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2019 Winter Transportation Study -- Final Survey

Welcome to the **Final Survey**! Thank you for reporting your travel patterns and for completing earlier surveys. We greatly appreciate your responses.

As a reminder, you can view the Letter of Information about this study.

In this survey, we are asking for **your thoughts, opinions, and attitudes** about a number of different topics related to transportation.

This survey should take approximately **15 minutes** to complete. You can track your progress on the grey/blue bar at the top of the screen.

Every adult member of your household (age 18+) should take this survey once.

After completing this survey, you will be redirected to a link where another person can start over at the beginning.

If you have any questions about this survey, please email transportation.study@usu.edu or contact the principal investigator, Patrick A. Singleton (patrick.singleton@usu.edu or 435-797-7109).

You must be 18 years old or older to complete this survey. Please confirm this by checking the box below.
☐ I confirm that I am at least 18 years of age.
Click "Next" to begin the survey.
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What is your HOUSEHOLD CODE? See the email you recently received.
What is your NAME? A first name is fine. Providing this will help link your responses on this survey with previous surveys.

If you or your household has experienced any major CHANGES since joining this study, please describe them below. Please indicate if and describe how any of the following changes occurred:

• Gained or lost household members

- Moved home locations
- Changed jobs or work locations
- Changed schools
- Purchased or sold a motor vehicle
- Or similar changes...

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Attitudes

First, we would like to ask you about some of your personal values and attitudes.

Please answer truthfully and honestly.

Please rate the IMPORTANCE of each of the following VALUES as a guiding principle in your life. Be sure to vary your scores; do not rate everything as extremely important.

	Opposed to my values	Not at all important	Slightly important	Moderately important	Very important	Extremely important
A world at peace: free of war and conflict	0	0	0	0	0	0
Social justice: correcting injustice, care for the weak	0	0	0	0	0	0
Respecting the earth: harmony with other species	0	0	0	0	0	0
Wealth: material possessions, money	0	0	0	0	0	0
Authority: the right to lead or command	0	0	0	0	0	0
	Opposed to my values	Not at all important	Slightly important	Moderately important	Very important	Extremely important
Equality: equal opportunity for all	0	0	0	0	0	0
Protecting the environment: preserving nature	0	0	0	0	0	0
Unity with nature: fitting into nature	0	0	0	0	0	0
Influential·						

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Please state how much you agree with the following statements about THE ENVIRONMENT.

	Strongly disagree	Somewhat disagree	Neither agree nor disagree	Somewhat agree	Strongly agree
We are approaching the limit of the number of people the earth can support.	0	0	0	0	0
Humans have the right to modify the natural environment to suit their needs.	0	0	0	0	0
When humans interfere with nature, it often produces disastrous consequences.	0	0	0	0	0
Human ingenuity will ensure that we do NOT make the earth unlivable.	0	0	0	Ο	0
	Strongly disagree	Somewhat disagree	Neither agree nor disagree	Somewhat agree	Strongly agree
Humans are severely abusing the environment.	0	0	0	0	0
The earth has plenty of natural resources if we just learn how to develop them.	0	0	0	Ο	Ο
Plants and animals have as much right as humans to exist.	0	0	0	0	0
The balance of nature is strong					

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Please state how much you agree with the following additional statements about THE ENVIRONMENT.

	Strongly disagree	Somewhat disagree	Neither agree nor disagree	Somewhat agree	Strongly agree
Despite our special abilities humans are still subject to the laws of nature.	0	0	0	Ο	0
The so-called "ecological crisis" facing humankind has been greatly exaggerated.	0	0	Ο	Ο	0
The earth is like a spaceship with very limited room and resources.	0	0	0	0	0
Humans were meant to rule over the rest of nature.	0	0	0	0	0
	Strongly disagree	Somewhat disagree	Neither agree nor disagree	Somewhat agree	Strongly agree
The balance of nature is very delicate and easily upset.	0	0	0	0	0
Humans will eventually learn enough about how nature works to be able to control it.	Ο	0	0	0	0

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Please state how much you agree with the following statements about HEALTH.

	Strongly disagree	Somewhat disagree	Neither agree nor disagree	Somewhat agree	Strongly agree
I do everything I can to stay healthy.	0	0	0	0	0
Living life in best possible health is very important to me.	0	0	0	Ο	Ο
I actively try to prevent disease and illness.	0	0	0	0	0
Eating right, exercising, and taking preventative measures will keep me healthy for life.	0	0	Ο	0	0
	Strongly disagree	Somewhat disagree	Neither agree nor disagree	Somewhat agree	Strongly agree
My health depends on how well I take care of myself.	0	0	0	0	0
I like eating healthy foods.	0	0	0	0	0
I like exercising.	0	0	0	0	0
I like going to the doctor.	0	0	0	0	0

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Efficacy & norms

These questions ask for your opinion on how you, your family/friends, and governments/institutions think about the use of various transportation modes.

