ATTACHMENT #1

MUNICIPALITY OF NORTH COWICHAN

CLIMATE CHANGE ADAPTATION STRATEGY

PHASE 1 WHAT WE HEARD REPORT

September 2023



Prepared for:

Municipality of North Cowichan
7030 Trans-Canada Highway
Duncan, BC V9L 6A1

URBAN SYSTEMS

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1.0 BACKGROUND

The Municipality of North Cowichan (MNC) is developing a **Climate Adaptation Strategy** to prepare for the effects of climate change on municipal service delivery. Building off recent work by MNC and the Cowichan Valley Regional District, this project will create actions designed to make MNC's infrastructure, operations, facilities, and services more resilient to climate hazards and disasters in our region (e.g., flooding, wildfires, extreme heat, sea level rise).

Developing this strategy is an identified priority from Council's Strategic Plan, and funding for this project is provided by the Community Emergency Preparedness Fund through UBCM. The Municipality has retained Urban Systems Ltd. as a consultant to coordinate this work.

Work is taking place over three major phases, with an end date targeted in February 2024. The strategy is being developed in close collaboration with MNC departments, with additional input from MNC residents, First Nations communities, and external partners.

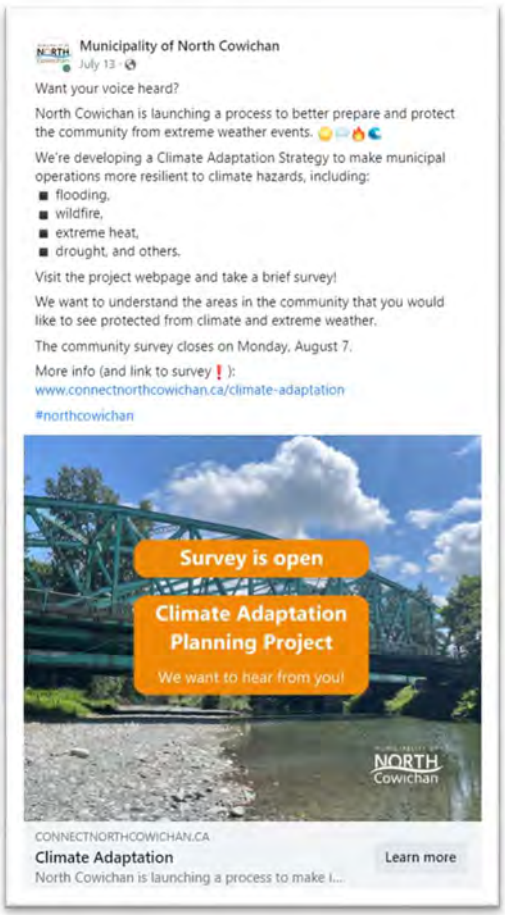


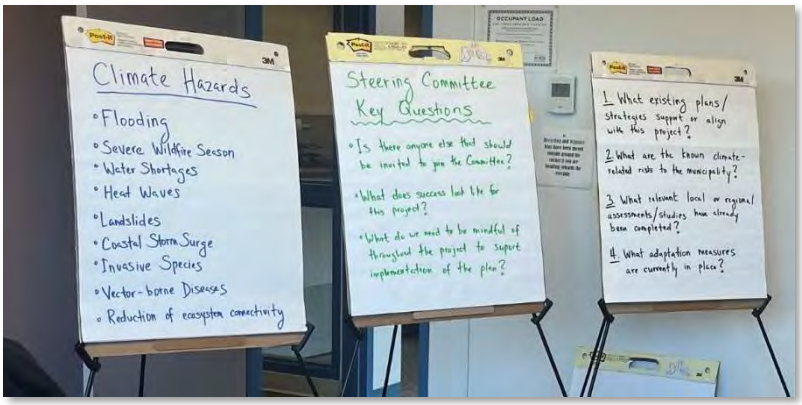
Community engagement is essential to understanding the municipality's vulnerabilities to climate change, and for MNC to learn the community's concerns around climate hazards and disasters. The purpose of this "What We Heard" report is to provide a summary of all engagement activities completed in Phase 1, between June and September 2023, which included the community survey, mapping activity, interviews with interested parties, and engagement with local First Nations.

1.1 Engagement Objectives

The activities were designed to meet the following engagement objectives:

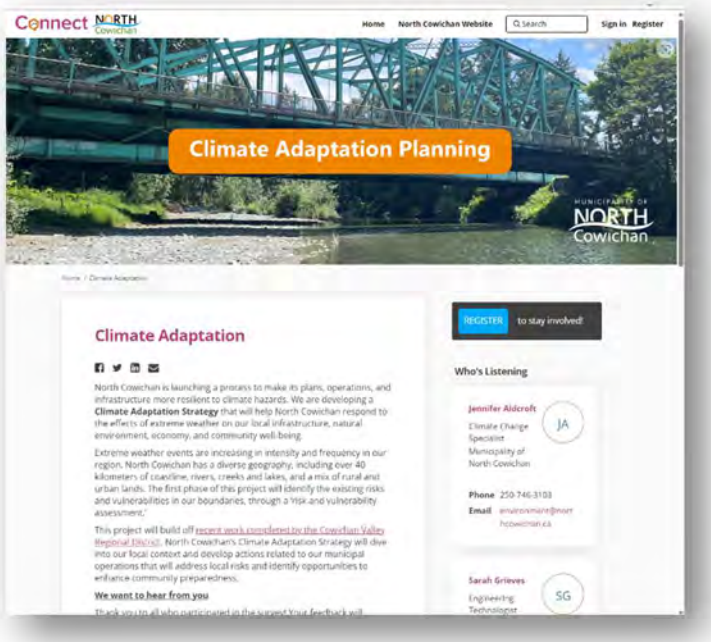
- To inform community members of the purpose and potential outcomes of the climate adaptation work MNC is undertaking.
- To share the process with residents and stakeholders and listen to their concerns and aspirations for the project.
- Design engagement opportunities to hear from a diverse range of audiences and stakeholders.
- Ensure stakeholders and community members feel as though their feedback was heard and understood.
- Establish or strengthen relationships with Indigenous Peoples, external partners, and community members to build capacity across the municipality for future collaborative action and coordination.







1.2 What We Did



Community survey

On July 13, MNC launched a project webpage on "Connect North Cowichan" containing information about the project, a community survey, mapping exercise, and Q&A forum.

The survey was open between July 13 and August 7, 2023. Its purpose was to engage with participants about their experiences with climate hazards and disasters in the community, as well as their vision for future climate action by North Cowichan.

The survey received **156 responses**, and the results are summarized in Section 2.1 of this report. The full set of results, including written comments, are contained in **Appendix A**.

Mapping exercise

To accompany the survey, a virtual mapping exercise was available on the "Connect North Cowichan" project page. The optional activity asked participants, "What areas of North Cowichan are most vulnerable to climate hazards?" and participants could place a virtual pin on a map of MNC with a comment. During the engagement period, there were **3 pins placed** from 2 different contributors. The results of the activity are contained in **Appendix B**.

Q&A forum

The "Connect North Cowichan" page also contained a 'Question and Answer' forum, wherein participants could submit their own questions to the project team. During the engagement period, a total of **26 questions** were asked from 20 different contributors. The results from the Q&A tool are contained in **Appendix C**.

Interviews with interested parties

Interviews were held with organizations with a vested interest in climate-related challenges and community preparedness. The organizations included:

- Island Health (health sector)
- Social Planning Cowichan (non-profit, vulnerable populations)
- Cowichan Valley Regional District (emergency management, economic development)
- Western Forest Products (major employer)
- Paper Excellence (major employer)

Key takeaways from each meeting are summarized in Section 2.2.

First Nations Engagement

The project team invited six First Nations to engage on the project: Cowichan Tribes, Halalt First Nation, Lyackson First Nation, Penelakut Tribe, Stz'uminus First Nation, and Snuneymuxw First Nation. A comprehensive review of each nation's existing climate change work was also completed to inform this process.

On September 25, the project team held an interactive workshop with representatives from Cowichan Tribes, Halalt First Nation, and Lyackson First Nation. Key takeaways from this meeting are summarized in Section 2.3.

1.3 How We Connected

The opportunity to provide input was shared with the public via:

- ConnectNorthCowichan.ca project page
- News release issued on July 12, 2023
- July 12 story on SunFM (radio)
- "News & Updates" e-newsletters:
    - July 14 – 670 recipients
    - July 28 – 691 recipients
- Connect North Cowichan e-newsletter sent to 754 recipients
- Social media posts reaching:
    - Facebook posts: 7,632
    - X (Twitter): 433

The Connect North Cowichan page received the following traffic: 1,171 page visits, 156 surveys completed, 26 Q&A's, and 3 Places Mapped.

2.0 WHAT WE HEARD

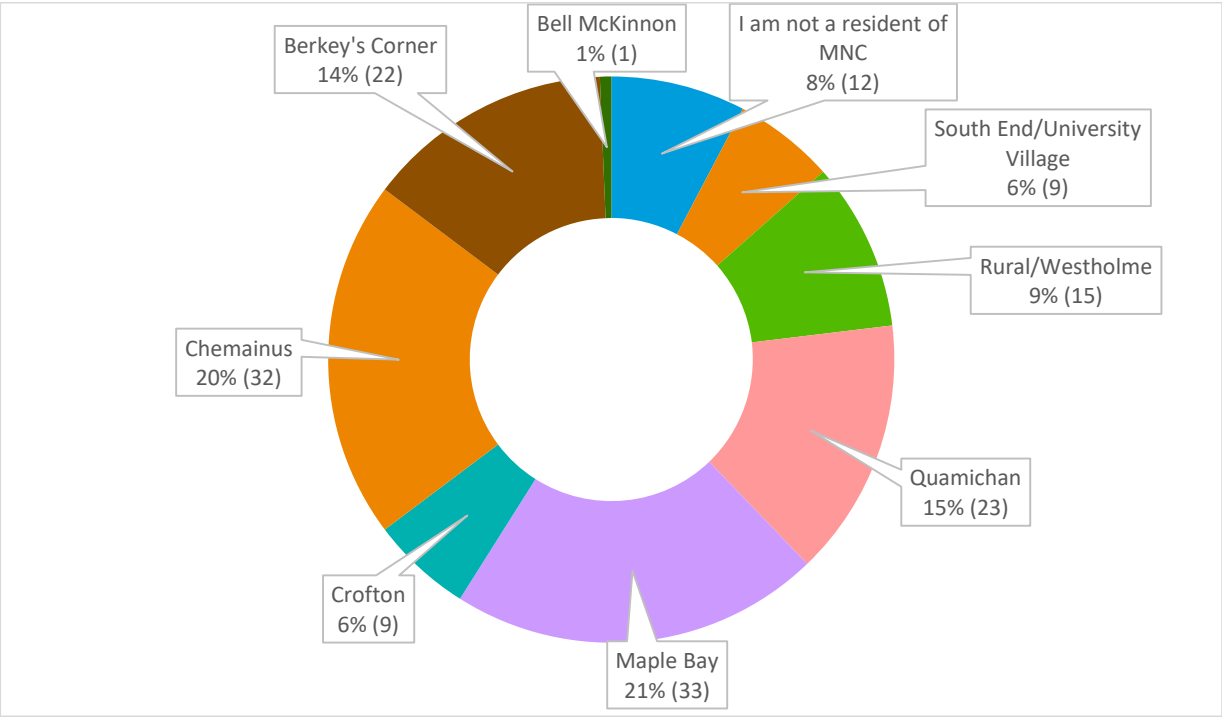
2.1 Community Survey

The Climate Adaptation survey received **156 responses**. Registered users on Connect North Cowichan could complete the survey to reduce the likelihood of receiving multiple responses from the same individual. As participants elected to take the survey, responses do not reflect a random sample.

Who We Heard From

Overall, survey participants were represented by North Cowichan residents (144, or 92%). The highest number of respondents indicated that they live in Maple Bay (33, or 21%), Chemainus

(32, or 20%), and Quamichan (23, or 15%). The graph below shows the location where respondents live.



Question 1: What changes have you observed in North Cowichan's climate over time? (e.g. changes to weather patterns, frequency of extreme events, etc.) (n=156)

The first question of the survey asked respondents to describe any changes they have observed in North Cowichan's climate over time. From 156 responses, a majority of comments expressed that the region's summers are **hotter** and **drier** than previous years, extending longer than usual with higher temperatures and low precipitation. Some of these comments pointed to the heat domes that have occurred in recent years, the Valley's extended drought conditions, and the shortening of the shoulder seasons between summer and winter.

The remaining comments fell into the following themes:

- **More extreme weather events:** Stronger storms, atmospheric rivers, windstorms, more extreme heatwaves, winter storms
- **More precipitation and/or flooding:** Concentrated rainfall in the cooler months, which lead to more destructive flooding events.
- **Changes to the natural environment:** Loss of native plants, warmer lakes and rivers, cedar/fir trees dying, fewer birds and insects.
- **No observed changes:** Some participants expressed that the recent weather patterns are part of a normal climate cycle, and not a factor of human-caused climate change.

- **Lower water levels:** Less groundwater, local streams drying up, low levels in the Cowichan, Koksilah, and Chemainus Rivers.

The full set of comments are contained in **Appendix A.** Below are some representative quotes from survey respondents.

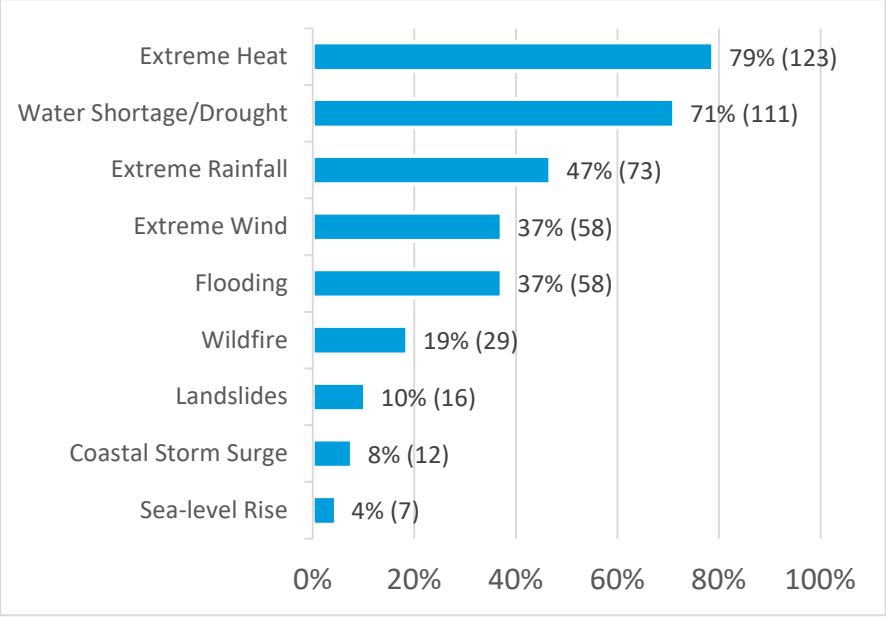
"The summers have been hotter, water shortages happen earlier in the year, more extreme weather events, more wildfires each season."

"My garden used to grow things like rhododendrons easily, now they are having problems with insufficient water."

"Dying cedar and now the Coastal Douglas fir trees. Summer after summer of droughts and a heat dome have been very hard on trees. This leads to soil instability and that makes the floods worse."

"None. The conditions have always fluctuated from one extreme to the other over the years."

Question 2: Which of the following climate hazards have you experienced in North Cowichan? (n=156)

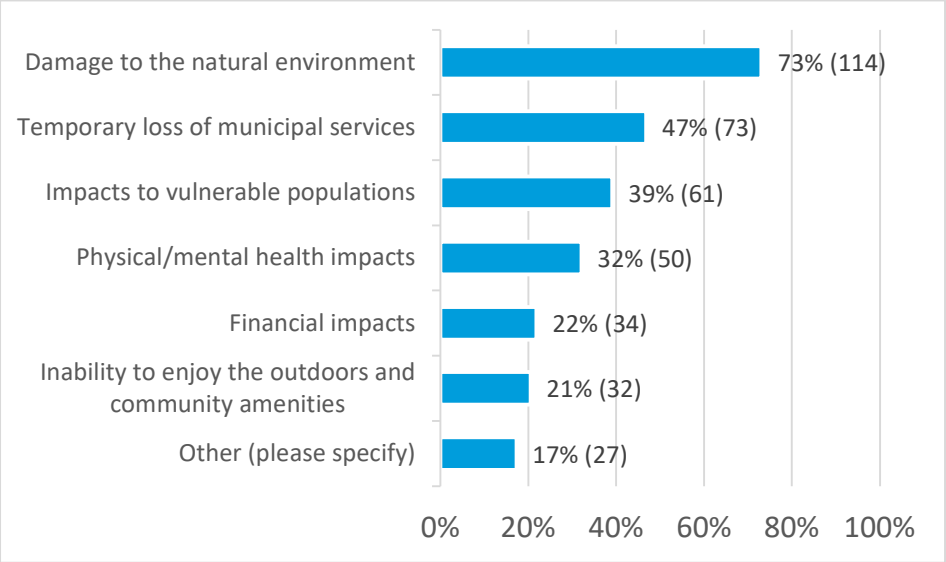


Respondents were then asked to select which climate hazards they have experienced while living North Cowichan. Of 156 respondents, 123 (79%) have experienced extreme heat

conditions and 111 (71%) have experienced water shortages and/or drought. These were the two most popular responses, which support the top two themes in Question 1.

Respondents also indicated they have experienced extreme rainfall (47%), extreme wind (37%), flooding (37%), and wildfire (19%). The remaining options – landslides, coastal storm surge, and sea-level – were selected by 10 percent of respondents or less.

Question 3: What impacts from climate events are you most concerned about? (Choose your top three) (n=156)



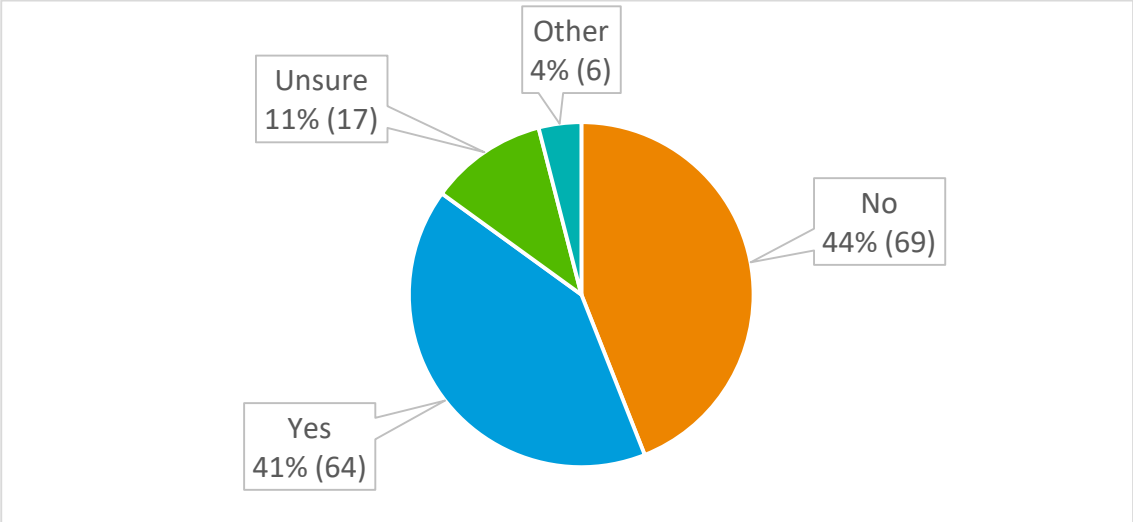
Question three asked participants to indicate their top three concerns related to climate events. The top answer, selected by 114 respondents (73%), was "damage to the natural environment.". The next most popular answer was "temporary loss of municipal services" (47%), which include drinking water, local roads, and electricity, followed by "impacts to vulnerable populations" (39%), "physical/mental health impacts" (32%), financial impacts (22%), and "inability to enjoy the outdoors and community amenities" (21%).

"As farmers, our entire livelihood is affected by climate change.

Flooding, fires, and water restrictions could put us out of business and we would have to move elsewhere."

