongly disagree	Disagree	Somewhat disagree	Neither agree or disagree	Somewhat agree	Agree	Strongly agree
To reduce the risk that my woodlots may suffer from climate change, I would accept restrictions or requirements on harvesting timber on my woodlots.	0	0	0	0	0	0	0
To reduce the risk that my woodlots may suffer from climate change, I would be willing to come together with other forest owners in order to manage our woodlots together.	0	0	0	0	0	0	0
Regulations are important to adapt private forests to climate change.	0	0	0	0	0	0	0
Voluntary programs are important to adapt private forests to climate change.	0	0	0	0	0	0	0
I feel that people close to me expect me to change my management practices to adapt to climate change.	0	0	0	0	0	0	0
Seeing other forest owners change their forestry practices to adapt to climate change motivates me to do so, too.	0	0	0	0	0	0	0
last faw guestions to know more	ahout voi	ır					
last few questions to know more This information will help us better under confidential.	stand your p	revious answ			le will remain	anonymou	s and strictly
This information will help us better under confidential. This is the last section. At the end, you w	stand your p	revious answ			de will remain	anonymou	s and strictly
This information will help us better under confidential. This is the last section. At the end, you we have did you find out about this questions. Comment only when you choose an answer.	stand your p	revious answ			de will remain	anonymou	s and strictly
This information will help us better under confidential. This is the last section. At the end, you well the last section will be commented the comment only when you choose an answer. Dease choose all that apply and provide a comment:	stand your p	revious answ			de will remain	anonymou	s and strictly
This information will help us better under confidential. This is the last section. At the end, you we have the last section of the end, you we have the last section of the end, you we have the end of the end, you we have the end of the end.	stand your p	revious answ			le will remain	anonymou	s and strictly
This information will help us better under confidential. This is the last section. At the end, you we have did you find out about this questions. Comment only when you choose an answer. Please choose all that apply and provide a comment: Facebook Twitter Newsletter	stand your p	revious answ			de will remain	anonymou	s and strictly
This information will help us better under confidential. This is the last section. At the end, you we have the last section of the end, you we have the last section. At the end, you we have the last section. At the end, you we have the last section. At the end, you we have the last section. At the end, you we have the end of the end.	stand your p	revious answ			de will remain	anonymou	s and strictly

How much do you agree with the following statements? *

What is your age? *
Choose one of the following answers
Please choose only one of the following:
18-29 years old
30-39 years old
○ 40-49 years old
◯ 50-59 years old
○ 60-69 years old
70 years old or older
I prefer not to answer
What gender do you identify with? *
Choose one of the following answers
Please choose only one of the following:
○ Male
Female
I prefer not to answer
Other
Do you identify as First Nation, Métis or Inuit? *
Choose one of the following answers Please choose only one of the following:
○ Yes
○ No
I prefer not to answer
On average, how much of your annual family income comes from your woodlots? *
Choose one of the following answers Please choose only one of the following:
1 to 10 %
① 11 to 30 %
31 to 50 %
○ 51 to 75 %
76 to 100 %
○ I prefer not to answer
What is the highest level of education you have completed? *
Choose one of the following answers Please choose only one of the following:
Primary school or equivalent
Secondary school or equivalent
Vocational school or equivalent
University degree or equivalent
I prefer not to say
Other

Do you have a degree related to forestry (forester, technician, engineer, etc.)? * Only answer this question if the following conditions are met: Answer was 'Vocational school or equivalent' or 'Other' at question '58 [education]' (What is the highest level of education you have completed?) and Answer was greater than or equal to 'Vocational school or equivalent' or 'Other' at question '58 [education]' (What is the highest level of education you have completed?) Ochoose one of the following answers Please choose only one of the following: Yes No
Which professional category best describes you? * ① Choose one of the following answers Please choose only one of the following: Retired No professional activity Primary sector (agriculture, livestock, fishing, forestry, mining or oil extraction, etc.) Secondary sector (food-processing, construction, production of goods and equipment, etc.) Tertiary sector (commerce, administration, education, health, etc.) I prefer not to answer Other
How often do you visit at least one of your woodlots? * ① Choose one of the following answers Please choose only one of the following: Never Once every five years Once a year Several times a year Every month Every week Every day Other
If you would like to, please write additional comments or other information that would help us to to understand you better. Please write your answer here: hank you very much! And more about the lottery hank you very much, your participation helps us to understand how Canadian forest owners adapt their forest management of climate change. Your answers have been saved.

You can email $\underline{\text{timothee.fouqueray}} \underline{@uqo.ca}$ if you wish to be kept informed of the results of this questionnaire.

To show our gratitude for your support, we would like to offer you a chance to win one of three gift-vouchers worth 500\$, 300\$ or 200\$. To participate, simply click on the link below.

 $\textbf{Link to the lottery} \ (\texttt{https://docs.google.com/forms/d/e/1FAlpQLSelESn_kbHOHLlkzvAHeMMvfRhQyadlO16J89bpV6VvJCsYxw/viewform?usp=pp_url)}$

If you do not wish to participate, you may simply close this window -- your answers to the question naire have been saved.

Submit your survey.
Thank you for completing this survey.