I think...

	Much less	Somewhat less	About the same	Somewhat more	Much more	No opinion
I should drive	0	0	0	0	0	0
Other people should drive	0	0	0	0	0	0
I should walk, bicycle, and ride public transit	0	0	0	0	0	0
Other people should walk, bicycle, and ride public transit	0	0	0	0	0	0

My family and friends think...

	Much less	Somewhat less	About the same	Somewhat more	Much more	No opinion
I should drive	0	0	0	0	0	0
Other people should drive	0	0	0	0	0	0
I should walk, bicycle, and ride public transit	0	0	0	0	0	0
Other people should walk, bicycle, and ride public transit	0	0	0	Ο	0	0

Local governments and other social institutions think...

	Much less	Somewhat less	About the same	Somewhat more	Much more	No opinion
I should drive	0	0	0	0	0	0
Other people should drive	0	0	0	0	0	0
I should walk, bicycle, and ride public transit	0	0	0	0	0	0
Other people should walk, bicycle, and ride public transit	0	0	0	0	0	0

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Please state how much you agree with the following statements.

I CAN use transportation methods other than my own car (such as walking, bicycling, or public transit)...

	Strongly disagree	Somewhat disagree	Neither agree nor disagree	Somewhat agree	Strongly agree	Not applicable
Even when it is inconvenient.	0	0	0	0	0	0
Even if it takes longer.	0	0	0	0	0	0
Even when I am running late.	0	0	0	0	0	0
Even when I am tired.	0	0	0	0	0	0
Even when the weather is bad.	0	0	0	0	0	0
Even when my regular schedule changes.	0	0	0	0	0	0

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Awareness

Next, we would like to ask for your opinions about local air pollution.

In your opinion, how much does air pollution in Cache Valley NEGATIVELY IMPACT each of the following?

	Not at all	A little	Moderately	A lot	No opinion
Human health	0	0	0	0	0
Animal health	0	0	0	0	0
Plant health	0	0	0	0	0
Water quality	0	0	0	0	0
Local economy	0	0	0	0	0

In your opinion, how much does each of the following CONTRIBUTE to air pollution in Cache Valley?

	Not at all	A little	Moderately	A lot	No opinion
Terrain (mountains & valleys)	0	0	0	0	0
Animal waste (from cows & other livestock)	0	0	0	0	0
Motor vehicle emissions (from cars, trucks, etc.)	0	0	0	0	0
Weather (temperature, precipitation, etc.)	0	0	0	0	0
Smoke (from wood/coal burning stoves, wildfires, etc.)	0	0	0	0	0

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These next questions ask for your thoughts on how you, your family/friends, and governments/institutions view air quality issues.

Please state how much you agree with the following statements.

I think...

	Strongly disagree	Somewhat disagree	Neither agree nor disagree	Somewhat agree	Strongly agree	No opinion
Air pollution is a big problem.	0	0	0	0	0	0
Transportation is a major cause of air pollution.	0	0	0	0	0	0
My current transportation behaviors have a positive impact on air quality.	0	0	0	0	0	0
If I make small changes to my transportation choices, I can improve air quality.	0	0	0	0	0	0
If many people all make small changes to their transportation choices, we can improve air quality.	0	Ο	0	Ο	0	0
Vehicle and fuel technologies will help improve air quality.	0	0	0	0	0	0

My family and friends think...

	Strongly disagree	Somewhat disagree	Neither agree nor disagree	Somewhat agree	Strongly agree	No opinion
Air pollution is a big problem.	0	0	0	0	0	0
Transportation is a major cause of air pollution.	0	0	0	0	0	0
If many people all make small changes to their transportation choices, we can improve air quality.	Ο	0	0	0	0	0
Vehicle and fuel technologies will help improve air quality.	0	0	0	0	0	0

Local governments and other social institutions think...

	Strongly disagree	Somewhat disagree	Neither agree nor disagree	Somewhat agree	Strongly agree	No opinion
Air pollution is a big problem.	0	0	0	0	0	0
Transportation is a major cause of air pollution.	0	0	0	0	0	0
If many people all make small changes to their transportation choices, we can improve air quality.	0	Ο	Ο	Ο	Ο	0
Vehicle and fuel technologies will help improve air quality.	0	0	0	0	0	0

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Idling refers to running a motor vehicle's engine while the vehicle is not in motion, such as while parked outside a residence, school, or business.

In the following scenarios, how OFTEN do you IDLE your car?