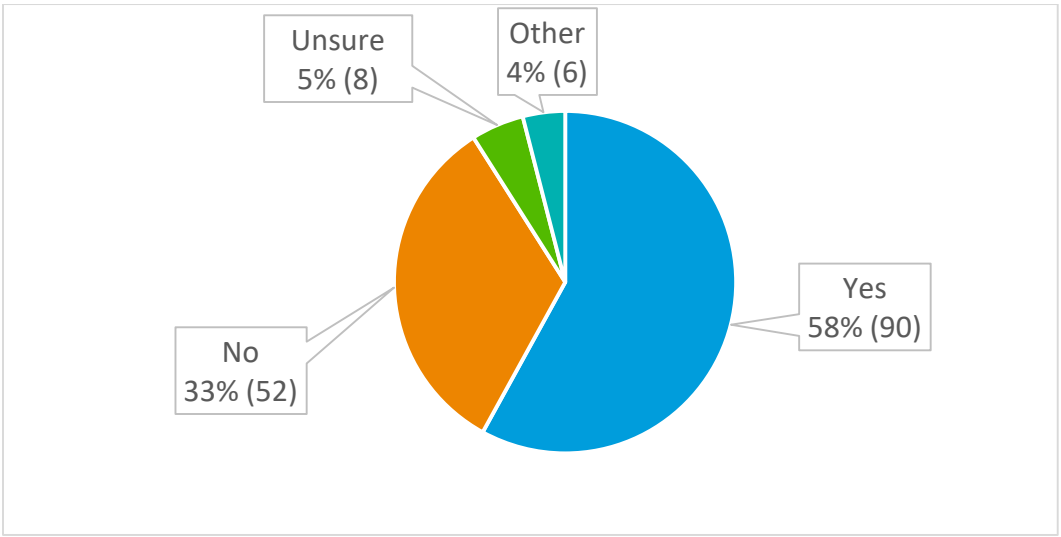
The remaining 27 responses (17%) chose "Other" and provided their own answers to this question. A number of additional concerns were mentioned, including wildfire devastation, loss of food sources and wildlife, the inability to farm, and rising insurance rates. Some participants indicated they have no concerns related to climate or expressed dissatisfaction with the North Cowichan's initiatives related to climate action.

Question 4: Have you, or someone you know, experienced financial losses or property damages because of a climate hazard or climate event? (n=156)



For this question, 69 respondents (44%) indicated that they have not experienced financial losses or property damage from a climate hazard or event. This is closely followed by 64 respondents (41%) who indicated they have incurred financial losses and/or property damage. An additional 17 respondents (11%) were unsure, and six respondents (4%) chose "Other."

Question 5: Have you or someone you know experienced negative health impacts (including physical and mental health) because of a climate hazard or extreme weather event? (n=156)



A majority of respondents (58%) indicated they have experienced negative health impacts because of a climate hazard or extreme weather event. One-third of respondents (33%) have not suffered any physical or mental impacts, 8 additional respondents (5%) were unsure, and 6 respondents (4%) selected "Other."

Question 6: What impacts to municipal services have you observed or experienced in the community related to climate? (n=156)

This question asked respondents to comment on any service interruptions they have experienced due to a climate hazard. From 156 comments, the most common answers were **water restrictions** and **flooded roads**, followed by power outages. Respondents also mentioned delayed garbage pickup, waiting for snow removal, and road closures due to landslide debris.

The full list of responses are contained in **Appendix A**.

Question 7: Tell us about any other climate impacts you have observed or experienced. (n=116)

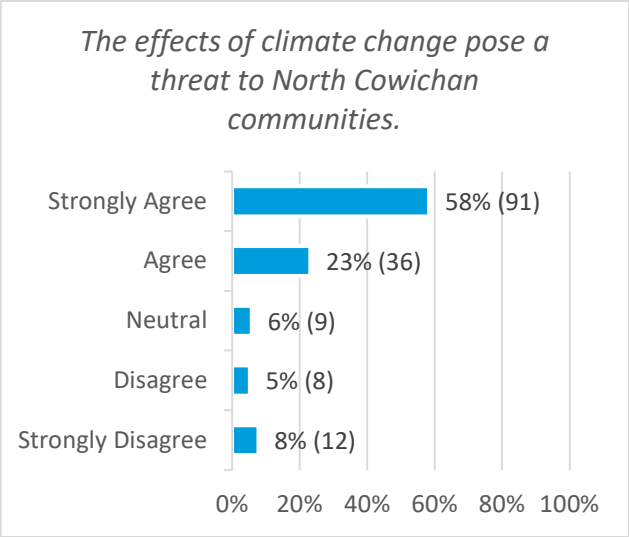
This optional question allowed respondents to write a comment about any additional climate impacts they have observed. From 116 responses, there was a variety of impacts and opinions shared. Impacts related to changes in the natural environment, increased risk of natural disasters (such as wildfire and landslides), worry about urban development in vulnerable areas, and future water shortages. The full set of comments are contained in **Appendix A**, but below is a selection of representative quotes from respondents:

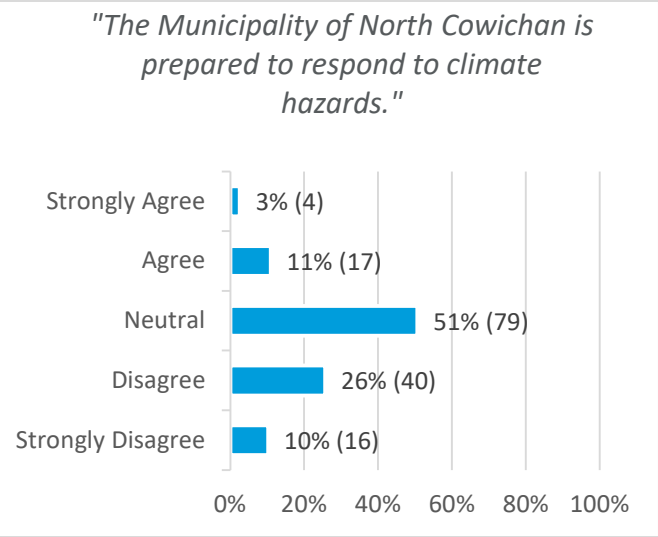
"Lots of stressed, dead and dying trees and shrubs. Sea star wasting disease, loss of canopy kelps, heat dome damage to the intertidal zone. Increased occurrence of blue green algae blooms."

"I am concerned about water security & related food security, having seen the severe issues the Sunshine Coast is experiencing."

"We have added central A/C to our home, which we have never needed before – and I have lived in BC all my life. Water restrictions are more imposing and last longer than ever before."

Question 8: For the statements below, please indicate your level of agreement: (n=156)

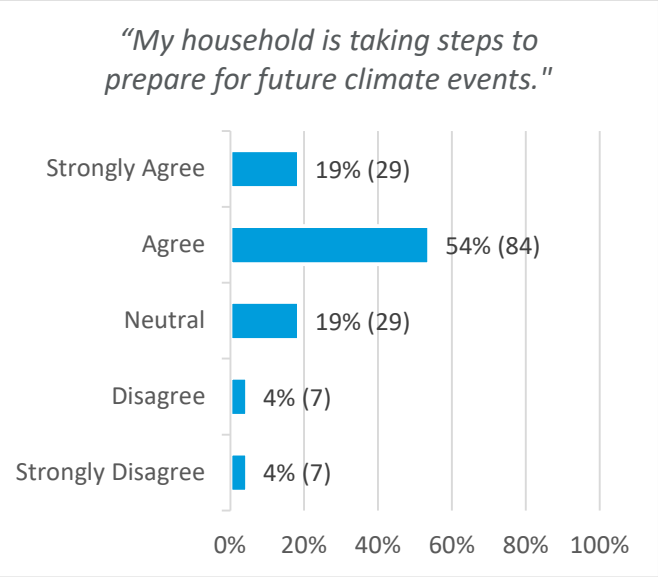




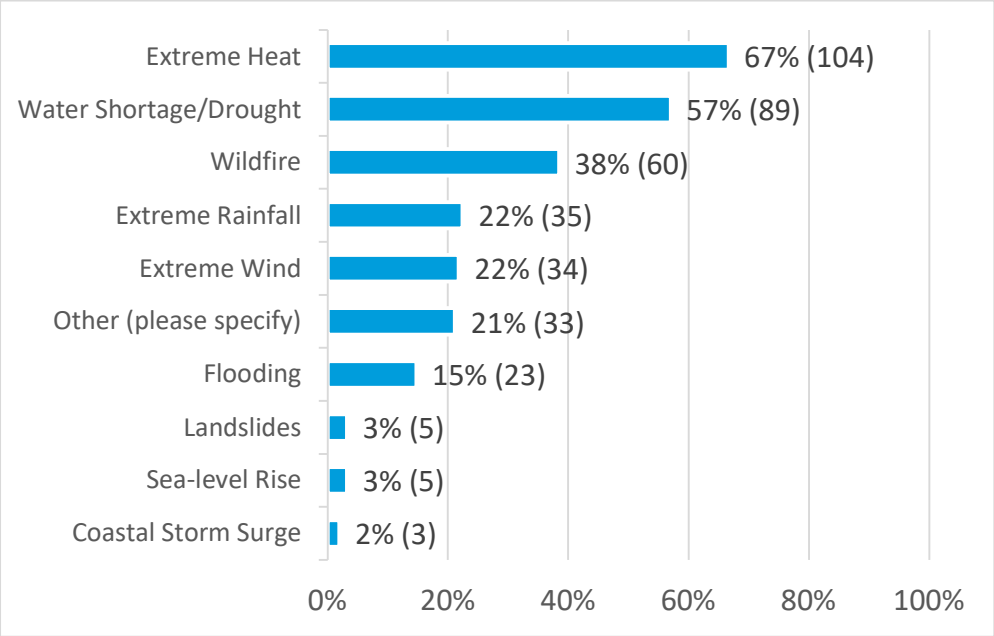
For question eight, respondents were asked to indicate their level of agreement for three related statements. In the first statement, 127 respondents (81%) agreed or strongly agreed that the effects of climate change pose a threat to communities in North Cowichan.

However, in the second statement, only 21 respondents (14%) agreed or strongly agreed that North Cowichan is prepared to respond to climate hazards. Over half of respondents (51%) felt they were neutral on the statement.

Meanwhile, responding to the third statement, 113 respondents (73%) are themselves taking steps to prepare for climate events in their own household.



Question 9: If your household is preparing for future climate events, what types are you preparing for?" (n=156)



Survey respondents were asked which types of climate events their households are preparing for. Two-thirds of respondents (67%) indicated they are preparing for extreme heat, and 89 respondents (57%) are preparing for water shortages or drought.

33 (21%) respondents selected "Other" and shared that they are preparing their homes for overall resilience, including seismic upgrades, heat pumps, generators, rainwater collection, and emergency supplies.

Others expressed that they would like to prepare for future extreme weather events, but the options are cost prohibitive. The full set of responses are contained in **Appendix A**.

Question 10: Do you have any additional comments or information you would like to share? (n=84)

The conclusion of the survey provided an opportunity for respondents to provide any additional comments or information to the project team. As this was an optional question, there were 84 total responses to this question. The full set of written comments are contained in **Appendix A.**

Broadly speaking, survey participants supported the principles of climate adaptation and believe that more needs to be done in North Cowichan to increase resilience. Respondents felt that North Cowichan is at a growing risk due to drought, wildfire, and flooding. Water storage remains an important issue to resolve, with several respondents prompting the Municipality to act on increasing storage capacity due to urban growth. Respondents are also widely concerned about protecting the region's natural environment, water sources, recreation areas,

and local biodiversity. There were also several ideas shared to enhance local climate adaptation measures, such as creating low-barrier, 24/7 cooling centres for vulnerable populations.

Alternatively, there were also several survey participants who were unsupportive of climate adaptation work, expressing that 'climate change' is an exaggerated term that describes a long-term pattern of heating and cooling throughout history. To this effect, climate adaptation work is seen as expensive and something that North Cowichan should not undertake.

As mentioned, the full set of written comments are contained in **Appendix A**, but below is a selection of quotes taken from respondents:

"Please make cooling centres available 24 hours a day in extreme heat. All homeless people should also have access to shelter from wildfire smoke when necessary, and from the heat and cold. Wildfire smoke can kill people with asthma, and virtually anyone, not only those with respiratory problems, can suffer greatly from inhaling the toxins and tiny particles."

"I would appreciate help with establishing cisterns and greywater systems to help fight drought."

"North Cowichan needs to work together on mitigation actions now. Stop kicking the can down the road by studying, consultants, surveys. The experts in Fire Department should have been working on many of these issues already."

"I hope that our elected officials will do everything within their power, adopt all best practices to help mitigate the impacts of climate change on North Cowichan, on our community.

Any costs attached to these initiatives would be insignificant relative to the costs of doing nothing, denying climate change, a business-as-usual approach. We need to be excellent stewards of this land, our beautiful community."

"Climate, in the long game on this planet, is always expected to swing. We definitely need to be prepared for extremes that our modern way of living has never experienced before, but we shouldn't do it in a manner that is alarmist."

"North Cowichan has an opportunity to be a leader."

"The District should concentrate delivering on basic services and keeping taxes low. Anything more is wasting tax dollars."

2.2 Interviews with interested parties

The following is a summary of conversations with local groups who were identified to inform North Cowichan's risk and vulnerability assessment. Interview participants were asked similar guiding questions, including:

"What changes in North Cowichan's climate have you observed over time?"

"What climate hazards (wildfire, heat waves, flooding, extreme storms, drought, etc.) is your organization most concerned about?"

"What opportunities do you see for the Municipality to enhance climate resilience as it relates to your work?"

To help engage with the youth's perspective on climate change, North Cowichan also coordinated a separate activity for a grade 5/6 class within School District 79. Key takeaways from all conversations are noted below.

Island Health (health sector)

- Drought is a priority for Island Health in the Cowichan Valley.
- Our ecosystem is our health system. Making our territory as healthy as it can be is fundamental for the community's health.
- There are huge mental, emotional, and spiritual health implications due to climate change/drought. It is affecting people's livelihoods (e.g., farmers) and the youth are vulnerable to stress and anxiety.
- MNC has a greater number of people with respiratory conditions, asthma conditions: poor air quality (pollution, wildfires) will impact them most. The extension of wildfire season is far overtaking previous years and affecting more people.
- Health outcomes are determined by the roads and parks we provide, the community's relationships with one another, and land stewardship. Island Health is happy to work with MNC to help decision making across the region.

Social Planning Cowichan (non-profits, vulnerable populations)

- Communities, particularly First Nations communities, are experiencing climate grief, as they cannot connect to the land as they were before. Cultural adaptation needs to occur alongside climate adaptation.
- People are burnt out and running emotionally thin because of multiple crises occurring at once (climate, COVID). People in general are reverting to self-protection and are less willing to engage with others to solve issues.
- Youth, seniors, people living alone, people working outside, and unhoused populations are particularly vulnerable to climate-related stress.
- MNC must work regionally to make lasting change.

Cowichan Valley Regional District (emergency management, economic development)

- Recent changes to provincial emergency management legislation means that the CVRD must focus on community resilience as well as disaster response.
- The future landscape about disaster reduction is not a place for individual actors; it is a place for regional cooperation across multiple groups.
- The hazards that are of greatest concerns here are atmospheric rivers (rapid onset flooding) and then drought, which often correspond with one another.
- Some areas of the CVRD have been in drought conditions for over 7 years. The concern around water availability will inhibit regional economic growth.

Western Forest Products (major employer)

- Cowichan Bay is prone to flooding and higher sea level impacts. Greatest concern lies on Tzouhalem Road, which floods regularly and blocks access to the mill on Cowichan Bay. This not only creates site access concern for employees and lumber trucks, but also presents a safety concern for ambulance response.
- Extreme heat also impacts the business' operations. The 2021 heat dome was the first time where operations had to be halted for an entire day, due to heat.
- Product is supplied from northern Vancouver Island and climate impacts could create harvest limitations.

Paper Excellence (major employer)

- Greatest concern is with water supply and watershed management. Paper Excellence own and operate the Cowichan Lake weir and water is a necessary input for plant operations. Water storage of the current weir is inadequate with climate changes. The solution has been well studied by the Cowichan Watershed Board.
- Climate events impacting fibre supply (e.g. forest fire) would have an upstream impact. Could impact sawmills, which would in turn impact the supply for Paper Excellence operations.

Youth (grade 5/6)

What do you think climate change is?

- Climate change is when we have extreme weather changes caused by pollution and greenhouse gases in the environment.

What parts of climate change are you worried about the most?

- 1) Wildfires 2) Extreme Heat 3) Flooding/Storms

How does climate change impact the activities that you enjoy the most? (i.e., cancelled sports games, too hot to play outside, house flooding, etc.)

- Not being able to play outside or go to sports when it's too hot.
- When I can't play hockey or lose WiFi in a big storm.
- Floods have affected my life.
- Can't go to the waterpark due to water restrictions.

What do you think we should do about climate change?

Society:

- Keep working on electric technology.
- Educate people on how to reduce water consumption.
- Be open to new ideas that other countries are doing (like water-powered cars)
- Use less Wifi.
- Ban plastic water bottles.
- Encourage/Force companies to make more biodegradable products.

North Cowichan Government:

- Make everyone go back to horse and buggy.
- Educate people in our district to stop polluting.
- Charge big fines for polluters.
- If we can't water our grass/lawns, the local gov't should also stop watering the parks. That would save lots of water.

2.3 Engagement with First Nations

On September 25, 2023, the project team held a workshop with representatives from Cowichan Tribes, Halalt First Nation, and Lyackson First Nation. The notes from this discussion are currently under review, and their findings will be made available at a later date.

3.0 NEXT STEPS

Engagement activities during Phase 1 will inform the comprehensive 'risk and vulnerability assessment' that will be developed for the Municipality. Local concerns and hazards identified during the engagement phase will be used to determine areas of vulnerability in MNC's services, infrastructure, and operations. This will form the basis of the Climate Adaptation Strategy that will be developed in Phase 3 of this project.

An additional round of community engagement will occur in Phase 3, to share findings and receive input on a draft Climate Adaptation Strategy.

This report will be posted to the engagement project page and people who asked to stay informed on the project will be notified.

APPENDIX A:

SURVEY RESULTS

July 13 – August 7, 2023

Connect NORTH Cowichan

North Cowichan Climate Hazards and Extreme Weather Survey

SURVEY RESPONSE REPORT
01 March 2022 - 17 September 2023

PROJECT NAME:
Climate Adaptation

BANG THE TABLE engagementHQ

SURVEY QUESTIONS

Q1 | What changes have you observed in North Cowichan's climate over time? (e.g. changes to weather patterns, frequency of extreme events, etc.)