	Never	Rarely	Sometimes	Frequently	Always	Not applicable
When I am dropping people off.	0	0	0	0	0	0
When I am waiting to pick people up.	0	0	0	0	0	0
On cold days, when I want to let the car warm up.	0	0	0	0	0	0
On hot days, when I want to keep the air conditioning on.	0	0	0	0	0	0
When I want to keep other electronics on (such as the radio or sound system) without draining the battery.	0	0	0	0	0	Ο
Other (please specify)	0	0	0	0	0	0

Which of the following statements best reflects your understanding of the legal status of IDLING in the City of Logan?

O	Idling for longer than 2 minutes is prohibited when the temperature is warmer than 0°F.
0	I have no idea.
0	Idling vehicles must not be left unattended.
0	There are no anti-idling ordinances in Logan.
0	Idling for any length of time is prohibited during an inversion event.

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Behavior change	
Now, we are interested in learning if and how air pollution affects your partial transportation choices.	personal
When the air quality in Cache Valley is bad, do you do any of the for Check all that apply.	ollowing?
☐ I carpool with others to work or school.	
☐ I use public transit for some/all of my trips.	
☐ I walk or bicycle for some/all of my trips.	
I try to trip chain, grouping my errands into one trip instead of returning hon each one.	ne after
☐ I telecommute, working or studying at home.	
☐ I skip or postpone making some trips until the air quality is better.	
I make sure not to idle or keep my motor vehicle running when parked.	
Other (please specify)	
☐ None of the above	
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When the air quality in Cache Valley is bad, approximately what portion of the general population do you think does the following?

Approximate percentage of the general population

	< 5%	20%	35%	50%	65%	80%	>95%
Carpools with others to work or school.	0	0	0	0	0	0	0
Uses public transit for some/all trips.	0	0	0	0	0	0	0
Walks or bicycles for some/all trips.	0	0	0	0	0	0	0
Trip chains, grouping errands into one trip instead of returning home after each one.	0	0	0	0	0	0	0
Telecommutes, working or studying at home.	0	0	0	0	0	0	0
Skips or postpones making some trips until the air quality is better.	0	0	0	0	0	0	0
Makes sure not to idle or keep their motor vehicle running when parked.	0	0	0	0	0	0	0
Other (please specify)	0	0	0	0	0	0	0
None of the above	0	0	0	0	0	0	0

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Recent <u>studies</u> from researchers at USU and other institutions have found that the transportation sector (specifically, motor vehicle emissions) contributes a substantial portion of the chemical compounds and particles that contribute to air quality issues in Cache Valley.

As a result, researchers and public policy-makers are looking for transportation-related solutions that can reduce air pollution. The following questions ask about *your thoughts on various strategies*.

How much do you SUPPORT each of the following transportation-related strategies for addressing air quality issues in Cache Valley? Drag each strategy (listed on the left) into the appropriate box (on the right).

Note: Non-automobile transportation options include walking, bicycling, public transit, etc.

Items

Offering financial incentives for getting rid of older or higher-polluting motor vehicles

Offering discounts on the purchase of hybrid or electric motor vehicles

Providing more information and education about air quality issues and causes

Restricting the development of farm and natural land and concentrating development in existing cities/towns

Imposing stricter vehicle emissions inspection standards

Increasing fuel taxes to pay for more nonautomobile transportation options

Having local governments sell "clean air bonds" to pay for more nonautomobile transportation options

Increasing vehicle registration fees to pay for more non-automobile transportation options

I would strongly support this	

I might support this

I would never support this

If you have a	any other ideas fo	or addressing ai	r quality issue:	s in Cache Vall	ey,
please desci	ribe them below.				

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Organizations

We have just one final question for you about *your awareness of various* transportation and air quality organizations and programs.

How much do you know about the following ORGANIZATIONS or PROGRAMS?

	Never heard of it	Heard of it, but not familiar with it	Familiar with it
Breathe Utah	0	0	0
Cache Clean Air Consortium	0	0	0
Clear the Air Challenge	0	0	0
TravelWise: Rethink Your Trip	0	0	0
Utah Clean Air Partnership (UCAIR)	0	0	0
Utah Clean Cities Coalition	0	0	0

If you are interested in learning more about these organizations and programs, you can visit the following websites:

Breathe Utah: https://www.breatheutah.org/

Cache Clean Air Consortium: http://www.cachecleanairconsortium.org/

Clear the Air Challenge: http://cleartheairchallenge.org/

TravelWise: Rethink Your Trip: https://travelwise.utah.gov/

Utah Clean Air Partnership: https://www.ucair.org/

Utah Clean Cities Coalition: http://utahcleancities.org

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End

Thank you very much for answering these questions, \${q://QID61 /ChoiceTextEntryValue}. You are all done!

On the next page, you will be able to see and save a copy of your responses.

If there are other adult members of your household, make sure that each of them takes this survey. After completing this survey, you will be redirected to a link where another person can start over at the beginning.

	if you have any comments for the research team about this or previous
,	surveys, please provide them below. We appreciate your feedback.

Click "Submit" to end the survey.

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