Screen Name Redacted 7/13/2023 01:13 PM	Dryer, hotter, extremes
Screen Name Redacted 7/13/2023 12:50 PM	Random weather patterns - not as established seasons. Very hot days.
Screen Name Redacted 7/27/2023 04:19 PM	MANY: flooding, excessive heat, stronger winds, much less rainfall, unkept lawns/properties leading to higher chance of fires, landslides, fires, more frequent power outages (winds)
Screen Name Redacted 7/13/2023 08:11 PM	Summers are hotter (+heat domes), less rainfall, milder winters.
Screen Name Redacted 7/13/2023 08:55 PM	I have only lived here for [redacted], so I do not feel qualified to answer this - but clearly the flooding a couple years ago was extreme...
Screen Name Redacted 7/13/2023 10:05 PM	Drier longer summer
Screen Name Redacted 7/14/2023 06:44 AM	frequency and duration of drought conditions, changing harmful algal blooms, risk of significant forest fire, shortening of spring and fall seasons (a more abrupt shift from wintery weather to extreme heat and vice versa)
Screen Name Redacted 7/14/2023 07:29 AM	Increased heat in summer, increased winter storm intensity, atmospheric rivers bringing severe rain and flooding. Increased fire frequency and intensity. Droughts. Smoke filled summers
Screen Name Redacted 7/14/2023 08:55 AM	Flooding and extreme heat
Screen Name Redacted 7/14/2023 12:14 PM	increased significant wind events, increased and lengthened periods of drought, flooding, higher heat in the summer + heat domes, increased smoke, more fires/longer fire season

Screen Name Redacted 7/14/2023 12:32 PM	less precipitation, higher avg temps beginning earlier in the summer, more snow days in winter
Screen Name Redacted 7/14/2023 03:23 PM	Increasing heat and dry conditions in summer; poor air quality or 'stagnant' air (inversions) in winter.
Screen Name Redacted 7/14/2023 03:27 PM	Dryer, hotter summers with less precipitation
Screen Name Redacted 7/14/2023 04:02 PM	Cowichan RIver levels lower in spring - sooner each year. Peak flood events in November/December seem more intense
Screen Name Redacted 7/14/2023 04:19 PM	Warmer, heavier snow falls
Screen Name Redacted 7/14/2023 04:50 PM	Extreme heat events. Heat earlier in the calendar year (May vs July) Significant Flooding events on a more regular basis. Drought (in spite of living in a rain forest).
Screen Name Redacted 7/14/2023 06:00 PM	Speaking from someone who has been on the planet for [redacted] years...None. Climate, while changing in the miniscule, I've seen no changes. Weather events continue to happen. I have seen weather events associated with hot weather, cold weather, wet periods, dry periods...and until I see something continue ongoing for 10-30 years I can only relate these as WEATHER EVENTS.
Screen Name Redacted 7/14/2023 06:24 PM	Drought, heat dome.
Screen Name Redacted 7/14/2023 09:31 PM	Much less rain in spring, summer and fall Hotter spring and summer and fall
Screen Name Redacted 7/14/2023 09:43 PM	Flooding, extreme heat.
Screen Name Redacted 7/15/2023 06:55 AM	Yes, more wind, heat, rain in volumous showers vs rain showers of the past.
Screen Name Redacted	The weater is getting more extreme. Drought period lasts longer. And

7/15/2023 10:03 AM	winter rains are less in volume
Screen Name Redacted 7/15/2023 01:05 PM	None
Screen Name Redacted 7/15/2023 01:52 PM	flooding happening more frequently. Drought conditions for farmers
Screen Name Redacted 7/15/2023 03:48 PM	Drier summers
Screen Name Redacted 7/15/2023 04:30 PM	I, like the majority of residents, have no record of climate statistics so can not reliably make an observation. Your question gives no time frame.
Screen Name Redacted 7/15/2023 06:52 PM	Hotter and drier
Screen Name Redacted 7/16/2023 12:28 AM	Hot and dry longer in summer. Lower water levels
Screen Name Redacted 7/16/2023 12:48 PM	longer droughts, higher temperatures in spring
Screen Name Redacted 7/16/2023 07:46 PM	Warming climate, floods, extreme drought, fire risk
Screen Name Redacted 7/17/2023 08:59 AM	Precipitation is less reliable and often either a lot more rain or much less precipitation falls over a short time. Extreme drought at all times of the year. Sun is more intesnse and heat is higher and longer periods of extreme heat.
Screen Name Redacted 7/17/2023 11:29 AM	Longer periods without rain, more heat in summer, damage to trees from drought and heat, stronger winter storms.
Screen Name Redacted 7/17/2023 01:02 PM	I haven't noticed any changes really, I've lived here for over [redacted] years. For the most part, aside from seasonal changes, it's been pretty straightforward. I think it's important to remember the rise of social media and internet, we have a lot more access to information so while it may seem like things are changing, it's most likely people just have access to more information.

Screen Name Redacted 7/17/2023 08:57 PM	Heat dome last year. Driest May on record.
Screen Name Redacted 7/17/2023 10:30 PM	way less rain (if any) in July stronger storms higher summer temperatures at least one extreme event (heat dome, floods, windstorm, etc) every year, sometimes 2
Screen Name Redacted 7/17/2023 11:20 PM	Drought, heat dome, flooding, crop failures, major weather events, forest fires, smoke every summer now, poor air quality, more snow, plants and garden not tolerating the extreme weather, more pests, heat stressed animals, more wildlife in developed areas as their food and water sources impacted, changing migration patterns, algae blooms from heat or water contamination from agricultural run-off, plant and animals disease, red tide, traditional and local food sources are too contaminated to eat, overfishing/ overharvesting so local fauna may not recover, massive die-off of heat life after ocean too hot after heat dome,
Screen Name Redacted 7/18/2023 08:22 AM	No rain during the summer months. Extreme heat events, wildfires, landslides, flooding, flash flooding, extreme winds. Forests being destroyed rapidly.
Screen Name Redacted 7/18/2023 10:59 AM	Receive a fraction of normal precipitation Temperatures about 5°C above climate normals on average. Trees and plants dying off from drought and heat
Screen Name Redacted 7/18/2023 03:16 PM	Longer heat periods, Longer times no rain. Windier
Screen Name Redacted 7/18/2023 03:20 PM	Lower river flows, occasionally extreme heat, last summer many hot days in a row
Screen Name Redacted 7/18/2023 03:23 PM	There are longer periods of time without and with Rain ,less moderate wheather over the last 3 years
Screen Name Redacted 7/18/2023 03:32 PM	Less water in local rivers, dryer and hotter as each year passes - smoke and dust

Screen Name Redacted 7/18/2023 03:31 PM	The summers have been hotter, water shortages happen earlier in the year, more extreme weather events, more wildfires each season
Screen Name Redacted 7/18/2023 07:58 PM	I have lived in the Cowichan Valley for [redacted] years. In this time I have seen water levels drop significantly over this period. In the last 10 years especially. There's been less snow falls in the Winter and less rain in the summer to fall months. As well as fewer Salmon in the rivers.
Screen Name Redacted 7/18/2023 09:27 PM	Hotter drier summers. More intense rain events in winter. Unpredictable spring weather
Screen Name Redacted 7/19/2023 01:38 AM	Hotter and drier
Screen Name Redacted 7/19/2023 07:47 AM	Late winter
Screen Name Redacted 7/19/2023 09:04 AM	Summers are hotter, drier, and/or longer. Droughts are longer and more frequent. Rain events are extreme more frequently.
Screen Name Redacted 7/19/2023 09:55 AM	High winds, more power failures, heavier rain when it rains, flooding, hotter weather in the summer, appears to be a shift when the seasons start by a couple of weeks.
Screen Name Redacted 7/19/2023 12:22 PM	Drought conditions, salmon stocks reduced, less rain, less snowpack, more forest fires.
Screen Name Redacted 7/19/2023 12:39 PM	The loss of pollinators, loss of bats, of swallow. Far least rain in summer and a longer period of heat in the summer less snow in winter. More extreme events
Screen Name Redacted 7/19/2023 01:53 PM	Hotter and Dryer conditions. No rain for long periods of time.
Screen Name Redacted 7/19/2023 03:02 PM	Rainfall is lower throughout the year. Temperature increased earlier in the year. Wildfires have increased substantially.
Screen Name Redacted	Hot spells, less rainfall especially in summer. Occasional extreme

7/19/2023 03:26 PM	precipitation events.
Screen Name Redacted 7/19/2023 03:42 PM	I've lived in the Cowichan Valley my entire life ([redacted] years). The weather is noticeably hotter. The sun feels scorching hot on the skin. The air is also hotter with less cool-down time in the evenings. I've noticed smokier summers. I think there has been less rain, but I'm not totally sure. It feels as though there is more snow as well.
Screen Name Redacted 7/19/2023 06:00 PM	Severe areas with drought, dying trees, hot increasing temperatures, colder icy snow conditions in the winter, a lot of clearcut areas, developments don't work around existing trees, animals moving elsewhere, into town due to changes (lack of greenspaces), increased wildfire risk.
Screen Name Redacted 7/19/2023 06:32 PM	Dying cedar and now the Coastal Douglas fir trees. Summer after summer of droughts and a heat dome have been very hard on trees. This leads to soil instability without living tree roots and that makes the floods worse.
Screen Name Redacted 7/20/2023 05:04 AM	nothing, the weather is normal.
Screen Name Redacted 7/20/2023 06:14 AM	I see alot of chemicals being spray in the air above us. These criminals need to be punished.
Screen Name Redacted 7/20/2023 09:07 AM	more extremes (flood, heat, drought)
Screen Name Redacted 7/20/2023 11:35 AM	NONE - same patterns as last [redacted] years, sometimes heat waves, sometimes cold snaps, sometimes drought, sometimes flood: NORMAL
Screen Name Redacted 7/20/2023 12:12 PM	I have fone back to the earliest weather reporting in the 30s and found it was much hotter then than now
Screen Name Redacted 7/20/2023 12:28 PM	More milky cloudy skies from planes spraying climate changing chemical trails that disperse into clouds. More trees dying (possibly from inability to absorb moisture due to chemical pollution from above trails that affects all water sources too.)

Screen Name Redacted 7/20/2023 12:38 PM	More water restrictions- high heat
Screen Name Redacted 7/20/2023 01:14 PM	None.. the conditions have always fluctuated from one extreme to the other over the years
Screen Name Redacted 7/20/2023 01:15 PM	Climate changes. Summer is hot. Fall and winter are wet. There have been obvious mismanagement issues which are making existing problems worse. Climate change is being used as the rationale for these issues, but there are many ways situations were managed differently in the past that prevented the worst of many "disasters" that we are seeing now. The rivers used to be dredged, forest above rivers (ie Chemainus River) was not logged so much of the runoff was absorbed etc. The problems we are seeing are due to a colossal failure of management, and the excuse given for these failures is climate change.
Screen Name Redacted 7/20/2023 02:26 PM	extreme weather, much warmer water in the ocean, lakes and rivers, more heat and fires
Screen Name Redacted 7/20/2023 03:31 PM	Increased temperature and drought in summer months
Screen Name Redacted 7/20/2023 03:37 PM	No changes. Whatever weather we're having now, we've experienced before. Geological Earth History reveals what is required to be known. First Nations oral history confirms this knowledge.
Screen Name Redacted 7/20/2023 04:56 PM	Winds have gotten stronger. Summers hotter and drier
Screen Name Redacted 7/20/2023 10:54 PM	Increased heat decreased rainfall
Screen Name Redacted 7/21/2023 05:39 AM	Extreme heat, drought
Screen Name Redacted 7/21/2023 05:41 AM	hot and dry summers are longer and more extreme, start earlier, last longer and are much dryer
Screen Name Redacted	Harsher winters and warmer summers

7/21/2023 05:42 AM	
Screen Name Redacted 7/21/2023 08:43 AM	Extremely dry summers, heavy rain in the winter
Screen Name Redacted 7/21/2023 09:53 PM	Less water and more heat for longer periods of time during spring, summer and fall. More snow in the winter
Screen Name Redacted 7/22/2023 08:10 AM	Only been here [redacted] years. Observing extreme heat and rainfall events, with severe drought in summer.
Screen Name Redacted 7/22/2023 07:23 PM	Hotter, dryer summers.. Deeper snow. Weather more unpredictable overall.
Screen Name Redacted 7/22/2023 09:45 PM	Warmer days during the summer, and infrequent rain during the same period. However, consistent and expected with longer term global cycles.
Screen Name Redacted 7/22/2023 10:41 PM	Dryer, hotter summers. More windy.
Screen Name Redacted 7/23/2023 08:20 AM	Extreme heat, water shortage, Ravi no bribers followed by a trickle, no rain, no spring, no fall, colder winters, hotter summers, indigenous plants dying right en masse
Screen Name Redacted 7/23/2023 03:11 PM	Changes to weather patterns. Early droughts . Floods. Long periods without rain
Screen Name Redacted 7/24/2023 08:00 AM	More drought like conditions
Screen Name Redacted 7/24/2023 11:13 AM	Heat dome, Atmospheric river, drought conditions.
Screen Name Redacted 7/24/2023 05:16 PM	It seems as if summers are hotter, sunnier and the amount of rain has fallen.
Screen Name Redacted 7/25/2023 10:12 AM	Drought

Screen Name Redacted 7/25/2023 12:17 PM	River is getting lower each low, longer periods without rain
Screen Name Redacted 7/25/2023 01:33 PM	The only change is verbiage coming from climate Canada. Atmospheric river is heavy rain. Heat dome is a period of above average heat. Not a crisis.
Screen Name Redacted 7/25/2023 03:04 PM	Hotter, drier summers.
Screen Name Redacted 7/25/2023 06:00 PM	An abundance of chem trails.
Screen Name Redacted 7/25/2023 06:13 PM	Increased storm and drought frequency, higher temperatures
Screen Name Redacted 7/25/2023 07:26 PM	Lack of rain throughout the seasons , dying trees in our forests, loss of birds and insects, streams dry up earlier, the Cowichan River and Koksilah Rivers as well and earlier each year
Screen Name Redacted 7/25/2023 10:36 PM	More frequent extremes of wet/dry and hot/cold
Screen Name Redacted 7/26/2023 02:54 PM	Prolonged drought, extreme heat, extreme rain storms, flooding
Screen Name Redacted 7/27/2023 08:51 AM	Changes in storm activity, extreme heat in air, freshwater and ocean, prolonged dry periods.
Screen Name Redacted 7/27/2023 01:20 PM	Prolonged drought, concentrated periods of precipitation, flooding, Conifer stress (cedars, Firs, Balsam etc)
Screen Name Redacted 7/27/2023 02:30 PM	heat, excessive rain
Screen Name Redacted 7/27/2023 02:54 PM	None
Screen Name Redacted	Lack of precipitation

7/27/2023 03:03 PM	
Screen Name Redacted 7/27/2023 03:17 PM	Changes to weather, wild fires
Screen Name Redacted 7/27/2023 03:29 PM	The climate is always changing and has been changing before humans were even here. My experience of it is irrelevant…
Screen Name Redacted 7/27/2023 03:28 PM	Dry season starts earlier and ends later. Hotter summers, larger storm events.
Screen Name Redacted 7/27/2023 03:47 PM	Heavier snow falls and longer lasting cold spells during the winter.
Screen Name Redacted 7/27/2023 03:56 PM	hotter summers and more rain in winter
Screen Name Redacted 7/27/2023 04:05 PM	Hotter and drier summers. More extreme winds and rain events in winter. More snow in winter.
Screen Name Redacted 7/27/2023 04:31 PM	Very hard to answer, because there are natural cycles of weather and climate as well. But rainy summers seems infrequent in recent years.
Screen Name Redacted 7/27/2023 04:46 PM	More heat -- ie heat dome, but also more days when it is near 30 C Less water -- my garden used to grow things like rhododendrons easily, now they are having problems with insufficient water.
Screen Name Redacted 7/27/2023 06:36 PM	People react more to weather.
Screen Name Redacted 7/27/2023 06:44 PM	Extremes in both hot/dry & cold/wet weather patterns. Low river levels.
Screen Name Redacted 7/27/2023 06:53 PM	I don't think I have lived here long enough to comment on changed over time.
Screen Name Redacted 7/27/2023 07:08 PM	Less rainfall, lower snowpacks, heat dome

Screen Name Redacted 7/27/2023 07:22 PM	More snow, more rain, cooler summer evenings
Screen Name Redacted 7/27/2023 08:16 PM	Less rain and hotter days.
Screen Name Redacted 7/27/2023 08:48 PM	I witnessed the flooding and rain of the atmospheric river while living in [redacted], where my [redacted]'s house was flooded, the septic system backed up into the house and I was not able to flush the toilet for 2 months. The last 2 summers have been very hot and not at all normal. This fish being unable to swim upstream to spawn, the drying up of the most beautiful river on the island and the stress on people who have not been able to adapt, has all taken its toll.
Screen Name Redacted 7/27/2023 09:24 PM	I have not seen any changes or extreme events.
Screen Name Redacted 7/28/2023 05:57 AM	more windy, less rain, higher seasonal temperatures
Screen Name Redacted 7/28/2023 06:45 AM	Nothing
Screen Name Redacted 7/28/2023 07:00 AM	More extreme rain events / flooding.
Screen Name Redacted 7/28/2023 08:40 AM	Defintiely more heat, and less rainfall through the summer. Weather events also appear more extreme.
Screen Name Redacted 7/28/2023 08:47 AM	Hotter summers Drier summers Wetter winters More fires
Screen Name Redacted 7/28/2023 12:36 PM	Fewer snow days in the winter. Drier summers. Winters are warmer and drier. Fewer wasps in the summer. Fewer mosquitos in the last five years.
Screen Name Redacted 7/28/2023 01:41 PM	Longer droughts, higher temperatures at the water in the summer, more snow in winter
Screen Name Redacted 7/28/2023 02:12 PM	Drought and water restrictions are happening sooner in the spring/summer months. We've had overall warmer and dryer

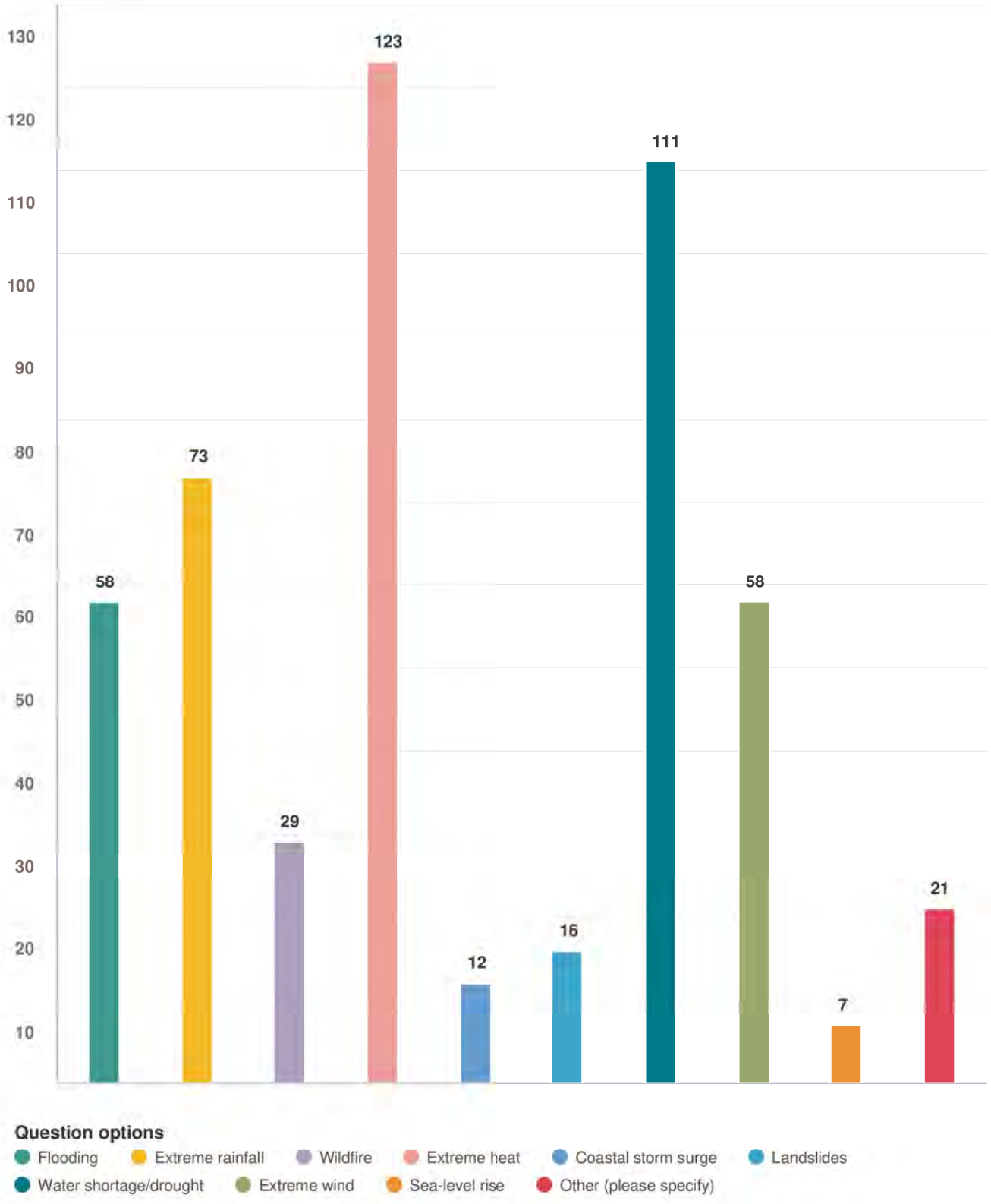
	summers. More fires in summer and flooding in fall/winter.
Screen Name Redacted 7/28/2023 02:38 PM	We have experienced extreme heat in the summertime, a marked decrease in total annual rainfall, summer drought.
Screen Name Redacted 7/28/2023 07:21 PM	Over the last 6 years the level of the Cowichan River, Koksila and Chemainus all have seen severe declines during the summer.
Screen Name Redacted 7/29/2023 07:34 AM	So much hotter and drier and for much longer, erosion, fish are dying, the cedar are not healthy (dried out), fires, smoke, flooding, landslides, drought
Screen Name Redacted 7/29/2023 09:04 AM	Increasing summer extreme heat & longer drought periods, more intense rainfall periods, stronger windstorm.
Screen Name Redacted 7/29/2023 10:06 AM	More severe heat, flooding and bigger dumps of snow, Lowe water levels in the Cowichan R.
Screen Name Redacted 7/29/2023 02:42 PM	Much hotter, dryer summers lasting longer into the fall. Precipitation pattern more like a "rainy season"
Screen Name Redacted 7/29/2023 07:40 PM	Heat dome Atmospheric rivers with +++ rainfall/flooding Drought
Screen Name Redacted 7/30/2023 04:00 PM	Increasing heat and increasing intensity of storms
Screen Name Redacted 7/30/2023 04:23 PM	1: The heat dome; 2: The extended warm temperatures into fall 2022.
Screen Name Redacted 7/30/2023 05:42 PM	Warmer temperatures overall, less and less snow and rainfall
Screen Name Redacted 7/31/2023 06:58 AM	Rainy season ends sooner, and periods of high heat are more frequent.
Screen Name Redacted 7/31/2023 10:35 AM	less rain in summer, and hotter More rain at once.

Screen Name Redacted 7/31/2023 01:41 PM	not much
Screen Name Redacted 8/01/2023 08:51 AM	I have not experienced a climate change in North Cowichan
Screen Name Redacted 8/01/2023 03:58 PM	Higher Consecutive Summer Temperatures
Screen Name Redacted 8/03/2023 12:01 PM	longer drier summers
Screen Name Redacted 8/03/2023 01:32 PM	Summers are longer, hotter, and dryer. Native species are being stressed, and even those that are adapted to extended drought periods are senescing prematurely or have died.
Screen Name Redacted 8/04/2023 08:20 AM	Less rain in the summer. Lower river levels. Fir trees dying in favour of dry tolerant arbutus. Warmer summers.
Screen Name Redacted 8/04/2023 10:04 AM	wind is stronger now than the breezes we enjoyed a few years ago. wind is more frequent now. depending on the year, our summer weather (hot & dry) is now coming earlier, or sometimes later, than a few years ago. Rainfall is less frequent in some years, leading to low river levels, decreased flow of the water.
Screen Name Redacted 8/06/2023 08:18 AM	Heavier rains in winter, hotter drier summers
Screen Name Redacted 8/06/2023 11:54 AM	drier summers
Screen Name Redacted 8/06/2023 12:13 PM	More extreme weather events, earlier water restrictions
Screen Name Redacted 8/06/2023 12:28 PM	The La Nina summers are drier and warmer than average.
Screen Name Redacted 8/06/2023 12:46 PM	Lack of rain and very high temperatures, everything is so dry, the drought conditions are very concerning.

Screen Name Redacted 8/06/2023 12:39 PM	Hotter, summers, with longer midsummer dry period. More severe Fall rain events.
Screen Name Redacted 8/06/2023 01:24 PM	less rain resulting in dryer conditions, warmer temperatures in summer
Screen Name Redacted 8/06/2023 01:53 PM	Warmer summers, windier transition seasons (fall and spring). Drought in summer. Flooding events in winter.
Screen Name Redacted 8/06/2023 05:28 PM	more periods of extreme heat in the summer
Screen Name Redacted 8/06/2023 09:27 PM	Extensive drought
Screen Name Redacted 8/07/2023 02:51 PM	Longer colder winters. Aside from one heat dome the summer heat remains much the same. This summer has been an unusually dry and sunny. Need info about long-term data to know if this prolonged lack of rain is unusual.
Screen Name Redacted 8/07/2023 04:55 PM	excess heat, reduction in precip, and in 2023 much more wind or breeze drying out the plants & soil
Screen Name Redacted 8/07/2023 05:13 PM	Poor air quality due to smoke also Coastal Environmental exhaust releases Trees falling down in the summer months
Screen Name Redacted 8/07/2023 08:33 PM	driers summers short intense rain events more wind events, more storm surge

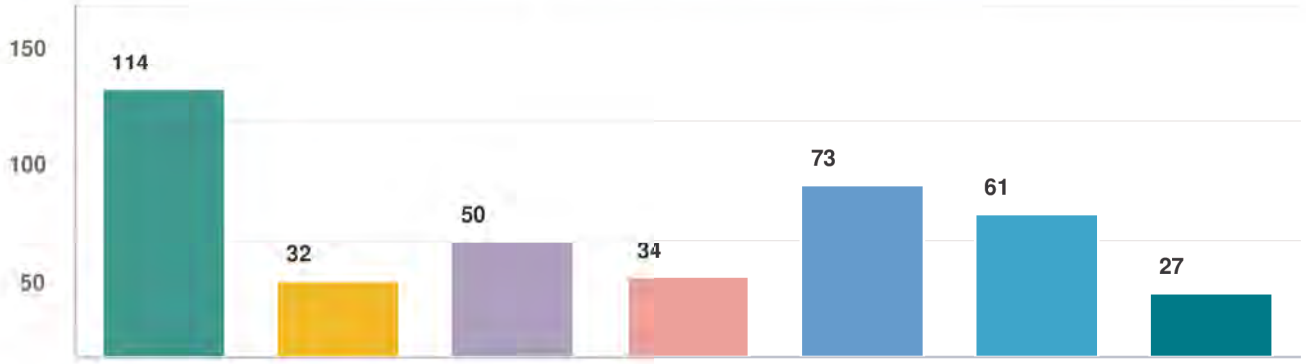
Mandatory Question (156 response(s))
Question type: Essay Question

Q2 | Which of the following climate hazards have you experienced in North Cowichan? (You can select multiple answers)



Mandatory Question (156 response(s))
Question type: Checkbox Question

Q3 What impacts from climate events are you most concerned about? (Choose your top 3)

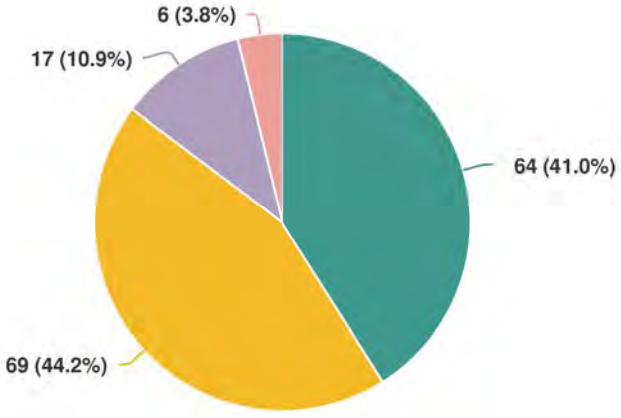


Question options

- Damage to the natural environment
- Inability to enjoy the outdoors and community amenities
- Physical/mental health impacts
- Financial impacts
- Temporary loss of municipal services (e.g. drinking water, transportation, power outages , etc.)
- Impacts to vulnerable populations
- Other (please specify)

Mandatory Question (156 response(s))
Question type: Checkbox Question

Q4 Have you or someone you know experienced financial losses or property damages because of a climate hazard or climate event?

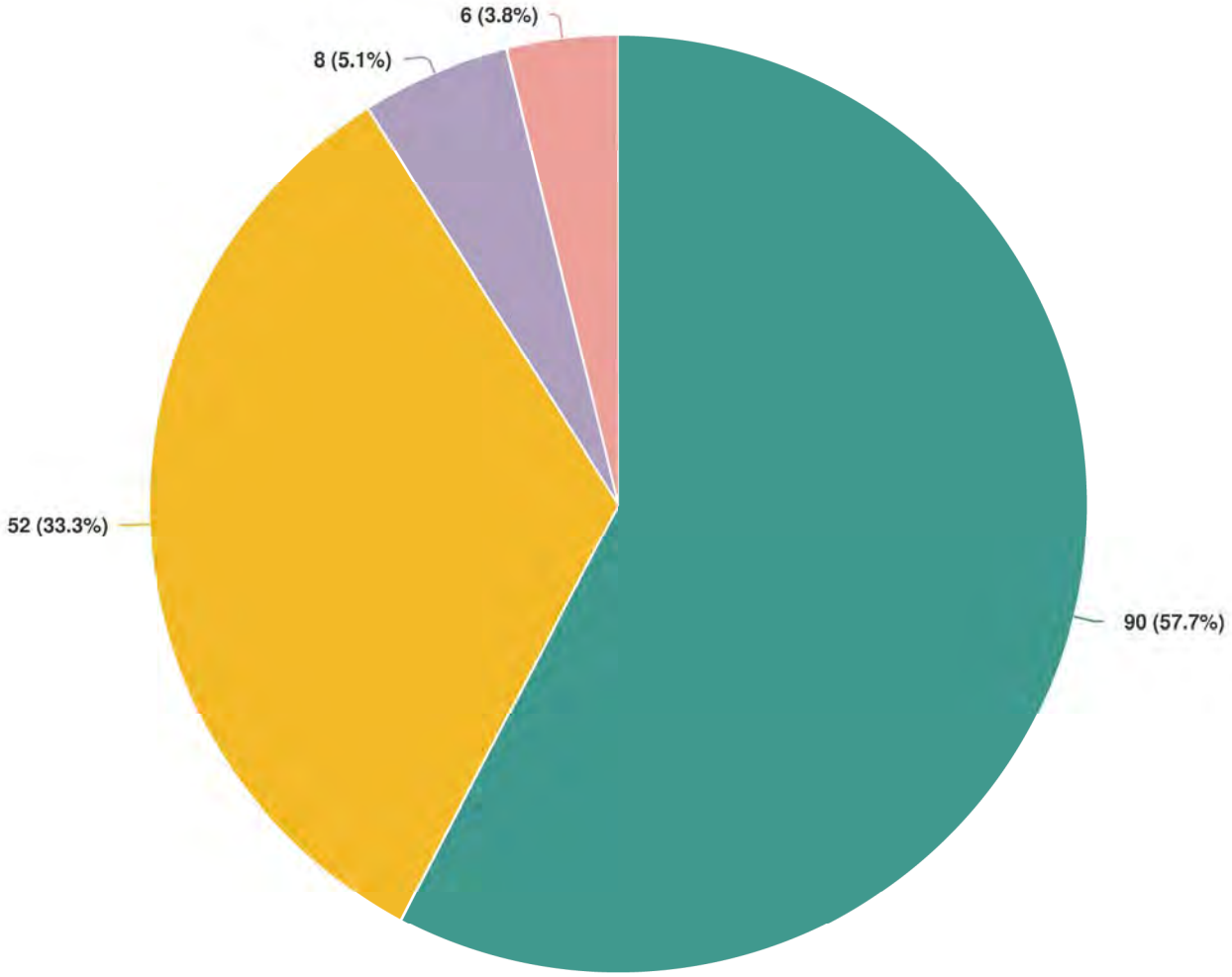


Question options

- Yes
- No
- Unsure
- Other (please specify)

Mandatory Question (156 response(s))
Question type: Dropdown Question

Q5 Have you or someone you know experienced negative health impacts (including physical and mental health) because of a climate hazard or extreme weather event?



Mandatory Question (156 response(s))
Question type: Dropdown Question

Q6 What impacts to municipal services have you observed or experienced in the community related to climate (e.g. flooding on roads, water restrictions, etc.)?

Screen Name Redacted 7/13/2023 01:13 PM	Water restrictions
Screen Name Redacted 7/13/2023 12:50 PM	flooding, water restrictions, early fire bans, no access to forest roads, street population suffering heat stroke
Screen Name Redacted 7/27/2023 04:19 PM	FLOODING
Screen Name Redacted 7/13/2023 08:11 PM	No unusual impacts in my area.
Screen Name Redacted 7/13/2023 08:55 PM	Much earlier and more severe water restrictions than expected; flooding on portions of road frequently.
Screen Name Redacted 7/13/2023 10:05 PM	Flooded roads.
Screen Name Redacted 7/14/2023 06:44 AM	water restrictions, washing out of highway, bridges, roads due to flood or landslump as a result of rain volumme
Screen Name Redacted 7/14/2023 07:29 AM	The floods of winter 2021-2022 cut me off from home for two days. Couldn't get here from [redacted].
Screen Name Redacted 7/14/2023 08:55 AM	Boil water advisory, flooding on roads, water restrictions
Screen Name Redacted 7/14/2023 12:14 PM	road closures from flooding + fires, evacuation, power outages, water restrictions
Screen Name Redacted 7/14/2023 12:32 PM	flooding on roads, water restrictions
Screen Name Redacted 7/14/2023 03:23 PM	Increasing levels of water restrictions

Screen Name Redacted 7/14/2023 03:27 PM	Water restrictions
Screen Name Redacted 7/14/2023 04:02 PM	landslides combined with high water closing roads - Allenby road long term closure, highway 1 closed at Chemainus river
Screen Name Redacted 7/14/2023 04:19 PM	Road diversions and road closures, water restrictions
Screen Name Redacted 7/14/2023 04:50 PM	Flooding. Road closures. Water restrictions. Camp fire bans. Road closures due to fire.
Screen Name Redacted 7/14/2023 06:00 PM	None out of the "normal". We have had over the decades a random few rain on snow weather events that have resulted in flooding of low-lying flood plain areas where quite frankly we should never have been building or allowing building in the first place.
Screen Name Redacted 7/14/2023 06:24 PM	water restrictions, flooding on roads, power outages
Screen Name Redacted 7/14/2023 09:31 PM	Unable to get to my house due to trees and power lines down Running out of water (well) Ppl displaced due to flooding
Screen Name Redacted 7/14/2023 09:43 PM	Flooding on roads, water restrictions, power outages
Screen Name Redacted 7/15/2023 06:55 AM	Tsussie Rd. Reserve, flooding, housing being built in flood zone. Residents are still out of their homes, years later. Cat 5 earlier each yr. Lack of public buyin, ie, installing lawns, instead of Rain water capture systems.
Screen Name Redacted 7/15/2023 10:03 AM	Parks are not as inviting as in the past because of drought
Screen Name Redacted 7/15/2023 01:05 PM	None
Screen Name Redacted 7/15/2023 01:52 PM	flooding-Municipal services lacking in the information department. When there is a flood locations of evacuation areas need to be better

	informed as to when to evacuate. Or also help those with sandbagging that are not just on cowichan tribes land. Drought- the heat is drying up farmers crops, lack of irrigation and water to farmers is huge impact on our food supply. Many animals in our area that rely on grass forages for survival. We are actually making situation worse by shutting farmers irrigation water down. Farmers are then required to truck feed in from off island to make up for the shortages, increasing carbon footprint.
Screen Name Redacted 7/15/2023 03:48 PM	We hit stage 3 watering restrictions in June this year.
Screen Name Redacted 7/15/2023 04:30 PM	BC Hydro service interruptions
Screen Name Redacted 7/15/2023 06:52 PM	Trees falling and taking out of power lines
Screen Name Redacted 7/16/2023 12:28 AM	Extreme water restrictions. Road closures due to flooding
Screen Name Redacted 7/16/2023 12:48 PM	long-term water restrictions, flooded roads, lack of shaded areas
Screen Name Redacted 7/16/2023 07:46 PM	Witness flooding of Cowichan and Chemainus Rivers, with impacts to First Nations and other communities and businesses.
Screen Name Redacted 7/17/2023 08:59 AM	Flooding, trees down, extreme drought, wind damage.
Screen Name Redacted 7/17/2023 11:29 AM	Flooding on roads, inability to garden as before because of drought
Screen Name Redacted 7/17/2023 01:02 PM	We have had cycles of flooding and weather events on either side of the hot/cold or dry/wet. However I recall these happening as long as I've lived here, there have bene no changes other than our infrastructure changing to work around them.
Screen Name Redacted 7/17/2023 08:57 PM	None. We've had water restrictions for a while.

Screen Name Redacted 7/17/2023 10:30 PM	flooded highway, summer water restrictions
Screen Name Redacted 7/17/2023 11:20 PM	Water restrictions, road flooding blocking off access from the rest of the island, so much snow that it feels unsafe to drive, major winter storms with downed trees blocking the roads
Screen Name Redacted 7/18/2023 08:22 AM	People have lost their homes to flooding and/or experienced year after year flooding.
Screen Name Redacted 7/18/2023 10:59 AM	Road closures
Screen Name Redacted 7/18/2023 03:16 PM	More flooding in winter, earlier water restrictions in summer.
Screen Name Redacted 7/18/2023 03:20 PM	dirty looking tap water after a fire last summer.
Screen Name Redacted 7/18/2023 03:23 PM	Flooding and water restrictions
Screen Name Redacted 7/18/2023 03:32 PM	lack of adequate shelters and cooling centers for the unhoused and for older adults - unsure of the full impact in rural communities between Ladysmith and Malahat
Screen Name Redacted 7/18/2023 03:31 PM	water restriction, damage due to wildfires, closed roads (for rock scaling and removal of damaged trees), flooding wiping out roads and bridges
Screen Name Redacted 7/18/2023 07:58 PM	Flooding, Landslides. Poor snow removal.
Screen Name Redacted 7/18/2023 09:27 PM	Unsure
Screen Name Redacted 7/19/2023 01:38 AM	Flooding, water restrictions, power outages
Screen Name Redacted	Floods, snow buildup/ ice on roads

7/19/2023 07:47 AM	
Screen Name Redacted 7/19/2023 09:04 AM	If only considering NC, fire restrictions are longer, waste collection earlier in the day. Allenby is closed (not NC I don't think).
Screen Name Redacted 7/19/2023 09:55 AM	Road closures due to high winds and trees falling across the road, and flooding on local roads
Screen Name Redacted 7/19/2023 12:22 PM	Flooding, water restrictions.
Screen Name Redacted 7/19/2023 12:39 PM	Water restrictions Flooding of trails Flooding of roads Landslides
Screen Name Redacted 7/19/2023 01:53 PM	Lost crops of berries and fruit on our farm because of the heat
Screen Name Redacted 7/19/2023 03:02 PM	Earlier water restrictions due to drought situation.
Screen Name Redacted 7/19/2023 03:26 PM	Water restrictions. Flooding and road closures near Chemainus and Cowichan rivers.
Screen Name Redacted 7/19/2023 03:42 PM	Severe flooding on roadways, infrastructure failure (Allenby road, the Cowichan Valley trail), frequent water restrictions every summer.
Screen Name Redacted 7/19/2023 06:00 PM	Definitely flooded roadways and highways, a lot of water restrictions, strained winter ploughing/de-icing (not frequent enough), poor drainage on concrete/parkinglots/roads, alerts for wildfires and flooding, definitely hydro loss although that is more provincial service.
Screen Name Redacted 7/19/2023 06:32 PM	flooding and dying trees. Dying trees equals less shade and more heat.
Screen Name Redacted 7/20/2023 05:04 AM	road closure
Screen Name Redacted 7/20/2023 06:14 AM	Massive increase in cost of living caused by communist politicians.

Screen Name Redacted 7/20/2023 09:07 AM	water restrictions, road closure
Screen Name Redacted 7/20/2023 11:35 AM	water restrictions, especially for food production. First Nations often wastes water by watering the road in front of their huge green lawn at admin bldgs. on Allenby - this could be used for farmers.
Screen Name Redacted 7/20/2023 12:12 PM	I've noticed more flooding due to not dredging waterways as was done in the past
Screen Name Redacted 7/20/2023 12:28 PM	we appear to be allowing many more buildings which require water and sewage that have not been updated and will not be able to meet demands? The increased traffic leads to more pollution and frustration with road traffic jams blocking drives and side roads...
Screen Name Redacted 7/20/2023 12:38 PM	I can't grow food in my backyard due to water restrictions.
Screen Name Redacted 7/20/2023 01:14 PM	Water restrictions impact gardens and our ability to grow food
Screen Name Redacted 7/20/2023 01:15 PM	Impacts "OF" incompetent municipal services would be more correct. The climate always changes.
Screen Name Redacted 7/20/2023 02:26 PM	flooding, water restrictions, road washouts
Screen Name Redacted 7/20/2023 03:31 PM	Water restrictions, Flooding
Screen Name Redacted 7/20/2023 03:37 PM	We await the repair of the [redacted] and other trails access. The water restrictions should equally be made upon industry including the [redacted] Mill, not disproportionately borne by private people in their homes watering their vegetables.
Screen Name Redacted 7/20/2023 04:56 PM	Long duration power outages
Screen Name Redacted	Personally none but have seen the destruction caused by flooding to

7/20/2023 10:54 PM	others
Screen Name Redacted 7/21/2023 05:39 AM	Water shortages
Screen Name Redacted 7/21/2023 05:41 AM	water restrictions impacting food gardening. Flooding impacting family members home.
Screen Name Redacted 7/21/2023 05:42 AM	Pot holes near traffic lights at the 7-11
Screen Name Redacted 7/21/2023 08:43 AM	Road flooding
Screen Name Redacted 7/21/2023 09:53 PM	Water restrictions, power outages, flooding.
Screen Name Redacted 7/22/2023 08:10 AM	Water use restrictions stifle hobby gardening and enjoyment of our own property.
Screen Name Redacted 7/22/2023 07:23 PM	Road flooding, water restrictions.
Screen Name Redacted 7/22/2023 09:45 PM	Flooding here and there, though has happened for many many years in some locations.
Screen Name Redacted 7/22/2023 10:41 PM	I live on the highway right where it floods and have had to host people who were stranded in our driveway because they either floated into it or could not progress further.
Screen Name Redacted 7/23/2023 08:20 AM	There are too many people here to sustain. There isn't enough water for all the development. Cutting down all the trees is ruining how this island functions.
Screen Name Redacted 7/23/2023 03:11 PM	Power outages for 4 days. Flooding at Crofton rd . Water restrictions. There's only 2 ways out of crofton.. one road floods every year and the other is prone to down trees...scary
Screen Name Redacted	Crofton has been completely cut off due to flooding of roads

7/24/2023 08:00 AM	combined with falling trees and accidents due to weather. This was psychologically terrifying, and thankfully lasted a very short time, but definitely makes you think about the future.
Screen Name Redacted 7/24/2023 11:13 AM	road washouts, flooding
Screen Name Redacted 7/24/2023 05:16 PM	Road closures due to flooding and power outages due to weather-related events
Screen Name Redacted 7/25/2023 10:12 AM	Water shortage
Screen Name Redacted 7/25/2023 12:17 PM	Longer times without power, flooding events, landslides resulting in road closure which is still not fixed and has resulted in major congestion in and around town... fix Alenby
Screen Name Redacted 7/25/2023 01:33 PM	There have always been floods and fires. We are pretty resilient and deal with it without your heavy handed desire to control things.
Screen Name Redacted 7/25/2023 03:04 PM	Flooding a few years ago, slides on Allenby road
Screen Name Redacted 7/25/2023 06:00 PM	Nothing
Screen Name Redacted 7/25/2023 06:13 PM	Flooding on roads
Screen Name Redacted 7/25/2023 07:26 PM	Early water restrictions, flooding on my commute to Ladysmith
Screen Name Redacted 7/25/2023 10:36 PM	Food on roads, Damage to parks/facilities, water restrictions
Screen Name Redacted 7/26/2023 02:54 PM	Landslides, Allenby road closure, mass flooding, water restrictions, power outages
Screen Name Redacted 7/27/2023 08:51 AM	Road flooding, damage to roads and drainage structures, damage from heavy snowfall

Screen Name Redacted 7/27/2023 01:20 PM	road flooding, water restrictions, road washouts, trail washouts
Screen Name Redacted 7/27/2023 02:30 PM	none
Screen Name Redacted 7/27/2023 02:54 PM	More taxes
Screen Name Redacted 7/27/2023 03:03 PM	Water restrictions Habitat loss due to development mismanagement
Screen Name Redacted 7/27/2023 03:17 PM	Flooding on roads, water restrictions,fire& smoke
Screen Name Redacted 7/27/2023 03:29 PM	We have lost hydro for several days in a row.
Screen Name Redacted 7/27/2023 03:28 PM	Road flooding and washouts. Loss of power/ damage to power and other utilities.
Screen Name Redacted 7/27/2023 03:47 PM	Occasional read blockages due to flooding issues that have been ongoing for decades.
Screen Name Redacted 7/27/2023 03:56 PM	roads flooded
Screen Name Redacted 7/27/2023 04:05 PM	Flooding on roads and properties, water restrictions
Screen Name Redacted 7/27/2023 04:31 PM	None
Screen Name Redacted 7/27/2023 04:46 PM	more water restrictions
Screen Name Redacted 7/27/2023 06:36 PM	People over reacting

Screen Name Redacted 7/27/2023 06:44 PM	Water restrictions. The need for extreme weather shelters.
Screen Name Redacted 7/27/2023 06:53 PM	Flooding on roads, water restrictions, modified curbside collection hours.
Screen Name Redacted 7/27/2023 07:08 PM	Flooding
Screen Name Redacted 7/27/2023 07:22 PM	Annual road flooding
Screen Name Redacted 7/27/2023 08:16 PM	Water restrictions
Screen Name Redacted 7/27/2023 08:48 PM	Total lack of concern or help for vulnerable people affected by flooding, including being forced to leave their homes, and become homeless, as I had to.
Screen Name Redacted 7/27/2023 09:24 PM	Nothing. It is normal to ask citizens to cut back on water during the summer months.
Screen Name Redacted 7/28/2023 05:57 AM	water restrictions
Screen Name Redacted 7/28/2023 06:45 AM	I haven't
Screen Name Redacted 7/28/2023 07:00 AM	Loss of access to town due to road washout.
Screen Name Redacted 7/28/2023 08:40 AM	Flooding on roads, but that has been minimal. Obviously water restrictions but that is also to be expected.
Screen Name Redacted 7/28/2023 08:47 AM	Road closures due to flooding Evacuations due to flooding and fire Water restrictions Power outages
Screen Name Redacted 7/28/2023 12:36 PM	Flood prevention initiatives to prevent roads flooding (Koksilah flats, Lakes Road); more severe water restrictions.

Screen Name Redacted 7/28/2023 01:41 PM	Loss of power to grocery store. Wind event. Flooding closed roads. Inability to get home.
Screen Name Redacted 7/28/2023 02:12 PM	Waste pick up suspended due to heat or snow. Water restrictions. Floods on roads.
Screen Name Redacted 7/28/2023 02:38 PM	Earlier and higher water restrictions. Flooding on roadways. Brush and grass fire increases
Screen Name Redacted 7/28/2023 07:21 PM	Fires in the Maple Bay area and flooding of some roads.
Screen Name Redacted 7/29/2023 07:34 AM	Flooding and landslides on road, water restrictions, power outages, roads and trails washed out,
Screen Name Redacted 7/29/2023 09:04 AM	We narrowly missed being stranded by the Nov 2021 Atmospheric River, driving home an hour before the roads closed. We have observed many power outages around Chemainus because of trees downing above ground power lines.
Screen Name Redacted 7/29/2023 10:06 AM	Flooding and shut down of major roads and highways, paralysis of snow removal strategies (especially in downtown Duncan) - power outages
Screen Name Redacted 7/29/2023 02:42 PM	Flooding on Roads, land slips and wind damage causing road and trail blockages
Screen Name Redacted 7/29/2023 07:40 PM	Destruction of infrastructure (ex transcanada trail)
Screen Name Redacted 7/30/2023 04:00 PM	Flooding, drought and water shortages, power interruptions
Screen Name Redacted 7/30/2023 04:23 PM	Water restrictions Trans Canada trail damage and closure due to flooding.
Screen Name Redacted 7/30/2023 05:42 PM	Services have done pretty well

Screen Name Redacted 7/31/2023 06:58 AM	Malahat wash-out of 2022, and watering restrictions
Screen Name Redacted 7/31/2023 10:35 AM	road closures
Screen Name Redacted 7/31/2023 01:41 PM	water restrictions
Screen Name Redacted 8/01/2023 08:51 AM	Water restrictions but it is normal for people to cut back on water use in the summer months.
Screen Name Redacted 8/01/2023 03:58 PM	Water Restrictions
Screen Name Redacted 8/03/2023 12:01 PM	water restrictions
Screen Name Redacted 8/03/2023 01:32 PM	Early implementation of water restrictions.
Screen Name Redacted 8/04/2023 08:20 AM	Water restrictions, flooding,
Screen Name Redacted 8/04/2023 10:04 AM	water restrictions are being imposed earlier in the year - unsure is due to climate change or greater usage of existing water sources
Screen Name Redacted 8/06/2023 08:18 AM	Lack of water even though more housing is projected. roads flooded/washed out. trails destroyed.
Screen Name Redacted 8/06/2023 11:54 AM	flooding and water restrictions
Screen Name Redacted 8/06/2023 12:13 PM	Flooding on roads and water restrictions
Screen Name Redacted 8/06/2023 12:28 PM	None

Screen Name Redacted 8/06/2023 12:46 PM	Access roads closed due to flooding, examples, [redacted] Market flooding, flooding on entries to Cowichan Bay, and along Tzouhalem, water restrictions occurring earlier each summer. Property damage in some of those situations which are likely to only be greater over time.
Screen Name Redacted 8/06/2023 12:39 PM	Lack of lawn and gardening water in summer. Serious problems getting into town for food etc in the Nov 2022 floods.
Screen Name Redacted 8/06/2023 01:24 PM	as stated above: flooding of Lakes Rd several years ago, water restrictions
Screen Name Redacted 8/06/2023 01:53 PM	Increased water restrictions. Flooding in winter
Screen Name Redacted 8/06/2023 05:28 PM	Hiking trails washed out, bridges inaccessable and damaged, water restrictions
Screen Name Redacted 8/06/2023 09:27 PM	Allenby Road is still shut down, 2 years after the avalanche occurred.
Screen Name Redacted 8/07/2023 02:51 PM	Water restrictions. The district needs to improve the water system infrastructure and find ways to store the masses of rain we get in the winter
Screen Name Redacted 8/07/2023 04:55 PM	Lakes Rd/Trunk Rd flooding. Water restrictions are "normal", but restriction level is unusually high/constraining
Screen Name Redacted 8/07/2023 05:13 PM	Fire service attending to down trees due to power lines down Roads closed due to flooding or trees down
Screen Name Redacted 8/07/2023 08:33 PM	flooding of roads, water restrictions, windfall of trees, power outages, fire, shoreline erosion,

Mandatory Question (156 response(s))
Question type: Essay Question

Q7 | Tell us about any other climate impacts you have observed or experienced.

Screen Name Redacted 7/13/2023 01:13 PM	Outdoor sir warnings, fire bans, flooding of roads
Screen Name Redacted 7/13/2023 12:50 PM	impacts to land and resources, massive impact on fish and wildlife - therefore impact to traditional hunting for Indigenous population. Native plants and animals struggling to cope with heat and cold
Screen Name Redacted 7/27/2023 04:19 PM	MANY
Screen Name Redacted 7/13/2023 08:55 PM	Heat waves - so far just this season it is so much warmer, earlier than usual/expected.
Screen Name Redacted 7/13/2023 10:05 PM	Extreme heat required us to put in air conditioning, drought has caused us to put in cistern, have removed landscaping and mulch next to the house, work to remove broom in public spaces smoke prevents cycling and hiking.
Screen Name Redacted 7/14/2023 12:32 PM	observed impact to forest and rural areas due to drought
Screen Name Redacted 7/14/2023 03:23 PM	The heat dome of 2021
Screen Name Redacted 7/14/2023 03:27 PM	None
Screen Name Redacted 7/14/2023 04:19 PM	Wild fire smoke challenges
Screen Name Redacted 7/14/2023 04:50 PM	Loss of trees to new climate conditions (cedar trees in particular). Loss of wild fish due to climate conditions. Increased dependence on well water for domestic irrigation. Low water levels in local streams/rivers. Changes to farming/gardening practices - what we can grow and when. Reduced ability to enjoy outdoor summer activities due to extreme heat.
Screen Name Redacted 7/14/2023 06:00 PM	Since one can not see climate, but can see weather events, then the question is improperly written. On the first input, I spoke about weather events. There is no record to show that any particular weather event has occurred more frequently or less frequently. One

	needs to monitor weather for decades and 100s of years to determine if there has actually been any movement in climate in the region. And, while we continue to facilitate developments, growing populations which translates to more housing and business then this translates to more physical changes to water flows, water demands, clearing of land and more. These changes to our land result in changes to the environment, therefore it is near impossible over time to compare a particular resultant impact and attribute to what caused the change.
Screen Name Redacted 7/14/2023 06:24 PM	Dead & dying trees
Screen Name Redacted 7/14/2023 09:31 PM	Dying native trees and shrubs Less wildlife, birds, bees and other pollinators Increased weeds/invasive plants Personally, I hate summer and it's becoming unbearable and I'm planning on moving
Screen Name Redacted 7/14/2023 09:43 PM	The impact of drought on trees and other wild plants. The unpredictability of the summer growing season.
Screen Name Redacted 7/15/2023 06:55 AM	Persistant sun and wind, vs clouds or cloudy periods, so things are drying out much faster. Times are changing.
Screen Name Redacted 7/15/2023 10:03 AM	Drought- Hours spent hand watering because of not be able to use an irrigation system we spent thousands to install. Spending a lot of time indoors during extreme heat periods for health reasons.
Screen Name Redacted 7/15/2023 01:05 PM	None
Screen Name Redacted 7/15/2023 01:52 PM	Flooding in the bay, our [redacted] on the property were not properly informed as to when to evacuate, or that they were even needing to prepare to evacuate. Ended up getting trapped in flood water. Need to make provincial government more aware of flooding in our area, as lack of funding for our area when it does occur and is happening more frequently
Screen Name Redacted 7/15/2023 03:48 PM	Winds are getting stronger.
Screen Name Redacted	Price of food. Lower water level's in water ways

7/15/2023 06:52 PM	
Screen Name Redacted 7/16/2023 12:28 AM	Fires
Screen Name Redacted 7/16/2023 12:46 PM	People in my neighborhood often walk to local amenities and are having heat stress on their way- no further developments should happen without shade trees along the sidewalk and roads
Screen Name Redacted 7/16/2023 07:46 PM	Climate impacts are numerous, synergistic, and a long list of impacts are occurring. Examples include: drought, resulting in killing trees, particularly cedars. Issues with salmon survival in rivers, each year is warmer than the next. Fire risk is an increasing worry. Wildfire smoke is a major health and quality of life issue. A long list.
Screen Name Redacted 7/17/2023 08:59 AM	Fires.
Screen Name Redacted 7/17/2023 11:29 AM	Trees are dying along Maple Bay Rd because of drought and extreme heat.
Screen Name Redacted 7/17/2023 01:02 PM	Climate policy has been far more damaging to our community than the actual changing of climate.
Screen Name Redacted 7/17/2023 08:57 PM	I'm concerned that climate change is making it difficult or impossible to grow grapes in CA so wineries will be buying up our vineyards, just for the grapes. This has already happened to [redacted]. Will [redacted] vineyard be next? It's for sale..
Screen Name Redacted 7/17/2023 11:20 PM	Many days without power due to winter storms, record-breaking temperatures seem to happen all the time now, food insecurity, pests
Screen Name Redacted 7/18/2023 08:22 AM	Trees are dying from lack of available water (cedars and hemlocks especially). Not enough water to support the rivers and tributaries. Forests are logged making landslides with rainfall a fact of life.
Screen Name Redacted 7/18/2023 10:59 AM	Plants and trees that are native here are dying off or under stress.

Screen Name Redacted 7/18/2023 03:16 PM	I can't water my garden and I can't grow my own food any more. Makes life much more expensive and much less enjoyable.
Screen Name Redacted 7/18/2023 03:20 PM	Apartments being very hot, and not cooling down at night. Cooling areas need to be open all night.
Screen Name Redacted 7/18/2023 03:23 PM	Unusual timing for wheather changes
Screen Name Redacted 7/18/2023 03:32 PM	no comment
Screen Name Redacted 7/18/2023 03:31 PM	Vulnerable populations are growing in size and the weather extremes are catastrophic for people without stable/permanent housing
Screen Name Redacted 7/18/2023 07:58 PM	Extreme heat
Screen Name Redacted 7/19/2023 09:27 PM	We have been on evacuation notice due to the Maple Mt fire. In 2021 our field experienced significant flooding (mainly due to a backed up municipal culvert) and we lost a portion of our garlic crop. We work outdoors and cannot afford to not work in the summer, so we and our staff work through heat domes and smoke, which takes both a mental and physical toll
Screen Name Redacted 7/19/2023 01:38 AM	deteriorating air quality I never had health problems before but have developed asthma and chronic sinus issues due to poor air quality. Thinking of moving rather than depending on meds to live here.
Screen Name Redacted 7/19/2023 09:04 AM	There have been impacts to our farming operation: lost crops in the heat dome and droughts, reduced hay crop because of drought, reduced field time for farm workers due to heat. Our domestic well went dry last year for the first time. We have had serious creek bank erosion due to flash flooding. Our house flooded in the November 2021 event. Many native trees are dying on our property.
Screen Name Redacted 7/19/2023 09:55 AM	Heat dome and no A/C in condo building. It was 35c in my condo and I am a senior. Thankfully I had the money to purchase a couple of fans and a portable A/C unit.

Screen Name Redacted 7/19/2023 12:22 PM	Dying cedars, higher sea level, unpredictable growing season, heat dome.
Screen Name Redacted 7/19/2023 12:39 PM	The drying of the rivers. The loss of streams in the summer
Screen Name Redacted 7/19/2023 01:53 PM	Trees falling more as the conditions are so dry
Screen Name Redacted 7/19/2023 03:26 PM	Forests are so dry again this year, Fire risk extreme,
Screen Name Redacted 7/19/2023 03:42 PM	Severely hot weather has been a big concern. Not enough cooling stations set up quick enough. No financial supports available to help people access emergency packs. Not enough AC or ventilation in residential buildings. No AC in schools.
Screen Name Redacted 7/19/2023 06:00 PM	Observing no where for animals to go that is shady (or water source), too many trees are cut down -they help cool the earth, and roads. People don't go out as much during winter and summer due to extreme temperatures. Summer heat can be mitigated by tree lined streets (ie Chemainus Rd Maple trees) these areas need to be preserved urgently. Financial impacts of wind (fence , roofing damage), flooding yard areas.
Screen Name Redacted 7/19/2023 06:32 PM	The heat dome was crazy. It was so obvious how important the shade of the trees were as a community asset, especially near streams or water bodies for people and animals to seek shade and cool water to stay safe and cool down.
Screen Name Redacted 7/20/2023 05:04 AM	nothing we can't adapt too. weather is normal
Screen Name Redacted 7/20/2023 06:14 AM	The destruction of Canada as a prosperous western nation is well underway by communists like you.
Screen Name Redacted 7/20/2023 11:35 AM	None out of the ordinary. Just increased taxation, increased gas tax, increased carbon tax, increased Regional tax, etc.
Screen Name Redacted	I experience none , I'm old enough to have been through these Deer

7/20/2023 12:12 PM	factors many times . NC can't even define a "climate emergency " let alone make ANY difference globally
Screen Name Redacted 7/20/2023 12:38 PM	Heatstroke & burns
Screen Name Redacted 7/20/2023 01:14 PM	I haven't observed any…but as stated in previous response.. unchecked clear cutting is the main cause of our water shortages. If we had a water catchment program in place for all residents, and we stopped any more clear cutting in the upper regions we could alleviate the summer water shortages greatly. Collect it during our 8 month rainy season to use during the annual dry period.
Screen Name Redacted 7/20/2023 01:15 PM	I have experienced the loss of my freedom to own and use my land as I wish. When I saw the Water Restrictions signs stay up in the CVRD through the winter while areas were flooding, I realized this year was going to usher in a new level of insane water restrictions. During the OCP hearings, a councillor admitted that the aquifer has not been assessed and that water restrictions has more to do with renewing the license to take more water from the province. If this was such a crisis, I feel it would be a greater priority to replace old water lines which lose approximately 25% of the water that passes through, to build cisterns to collect rain water during the fall and winter, and to find other solutions. Instead, all we hear is control, control, control.
Screen Name Redacted 7/20/2023 03:37 PM	The worst impacts are not natural, but arise from the ideology-driven 'policy choices' of our collective municipalities. PLEASE, in the name of all that is honest and true, examine the source of your funding and the purposes behind the narratives you've accepted and reiterate. North Cowichan is FILLED with smart people watching & analyzing that which is occurring here and around the world: the patterns of municipal policy are in lockstep, which clearly reveals to those of us who know exactly what is going on, and we implore you to STOP the ill-advised actions you have committed to.
Screen Name Redacted 7/20/2023 10:54 PM	The heat dome destroyed the majority of the shrubs in my yard
Screen Name Redacted 7/21/2023 05:41 AM	lack of rain makes for tinder dry forests, possibility of human-caused fires extremely high. Fish impacted in Chemainus River, steelhead caught in pools and unable to move freely upstream.

Screen Name Redacted 7/21/2023 09:53 PM	I grow a lot of the food that I eat. The plants wilt and die in the heat, the food they produce wither and dry up.
Screen Name Redacted 7/22/2023 08:10 AM	Tree deaths. Flooding
Screen Name Redacted 7/22/2023 07:23 PM	The heat dome and increasingly hot summers impacted sea life, wildlife, and plant life in our area. Cedar and balsam trees are dying because of increased insect and disease caused by drought stress. I am worried about fires as a result of so much standing dry/dead timber and increasing heat. It's harder to grow successful food gardens when water restrictions are in place.1
Screen Name Redacted 7/23/2023 08:20 AM	The extreme floods, the extreme drought, people are upset, and developers are seemingly allowed to do anything they want. People over profits, please. This is out of hand.
Screen Name Redacted 7/23/2023 03:11 PM	Anxiety about fire in the forest on richard mountain tain. People go up with.l their morltorized vehicles no matter the restrictions. People Also continue to fill pools and over use water when they shouldnt. People don't listen. Their needs to be more consequences.
Screen Name Redacted 7/24/2023 08:00 AM	Even some very large trees are stressed and dying due to the heat and lack of water.
Screen Name Redacted 7/24/2023 11:13 AM	Cedar tree dieoff due to drought
Screen Name Redacted 7/24/2023 05:16 PM	Smoke from wildfires seems more common than previously observed.
Screen Name Redacted 7/25/2023 10:12 AM	Flooding
Screen Name Redacted 7/25/2023 01:33 PM	The impact I see ahead of us is ever growing governmental control and restrictions imposed on the citizens you govern without scientific evidence. I urge a north Cowichan to wet on the side of caution when going down the road of major changes to how things operate.
Screen Name Redacted	Decreased bird populations, food instability

7/25/2023 03:04 PM	
Screen Name Redacted 7/25/2023 06:00 PM	None whatsoever.
Screen Name Redacted 7/25/2023 06:13 PM	Lower river levels
Screen Name Redacted 7/25/2023 07:26 PM	The extreme heat, wildfire smoke in previous summer led to lung issues. Mental health effects of seeing clear cut logging along the highway north and subsequent noticeable heat in those areas . Same for hiking trails out past Shawinigan - incredible heat even in late fall when in clear cut zones with erosion as loss of moss etc to help seedlings take hold . It is changing our entire ecosystem :(
Screen Name Redacted 7/25/2023 10:36 PM	Extreme heat and flooding road washout,
Screen Name Redacted 7/26/2023 02:54 PM	Due to the considerable increase of summer temps, combined with loss of trees/shade due to development over the past 5yrs, temperatures within our house reach lethal levels to both humans and pets. Combatting this has been financially costly to our blue collar middle class family, already struggling to get by. The newly common prolonged droughts resulting in water shortages due to the mismanagement of our fresh water resources. The problem is only multiplied as there's seemly zero - minimal initiatives that target water recapture and retention during our rainy periods. This can be seen on all levels from government & civil infrastructure, to commercial & industry, and also including the greater civilian population. Noticable loss of local biodiversity, including but not limited to: insects such as Bees & Butterflies; fish stock within spawning grounds; as well as indigenious plant species. Unchecked propagation of invasive species. The Infestation of Brown Marmolated Stink Bugs is a prime example shining a light on the lack of effective local government awareness campaigns. Flooding is a constant worry during Fall-Spring not only due to potential water damage to the home, but also due to: Landslides; Trees uprooting and falling on homes/powerlines; Power outages leaving people unable to heat their homes, etc.
Screen Name Redacted 7/27/2023 08:51 AM	Lots of stressed, dead and dying trees and shrubs. Seastar wasting disease, loss of canopy kelps, heat dome damage to intertidal zone. Increased occurrence of blue green algae blooms

Screen Name Redacted 7/27/2023 01:20 PM	Death of conifers potentially due to prolonged drought -- Cedar balsam hemlock
Screen Name Redacted 7/27/2023 02:30 PM	no
Screen Name Redacted 7/27/2023 02:54 PM	Keep paying more and more taxes . Can't afford and electric car do the overtaxed on every thing else
Screen Name Redacted 7/27/2023 03:03 PM	Natural habitat reduction Lost of insect in Bird populations
Screen Name Redacted 7/27/2023 03:17 PM	Wildfire, winds, smoke, flooding, heat.
Screen Name Redacted 7/27/2023 03:28 PM	We have added central a/c to our home which we have never had before and I have lived in BC all my life [redacted]. Water restrictions are more imposing and last longer than ever before.
Screen Name Redacted 7/27/2023 03:47 PM	Winter cloud cover driving the toxic emissions from the pulp mill to ground level resulting in breathing issues.
Screen Name Redacted 7/27/2023 03:56 PM	rivers are flooding more and need to be cleaned up to allow the water to flow
Screen Name Redacted 7/27/2023 04:05 PM	Power outages from winter storms Not doing as much outdoor physical activity because of heat and/or smoke.
Screen Name Redacted 7/27/2023 04:31 PM	None
Screen Name Redacted 7/27/2023 04:46 PM	Dying red cedar trees on floodplain of Cowichan River [redacted] -- there were quite a few red cedars of up to about 50 years of age and they have mostly died over the last 5 years.
Screen Name Redacted 7/27/2023 06:36 PM	People's over reaction
Screen Name Redacted	My urban home is backed by a mixed cedar & fir grove. The

7/27/2023 06:44 PM	trees are appearing stressed by the extreme heat. I'm also losing established shrubs in my yard due to heat.
Screen Name Redacted 7/27/2023 07:08 PM	Loss of flow in Bings Creek; low flows in Cowichan River; closure of MFR due to fire hazard; algae bloom in Quamichan and Somenos Lake
Screen Name Redacted 7/27/2023 07:22 PM	Cooler evenings, more enjoyable summers
Screen Name Redacted 7/27/2023 08:16 PM	Noticed nearby homes garbage not completed as scheduled due to heat so drivers quit early. Work was completed expeditiously however.
Screen Name Redacted 7/27/2023 08:48 PM	The climate impacts of deforestation (thru clear cut logging) are going to continue as logging continues unabated. Forests sequester carbon, even I know that. They burn the stumps! Archaic practices produce devastating results: They must stop clear cutting the forests and do selective logging instead. For everything, including building homes. We need homes, not industrial complexes. Liveable neighbourhoods, not side by side cookie cutter houses with no trees. Time has come, to change how we do things.!!
Screen Name Redacted 7/27/2023 09:24 PM	We have seen a major increase in fear mongering and wasting of money and resources on the fabricated climate change agenda. The district should concentrate delivering basic services and lowering taxes.
Screen Name Redacted 7/28/2023 05:57 AM	more frequent power outages
Screen Name Redacted 7/28/2023 06:45 AM	It's another scam to tax us more
Screen Name Redacted 7/28/2023 01:41 PM	Loss or damage to trees. Worried about wildlife,low rivers and effect on fish survival and ecosystem up the channel.
Screen Name Redacted 7/28/2023 02:38 PM	Prolonged summer heat waves. Low river and lake levels. Adverse effects on fish populations
Screen Name Redacted	More frequent power outages.

7/28/2023 07:21 PM	
Screen Name Redacted 7/29/2023 07:34 AM	The most vulnerable and elderly are dying from heat. There are fewer animals, insects especially bees, fewer frogs and toads. The toads of Wake Lake are not migrating like they used (almost none this year) and the destruction of their migration route from the development on Riverbottom Road and Barnum where acres of land have been deforested since early March 2023 is an example of a failure of adequate regulation by the CVRD and other regulatory bodies. Many people have climate anxiety and grief about the destruction of our planet and the mental health impacts are significant for all but particularly the youth. The forestry companies are having a profoundly NEGATIVE impact of deforestation on Vancouver Island which has to stop. There must be an end to clear cut logging urgently. Forestry companies are destroying the Island. Wineries are also destructive and unnecessary because they are taking water from our already dry rivers to make a luxury commodity. Farmers must adopt sustainable farming practices that use mimimal water.
Screen Name Redacted 7/29/2023 09:04 AM	I am concerned about water security & related food security, having seen the severe issues the Sunshine Coast is experiencing.
Screen Name Redacted 7/29/2023 10:06 AM	Greater variability in weather impacting growing of vegetables and food from one year to the next - with increased restrictions on use of water to irrigate crops - food sustainability in the CV and in Vancouver Island could be greatly impacted
Screen Name Redacted 7/29/2023 02:42 PM	Wells running dry, trees dying, movement of wildlife closer to humans
Screen Name Redacted 7/30/2023 05:42 PM	(I worry more about FUTURE impacts, which are surely on the way.)
Screen Name Redacted 7/31/2023 06:58 AM	Smoke from forest fires impacting respiratory health
Screen Name Redacted 8/01/2023 08:51 AM	What I have observed is an intense amount of fear mongering by govt on climate change.
Screen Name Redacted 8/03/2023 01:32 PM	Soil becomes hydrophobic during the drought, so infrequent rains in summer are not soaking in. Old Garry oaks are losing major limbs in summer because of lack of moisture - a major safety hazard. Other

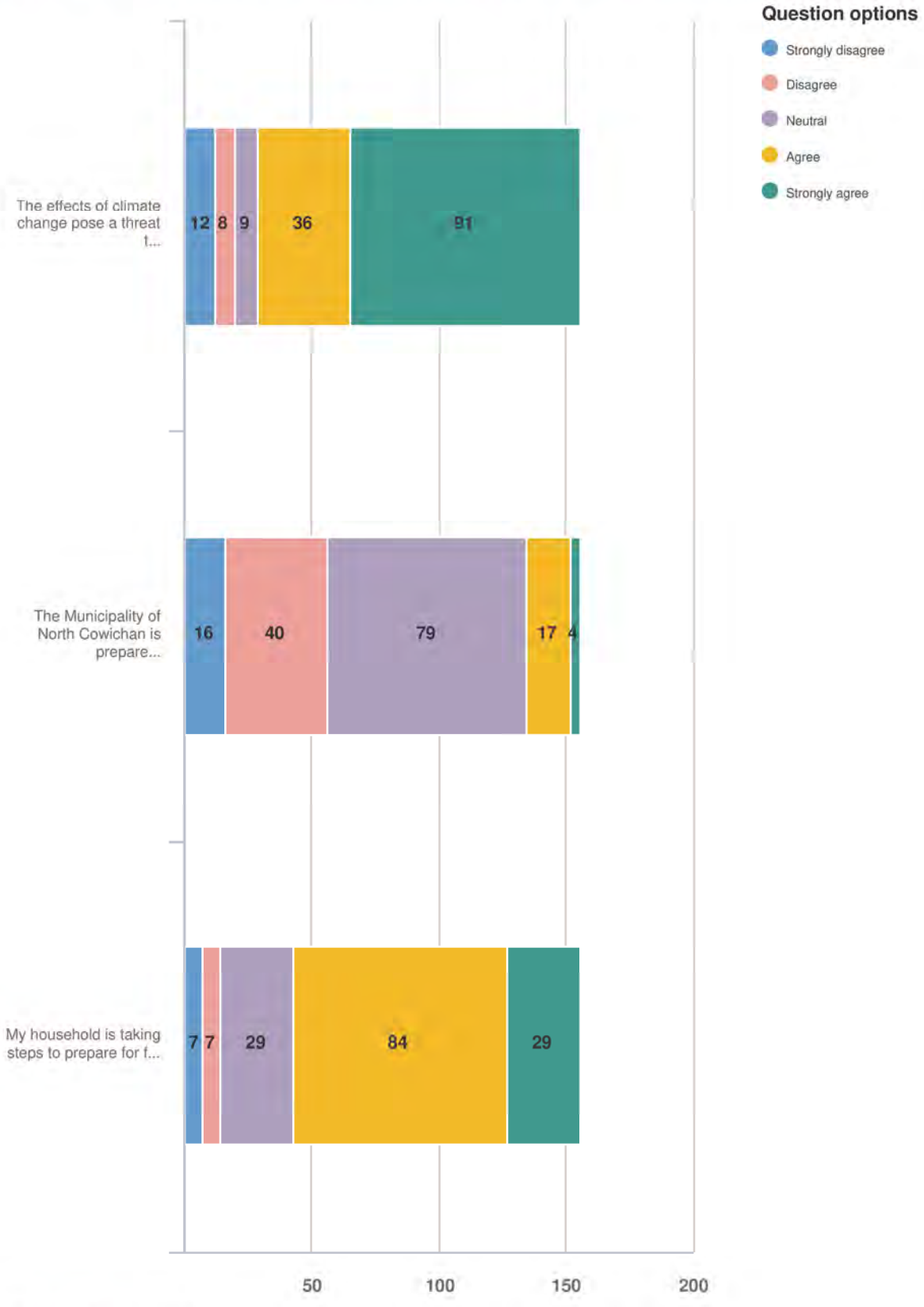
	native plants are senescing before they have a chance to form seeds. Wetlands and riparian areas are drying out completely or getting too hot to support the life that would normally thrive in these areas.
Screen Name Redacted 8/04/2023 08:20 AM	Algae bloom frequency and overall duration in ocean and lakes increasing
Screen Name Redacted 8/06/2023 08:18 AM	Extreme heat.
Screen Name Redacted 8/06/2023 11:54 AM	trees dying on our property
Screen Name Redacted 8/06/2023 12:28 PM	Every tree that comes down for subdivision clearing adds to the radiant heat build up.
Screen Name Redacted 8/06/2023 12:46 PM	We have been fortunate not to be exposed to forest fire, wildfire smoke so far this summer, however, that feels more like luck than anything else. Poor air quality is so damaging to both physical and mental health, the threat of wild fire is real and very worrisome, particularly perhaps on Vancouver Island where there are so few major escape routes. Is appropriate emergency planning in place, both provincially and at the municipal level. We have experienced poor air quality due to wild fire smoke in previous years, we know how awful it can be. The woods are so dry, the creek beds have no water, or barely any water in them. The lake & river level is down significantly, this impacts fish & wild life, all of us.
Screen Name Redacted 8/06/2023 12:39 PM	Loss of some roofing in windstorm, and repeated power outages. Rise in electricity usage for air conditioning in summer. Damage to trees from drought. Sea water level rise in the Estuary.
Screen Name Redacted 8/06/2023 01:24 PM	Gary oak acorns are not maturing and falling off the tree, crickets have emerged in mid July instead of mid/late August
Screen Name Redacted 8/06/2023 01:53 PM	Extreme heat in summer
Screen Name Redacted 8/07/2023 02:51 PM	None

Screen Name Redacted 8/07/2023 04:55 PM	Significant concerns over wildfire danger
Screen Name Redacted 8/07/2023 05:13 PM	High heat and air quality leading to restricted outdoor activities

Optional question (116 response(s), 40 skipped)

Question type: Essay Question

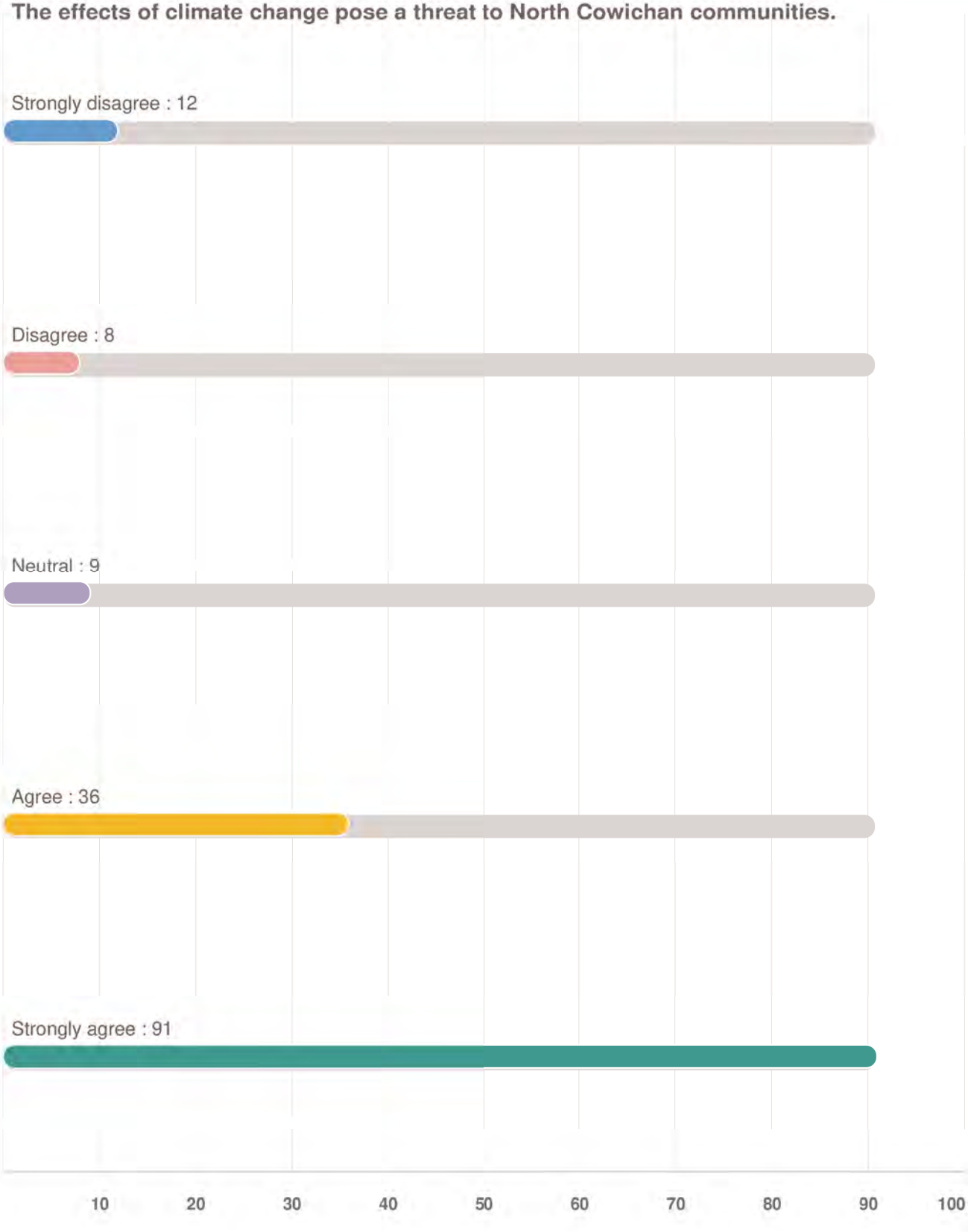
Q8 For the questions below, please indicate your level of agreement.



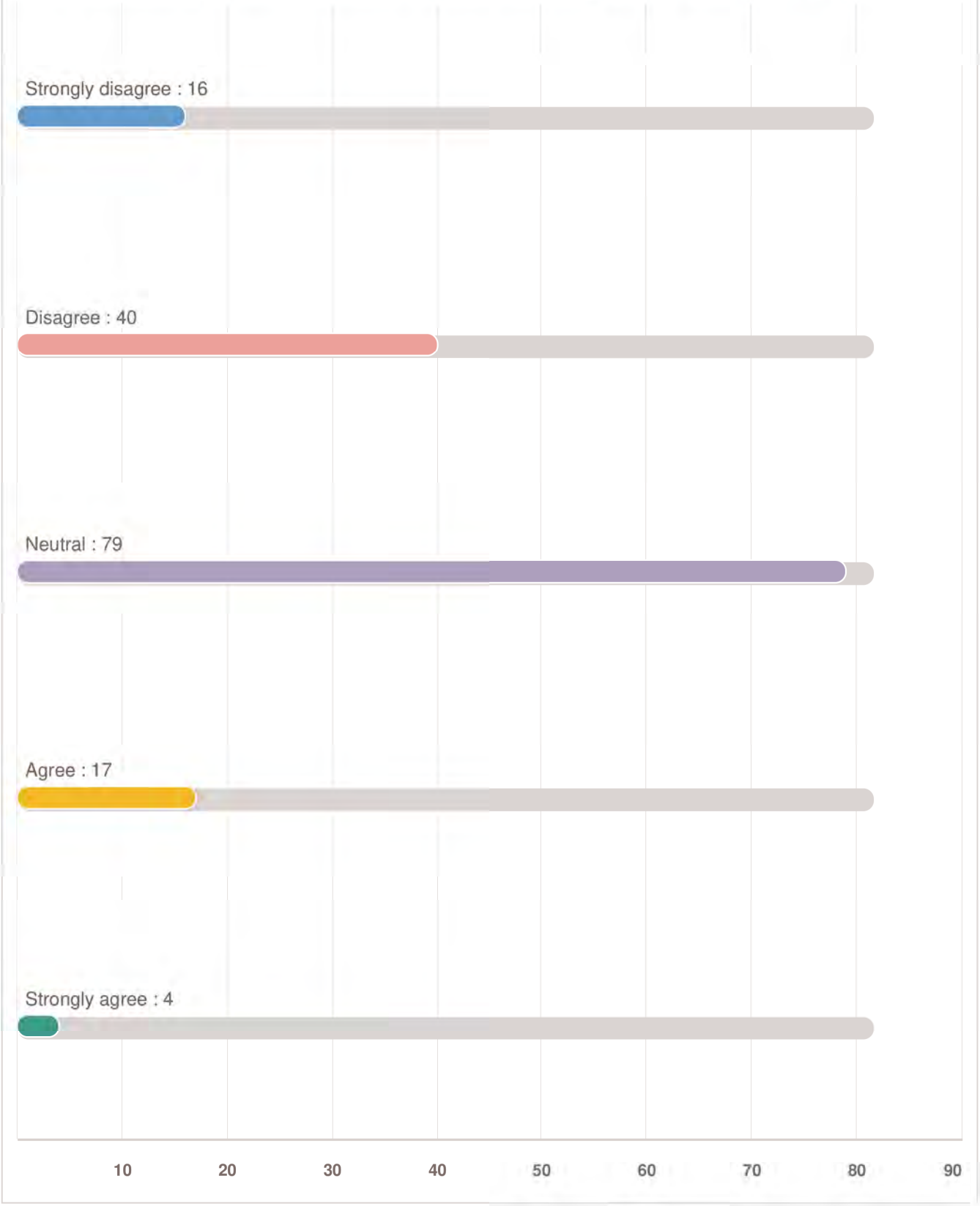
Mandatory Question (156 response(s))
Question type: Likert Question

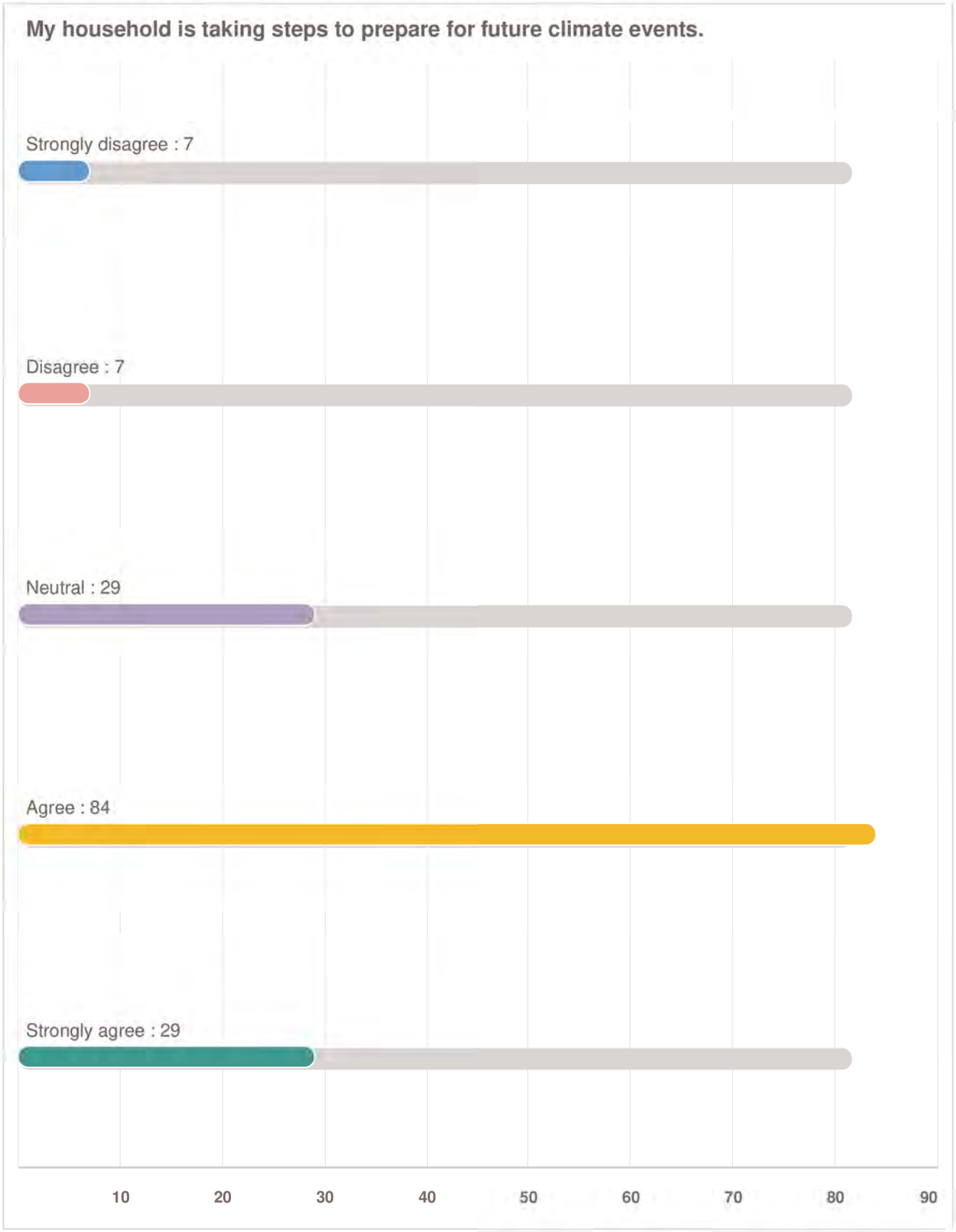
Q8 For the questions below, please indicate your level of agreement.

The effects of climate change pose a threat to North Cowichan communities.

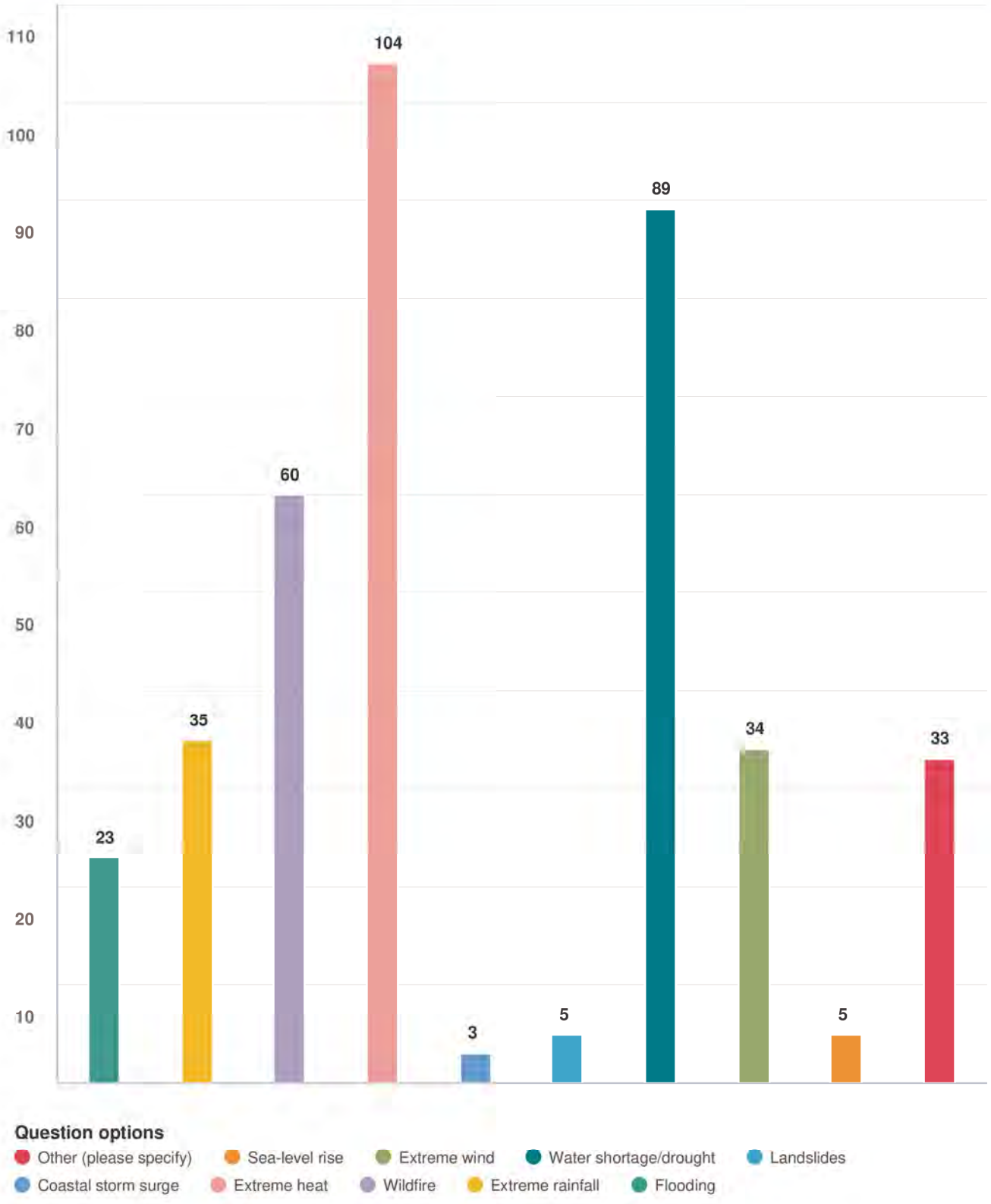


The Municipality of North Cowichan is prepared to respond to climate hazards.




My household is taking steps to prepare for future climate events.
Strongly disagree : 7
Disagree : 7
Neutral : 29
Agree : 84
Strongly agree : 29
10
20
30
40
50
60
70
80
90

Q9 | **If your household is preparing for future climate events, what types are you preparing for? (You can select multiple answers).**



Mandatory Question (156 response(s))
Question type: Checkbox Question

Q10 Do you have any additional comments or information you would like to share?

Screen Name Redacted 7/13/2023 12:50 PM	Before anything else - we need a central, no barrier, 24/7 refuge for people who need a safe place to be - especially during extreme weather events. Cowichan Tribes, the street population, aging community members and those with disabilities need to be centered in these conversations.
Screen Name Redacted 7/27/2023 04:19 PM	North Cowichan needs together on with mitigation actions now. Stop kicking the can down the road by studying, consultants, surveys. The experts in Fire Department should have been working on many of this issues already.
Screen Name Redacted 7/13/2023 10:05 PM	We now clean our gutters twice a year instead of just once
Screen Name Redacted 7/14/2023 12:32 PM	hopefully advance planning will help to mitigate the coming changes in our local climate
Screen Name Redacted 7/14/2023 03:23 PM	We have installed a heat pump for summer cooling, have added more attic insulation, and have made 'sun shades' for front windows to reduce house warming; in the garden, the vegetable area is increasingly mulched to retain moisture and 'weeper' hoses have been installed to direct water directly to plant roots.
Screen Name Redacted 7/14/2023 04:50 PM	Preparing for climate events is important, absolutely. North Cowichan might also consider preventative measures that will protect the community - the natural environment and the citizen of Cowichan. Review of current practices with a lens of prevention...which practices might be halted? Adapted? Enhanced? To best protect the community against climate change. North Cowichan has an opportunity to be leaders.
Screen Name Redacted 7/14/2023 06:00 PM	Yes, you should correctly provide a definition for what you refer as a "climate hazard". IE the lay persons' belief that a particular weather event may or may not have occurred due to our changing climate, not backed up by statistical evidence but rather one's subjective views. OR a Weather event and weather hazard that may be associated with a changing climate...blah, blah...

Screen Name Redacted 7/14/2023 06:24 PM	The property behind [redacted] is a forested area with little to no care given to dead trees or undergrowth, which is a wild-fire concern. The trees in my yard provide much-needed cooling in the summer, as well as other environmental benefits and I worry they will die of drought if I can not water them adequately. I feel helpless to solve this.
Screen Name Redacted 7/14/2023 09:31 PM	North Cowichan is slow to conserve water and get ppl on board in water conservation. New builds should include water catchment; washer and sink plumbing to be directed to the garden in the summer and fall; May should be the start of stage 2 water restrictions: June stage 3; no washing vehicles unless at car wash where it's mandatory to recycle the water; no watering of lawns ever unless new sod; golf courses should not be watering either! We need a proper sewage treatment facility.
Screen Name Redacted 7/15/2023 06:55 AM	CRD has rain water capture incentives, MNC doesn't. Why???
Screen Name Redacted 7/15/2023 01:52 PM	Things that could be done would be to inform residents of Tzouhalem Road when/if flooding is expected. A dike to prevent the road from flooding would be nice. Now that Area D is going to be taking out the dike I believe we will see highway flooding more because the water will have no where to go, whereas before it would flood farmers fields
Screen Name Redacted 7/15/2023 03:48 PM	We need to reconsider how many non market houses are being added to our area. There's not enough water now, it's only getting worse by recklessly adding homes only the top 10% can buy.
Screen Name Redacted 7/15/2023 06:52 PM	Stop watering ball parks every day. Especially when the tournaments are over
Screen Name Redacted 7/16/2023 12:28 AM	Bylaws need to be more strictly enforced including businesses over watering. Dead trees need to be cleared from forested areas.
Screen Name Redacted 7/16/2023 12:48 PM	Incorporate way more plant life (shade trees, native flora boulevards, etc) in all further developments/infrastructure; and build so that places are just as walkable as they are drivable. This will have a cooling effect, make the commute safer for those who have to walk, and mitigate further contributing to climate change.
Screen Name Redacted	I would like financial incentives for homeowners to install rain water

7/17/2023 08:59 AM	collection systems.
Screen Name Redacted 7/17/2023 01:02 PM	Please provide studies and context surrounding the impact of the climate policies as it relates to the cost of living. We are bombarded by this 'sky is falling' and 'doomsday' type of content all the time. Yet we don't actually see that in our community, we just see it pushed through media. We see more and more climate policies as a result of this, and we are seeing the effects of this in our local economy. It would be wonderful to see the impacts of climate change policy on our community.
Screen Name Redacted 7/17/2023 08:57 PM	I wish the general public would start to understand the extreme danger we are in. This is not the 'New Normal'. It will get worse, because of our greed & stupidity.
Screen Name Redacted 7/17/2023 11:20 PM	We need to change the regulations or provide incentives so people can collect rainwater for gardening or introduce grey water systems, solar arrays, alternative sources of energy. Focus on complete communities, multi-use trails systems that are for commuting. Stop allowing commercial car washes during droughts and please no more of these businesses. Encourage or incentivize local food production and small-scale organic farming not soil depleting monocropping with tonnes of inputs that run off into our lakes and marshes killing pets and biomass and causing oxygen depletion and toxic blooms. No building in hazardous zones prone to flooding, fire, sea-level rise. No encroachment into sensitive ecosystems or into agriculturally-productive land to build huge houses with paved driveways and impermeable surfaces or huge bunkers for production of weed plants. Work with other governments or organizations to limit single-use products or with planned obsolescence. Work with other governments or organizations to make manufactures and producers of goods and shipping material to be responsible for disposing of their packaging or products. Ban plastic packaging.
Screen Name Redacted 7/18/2023 10:59 AM	We are increasing our winter rainwater collection system capacity to 5,500 gallons so we can water our garden and plants in the spring summer fall.
Screen Name Redacted 7/18/2023 03:20 PM	Please make cooling centres available 24 hours a day in extreme heat. All homeless people should also have access to shelter from wildfire smoke when necessary, and from the heat and cold. Wildfire smoke can kill people with asthma, and virtually anyone, not only those with respiratory problems, can suffer greatly from inhaling the

	toxins and tiny particles.
Screen Name Redacted 7/18/2023 03:23 PM	I tend to hope that we will see some stability in wheather trends in the next couple of years
Screen Name Redacted 7/18/2023 03:32 PM	While I don't reside in Cowichan, I work and play in this territory. I am concerned over the communications piece noting that the Cowichan Action Table and Our Cowichan do their best at ensuring agencies are aware of each other's support and capacity. With the PiT count, the volume of persons unhoused is growing exponentially and there are growing concerns over the ability to support the hidden homeless populations.
Screen Name Redacted 7/18/2023 07:58 PM	Don't replace the hockey stick, instead raise the weir in Lake Cowichan.
Screen Name Redacted 7/19/2023 01:38 AM	Deforestation is making summer heat and droughts worse. Unlimited growth is damaging air quality.
Screen Name Redacted 7/19/2023 09:04 AM	I feel like we are on our own in preparing for and responding to climate events. Some kind of organized or supported planning and preparations would be helpful. For example, supporting community organizing for emergency preparedness, assisting in reducing wildfire risk around homes/properties, supporting with planning for extra water storage for well properties, evacuation planning...
Screen Name Redacted 7/19/2023 09:55 AM	At the moment I can not think of anything
Screen Name Redacted 7/19/2023 03:42 PM	We need funding to provide emergency packs immediately. The wildfires on the island (and BC) should be a wake up call. My family has a decent-sized income, but we still are not able to afford emergency packs to ensure our safety during a disaster.
Screen Name Redacted 7/19/2023 06:00 PM	More focus on "green"spaces (small urban greenspaces, trees on streets, near parkinglots, etc) for natural cooling of buildings and homes. Rebates or free water conservation items (rain barrels, compost (helps soil erosion), micro drip, trellises (climbing plants can be grown away from home foundation/walls but will help prevent "heat dome" effects on house) . I would like to see more focus on household education on soil improvement, erosion, water saving,

	restoring mini self-sustaining ecosystems in yards and small lots. Encourage community garden space for all new developments, reduces need to drive to stores, etc. Help people get more self-sufficient and become "experts" in restoring small aras/land back to "natural" (green, trees, plants, native plants, pollinators, wildlife)...offer free compost to encourage people to grow locally in their neighbourhoods.
Screen Name Redacted 7/19/2023 06:32 PM	Work hard to safeguard streams and riparian areas and keep them in shade to keep the streams cool for people and wildlife. This will also help to keep cedar trees alive.
Screen Name Redacted 7/20/2023 05:04 AM	change the information tactics to explaining the normality of occasional extreme weather, not the alarmist stance currently used Cowichan Valley does not have extreme weather. we never experience the +40 to -40 temp swings thought the year most of the country does. only a few places like chemainus river over the Trans Canada flooding every other year will resolve itself when a bridge gets wiped out. Because we know nothing will be done federally until that happens.
Screen Name Redacted 7/20/2023 06:14 AM	You will pay for your treason!
Screen Name Redacted 7/20/2023 11:35 AM	Yes, PLEASE follow the science that clearly shows the weather patterns we have experienced the last 5 - 10 years are no different, no more extreme than those of 30 years ago. "Global warming", then when we go into a cold patter, "global cooling", and when the government doesn't really know which is which, they change it to "climate crisis". Nature will do what it will do, CARBON is essential for life, and this basic Grade 4 science does not seemed to be understood in this decade.
Screen Name Redacted 7/20/2023 12:12 PM	NC has declared a climate emergancy without relying on any data or science whatsoever . The IPCC has changed their report ONCE again since NC made their declaration. NC was hired to supply basic infrastructure to the citizens not attempt to save the world . Your focus will impoverish the citizens along the way and cause irreparable harm . NC forest reserves ALONE cover all citizens "carbon output". Carbon is the building block of life . What is net zero ? because at 150 ppm (currently at 430 ppm) all life on earth dies ! Carbon cycles follow heat cycles , not the other way around . Stop asking for tax payers money in the form of Grants for this scheme. Please just focus on local environmental issues like dredging rivers and streams and

	the like .
Screen Name Redacted 7/20/2023 12:28 PM	It would be good to have financial support for rain barrels and compost bins towards food security as climate affects that especially
Screen Name Redacted 7/20/2023 12:38 PM	It would be nice to have a municipal fund to help low income people buy heat pumps
Screen Name Redacted 7/20/2023 01:14 PM	We have 8 months of rain.. funds designated for "climate change" should be designated to start a serious water catchment system, and better forest management would take care of the rest over time.
Screen Name Redacted 7/20/2023 01:15 PM	Please work for our benefit and not for the globalists. Please wake up to the agenda you are serving. It affects us all.
Screen Name Redacted 7/20/2023 03:31 PM	With the amount of precipitation we receive in the winter months, there is no reasons we shouldn't be able to reserve enough through the creation of more reservoirs, (combined with better water conservation policies), to maintain stage 1 water restrictions though out the summer.
Screen Name Redacted 7/20/2023 03:37 PM	water usage restrictions increase the flammability of carbon-based growth. https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0221403
Screen Name Redacted 7/20/2023 10:54 PM	I'm concerned our resources and infrastructure can support the current population let alone all the new residents moving to the valley.
Screen Name Redacted 7/21/2023 05:41 AM	more information for public regarding forest safety needed. More closures of forest access during extreme heat events. More info for property owners re fire safety and keeping property clear or combustibles, including private stands of forested areas.
Screen Name Redacted 7/21/2023 09:53 PM	I am aware of and participate in so many activities and work bees aimed at monitoring and mitigating the effects of a changing climate. I know the municipalities are also working toward those goals. However, continued use of fossil fuels with little being done to promote solar and other technologies as alternatives is too slow. Growing the population beyond the capacity to be sustainable is

	exacerbating the problems. I see little being done by the municipality terms of education about river and aquifer health, about sewage and waste, about minimal footprints and less consumerism. I'm not aware of incentives for green businesses and technologies. I wish Council was more united in acknowledging what we are facing, and move forward on the common ground rather than pull divisive stunts.
Screen Name Redacted 7/22/2023 08:10 AM	Biggest impact on us and our neighbours is water restrictions due to drought. Our beautiful landscaping is reduced to brown sticks each summer! Need water storage planning!
Screen Name Redacted 7/22/2023 07:23 PM	I would appreciate help with establishing cisterns and grey water systems to help fight drought.
Screen Name Redacted 7/22/2023 09:45 PM	Climate, in the long game on this planet, is always expected to swing. We definitely need to be prepared for extremes that our modern way of living has never experienced before, but we shouldn't do it in a manner that is alarmist. It's okay that things may change, and it's okay that some people aren't as familiar with the true underlying factors, though anything we aim to change should be done through the lens of cooperation and mutual understanding, not top down control.
Screen Name Redacted 7/23/2023 08:20 AM	Enough developing. The whole island is stressed to the maximum, just because a handful of people want to get rich. Enough is enough.
Screen Name Redacted 7/23/2023 03:11 PM	North cowichan needs to clean up the forest behind [redacted] There is so much downed day timber and it needs to he cleaned up. We have had many trees fall on our property during wind storms. North Cowichan is reactive not preventive . We have put up our own fire hazard signs and cleaned up many trees
Screen Name Redacted 7/24/2023 05:16 PM	Food security is also put at risk from climate change.
Screen Name Redacted 7/25/2023 12:17 PM	Cost of living is getting so high its hard to make the upgrades necessary to protect our homes from extreme events
Screen Name Redacted 7/25/2023 01:33 PM	Please listen to your citizens and work with them instead of imposing arbitrary and harsh restrictions. Your citizens have been taxed

	enough and had personal rights removed our restricted quite enough thank you!! No more.
Screen Name Redacted 7/25/2023 03:04 PM	Water collection and storage has become more and more necessary
Screen Name Redacted 7/25/2023 06:00 PM	Time to cease either the fear mongering.
Screen Name Redacted 7/25/2023 07:26 PM	Less car usage, saving for another electric vehicle, I think we need to move to more solar incentives locally as bc hydro thwarts it currently and makes heat pump incentives very tough to get . Need local help. Also help those interested in using grey water for watering trees etc in their yards as it goes to waste . Pushing electricity and water conservation as a good thing . Stop clear cutting and move to selective logging including on reserve
Screen Name Redacted 7/26/2023 02:54 PM	Stop phrasing initiatives that proactively address the real effects of climate change as a financial cost, but speak to them as a savings. Cite and utilize the countless, reviewed and published studies that clearly outline the real economic cost continued inaction will guarantee. Make the moves now to secure we have a manageable future, because we all know every corporation will leave the moment our resouces and land is depleted.
Screen Name Redacted 7/27/2023 08:51 AM	There are a lot of fire risk issues unaddressed in our neighbourhood. If a fire starts along Donney drive it will quickly burn into harmony park and Providence Farm.
Screen Name Redacted 7/27/2023 03:03 PM	Proper irrigation management
Screen Name Redacted 7/27/2023 03:28 PM	No
Screen Name Redacted 7/27/2023 03:56 PM	no
Screen Name Redacted 7/27/2023 04:31 PM	Not the best survey. But I think parks need more attention already, and climate change could be an issue. For example, new subdivisions butt up against existing parks, like along the Cowichan Trail corridor, but don't create additional greenspace (as is mandatory

	in jurisdictions such as Colorado and Florida). In other words, housing development reduces forest land, compromises some parks, and increases the demand for water and other resources. Parks are already under-protected. Even the estuary nature sanctuary employs only signage as a kind of token protection, but no patrols to make sure that people aren't impacting the special area there, as the most extreme example. Would you obey the speed limits if there weren't traffic police, radar traps and traffic fines? So given the low priority of parks now, I think any additional threat from climate change will make the "protected" areas more vulnerable. On a related note, should municipalities owning forest land be allowed to redesignate areas for housing subdivisions to "cash in" when such changes reduce forest cover that we should consider even more important with respect to protecting our world from human caused climate change.
Screen Name Redacted 7/27/2023 07:08 PM	Lack of investment in water recycling is very concerning; diverting sewage outfall to ocean instead of installing tertiary treatment with water recovery is insane; building practices are business as usual; developers are allowed to clearcut and then leave land barren for years
Screen Name Redacted 7/27/2023 08:48 PM	The issue here is: do you want people to survive the coming storms? For myself, I am ready to leave. I can't take all my family with me, so I am attempting to change policies that might help them.
Screen Name Redacted 7/27/2023 09:24 PM	The district should concentrate delivering on basic services and keeping taxes low. Anything more is wasting tax dollars.
Screen Name Redacted 7/28/2023 05:57 AM	no
Screen Name Redacted 7/28/2023 07:00 AM	Would like more information on how north cowichan is addressing climate adaptation on municipal infrastructure.
Screen Name Redacted 7/28/2023 12:36 PM	Traffic congestion causes more fuel consumption. Need for more EV charging stations.
Screen Name Redacted 7/28/2023 02:12 PM	I feel that north cowichan needs to have pay per use water. There's incentive not to go above the max house hold limit, but no incentive to cut water usage further. I feel that with pay per use then people will really be thinking about how much water they use. Maybe people will even use water barrels to collect water and use it to water gardens,

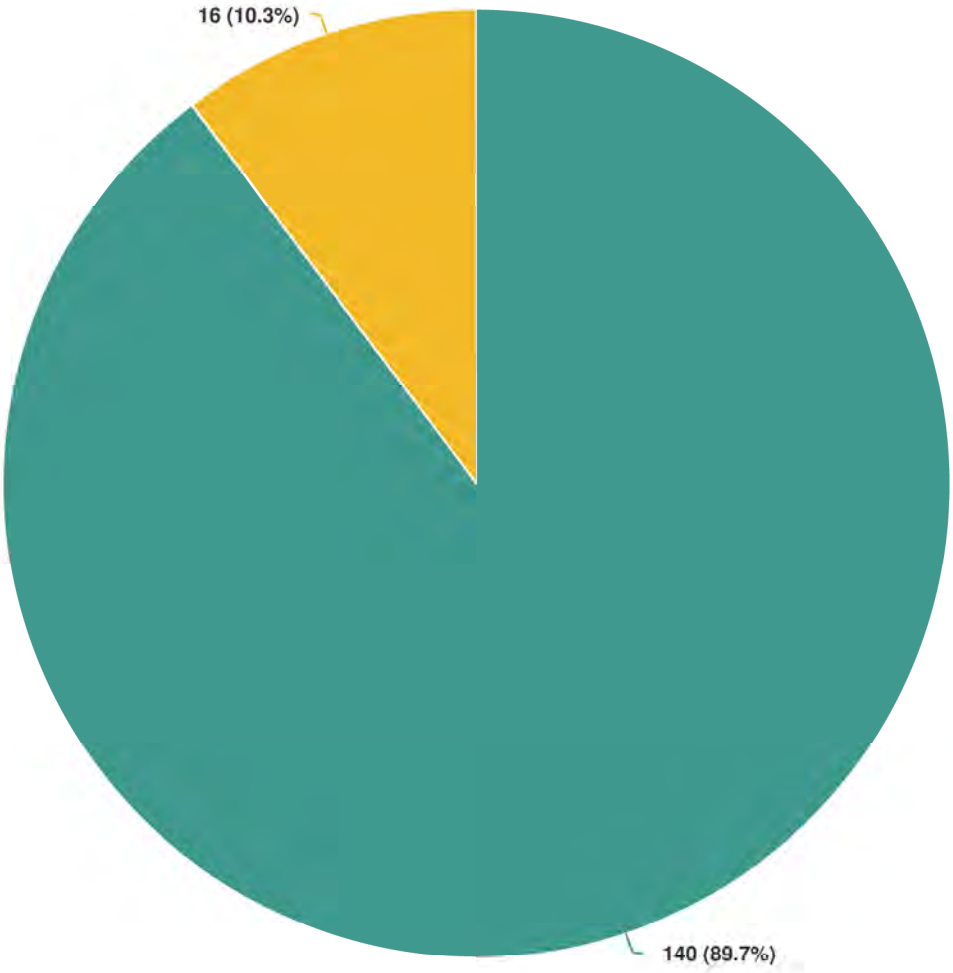
	like we do, that cuts our water usage down significantly in the summer.
Screen Name Redacted 7/28/2023 07:21 PM	Up the hills from Maple Bay Rd there is the potential for devastating fire. High winds could cause fire to get out of control quickly. Many households haven't been educated in the minimization of fire fuels on their properties. This education must come to the publics attention through mail outs otherwise most people will not learn of the risk.
Screen Name Redacted 7/29/2023 07:34 AM	The most vulnerable and elderly are dying from heat. There are fewer animals, insects especially bees, fewer frogs and toads. The toads of Wake Lake are not migrating like they used (almost none this year) and the destruction of their migration route from the development on Riverbottom Road and Barnum where acres of land have been deforested since early March 2023 is an example of a failure of adequate regulation by the CVRD and other regulatory bodies. This needs to be stopped and habitat restored. Many people have climate anxiety and grief about the destruction of our planet and the mental health impacts are significant for all but particularly the youth. This is an emergency and our government and elected officials are not treating it as such. We need decisive action for the planet NOW. The forestry companies are having a profoundly NEGATIVE impact of deforestation on Vancouver Island which has to stop. There must be an end to clear cut logging urgently. Forestry companies are destroying the Island. Wineries are also destructive and unnecessary because they are taking water from our already dry rivers to make a luxury commodity. Farmers must adopt sustainable farming practices that use mimimal water.
Screen Name Redacted 7/29/2023 09:04 AM	I hope the Municipality of North Cowichan will be able to provide both practical advice/ guidance & financial incentives when it comes time to build our new home in a climate resilient way.
Screen Name Redacted 7/29/2023 10:06 AM	I'm not sure how prepared MNC is
Screen Name Redacted 7/30/2023 04:00 PM	I hope see significant municipal action to prepare for and prevent damage, recognizing it means increased taxes.
Screen Name Redacted 7/31/2023 06:58 AM	A clear policy encouraging grey water / rainwater collection would be really helpful, and the district may want to explore micro-hydro and solar options to provide a level of resiliency and support for key critical infrastructure such as warming or cooling centers. Several

	regional districts are also offering rebates or grants for homeowners who "Firesmart" their homes - Fraser Valley example: https://www.fvrd.ca/EN/main/services/fire-protection/firesmart-in-the-fvrd.html
Screen Name Redacted 7/31/2023 01:41 PM	Remediation of the rivers through the flood plain need to be done BEFORE it floods again and done on a regular basis
Screen Name Redacted 8/01/2023 08:51 AM	The District should be more concerned with providing basic services. We do not need more expensive committees formed to gobble up tax dollars for climate change research. People are suffering now with the federal and provincial govt climate taxes. We do not need another level added on.
Screen Name Redacted 8/01/2023 03:58 PM	Re: Years of water restrictions. I believe that there has been enough studies and assessments in this regard. It is time to take action and assign its resolve to a prompt priority. Thank you for the great work that has been done to-date.
Screen Name Redacted 8/03/2023 12:01 PM	North Cowichan Regional District needs to consider capping growth in the district as we have insufficient water resources to sustain future population growth. It is idiotic to issues new building permits when we have insufficient water for our current population.
Screen Name Redacted 8/04/2023 10:04 AM	finding solutions for the 'unhoused' is a federal responsibility and any efforts by our community must only be undertaken in concert with federal leadership. please keep the pressure on your provincial and federal counterparts to deal with the mentally ill, the addicted, and the unhoused! please remember that our community is not alone in this struggle.
Screen Name Redacted 8/05/2023 08:18 AM	With water restriction and drought being more frequent I'm unsure of where the extra water for the number on new homes projected will be supplied from. Also The municipality will need to find a way to minimise the watering of sports fields.
Screen Name Redacted 8/06/2023 12:28 PM	We authorized additional tax money for the MNC to study and authorize raising the weir on the Cowichan Lake Reservoir. Where is the action?

Screen Name Redacted 8/06/2023 12:46 PM	I hope that our elected officials will do everything within their power, adopt all best practices to help mitigate the impacts of climate change on North Cowichan, on our community. Any costs attached to these initiatives would be insignificant relative to the costs of doing nothing, denying climate change, a business as usual approach. We need to be excellent stewards of this land, our beautiful community.
Screen Name Redacted 8/06/2023 01:24 PM	No
Screen Name Redacted 8/07/2023 04:55 PM	Don't think that municipality polices water restriction regulations vigorously enough if, in fact, water volumes or water delivery are threatened.
Screen Name Redacted 8/07/2023 08:33 PM	have tried to cut Ghg emissions through EV and use passive house construction principles in rennovation, plenty of trees, drought tolerant planting

Optional question (84 response(s), 72 skipped)
Question type: Essay Question

Q11 Are you a resident of the Municipality of North Cowichan?

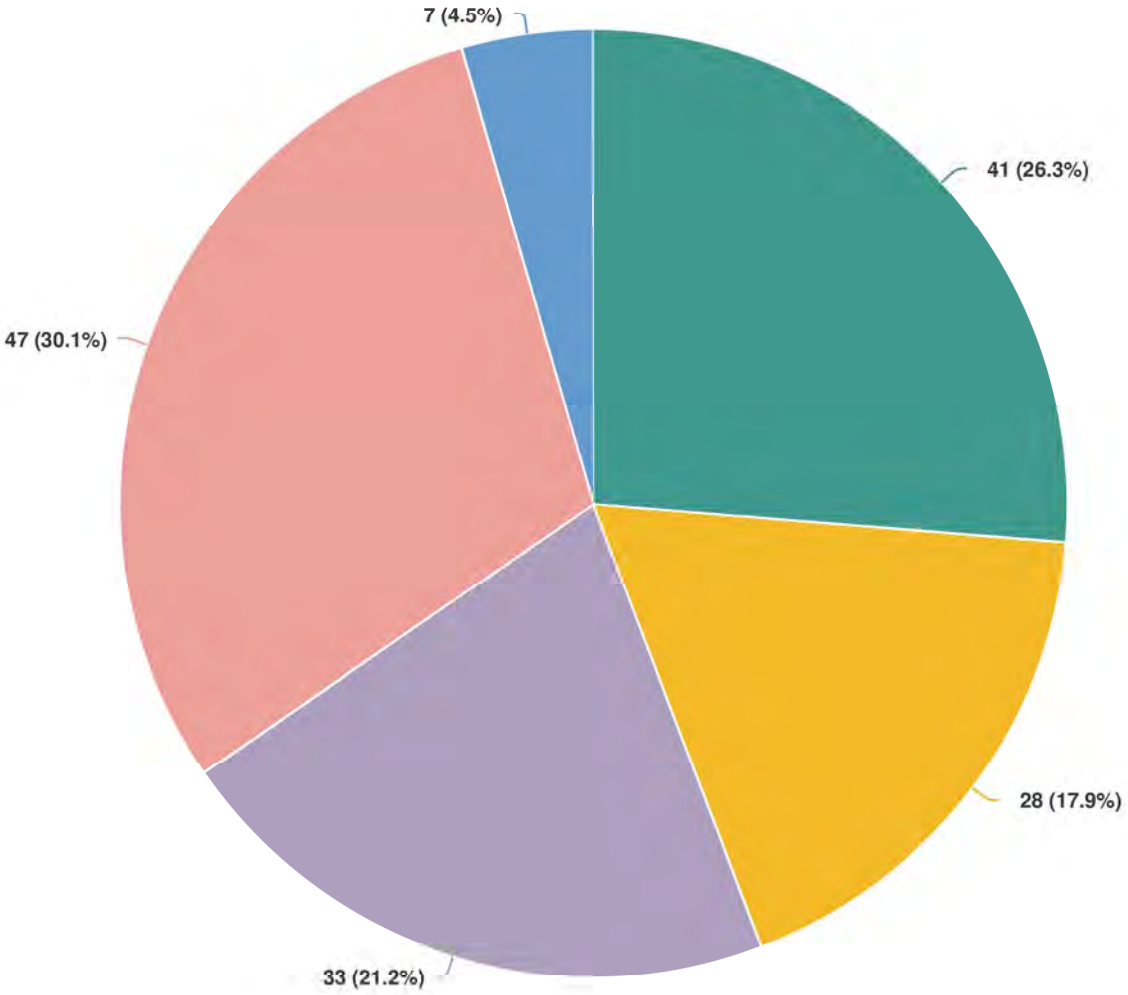


Question options

No Yes

Optional question (156 response(s), 0 skipped)
Question type: Dropdown Question

Q12 If you answered "Yes" above, how long have you been a resident?

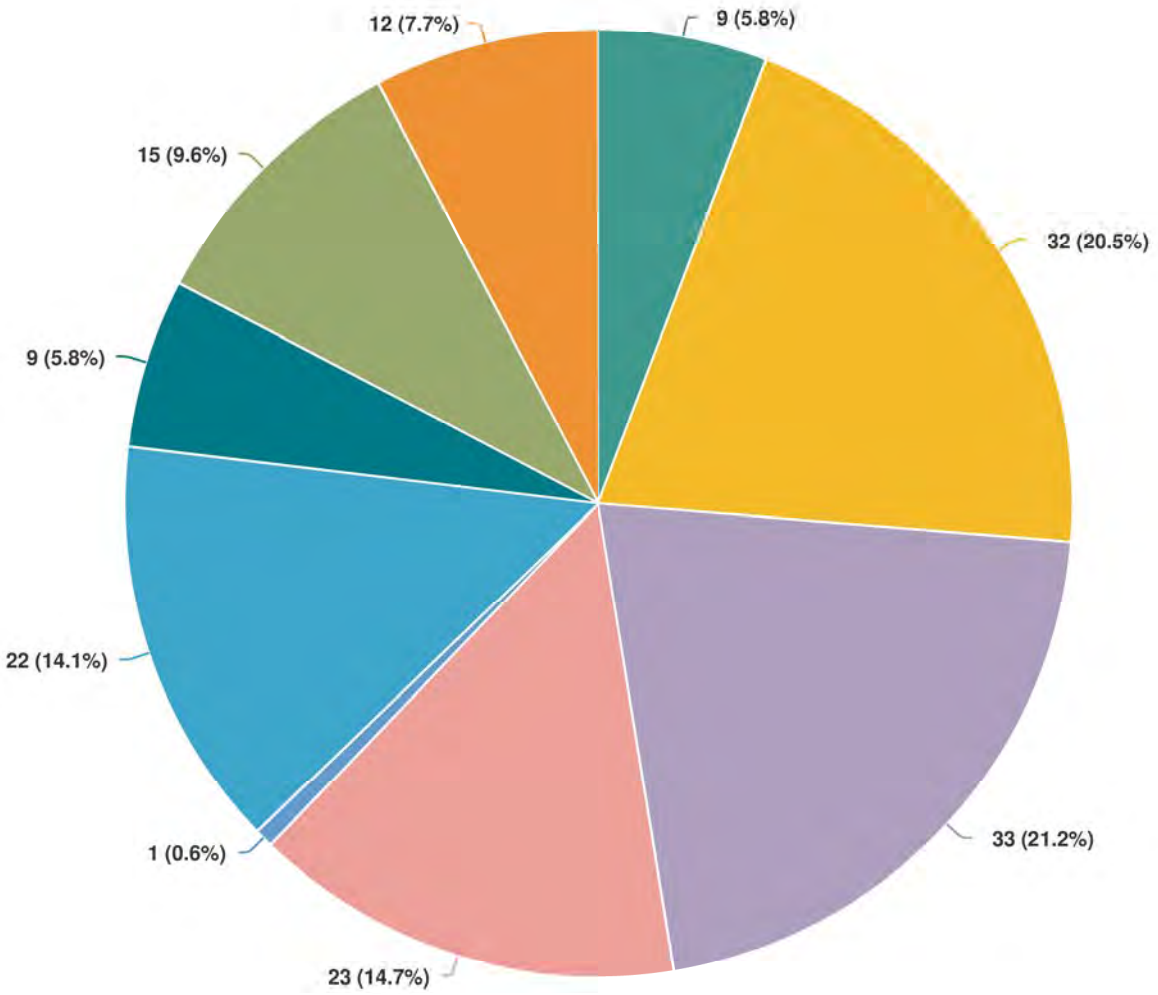


Question options

I am not a resident of North Cowichan | 21+ Years | 11-20 Years | 6-10 Years | 0-5 Years

Mandatory Question (156 response(s))
Question type: Dropdown Question

Q13 In which area of North Cowichan do you reside?

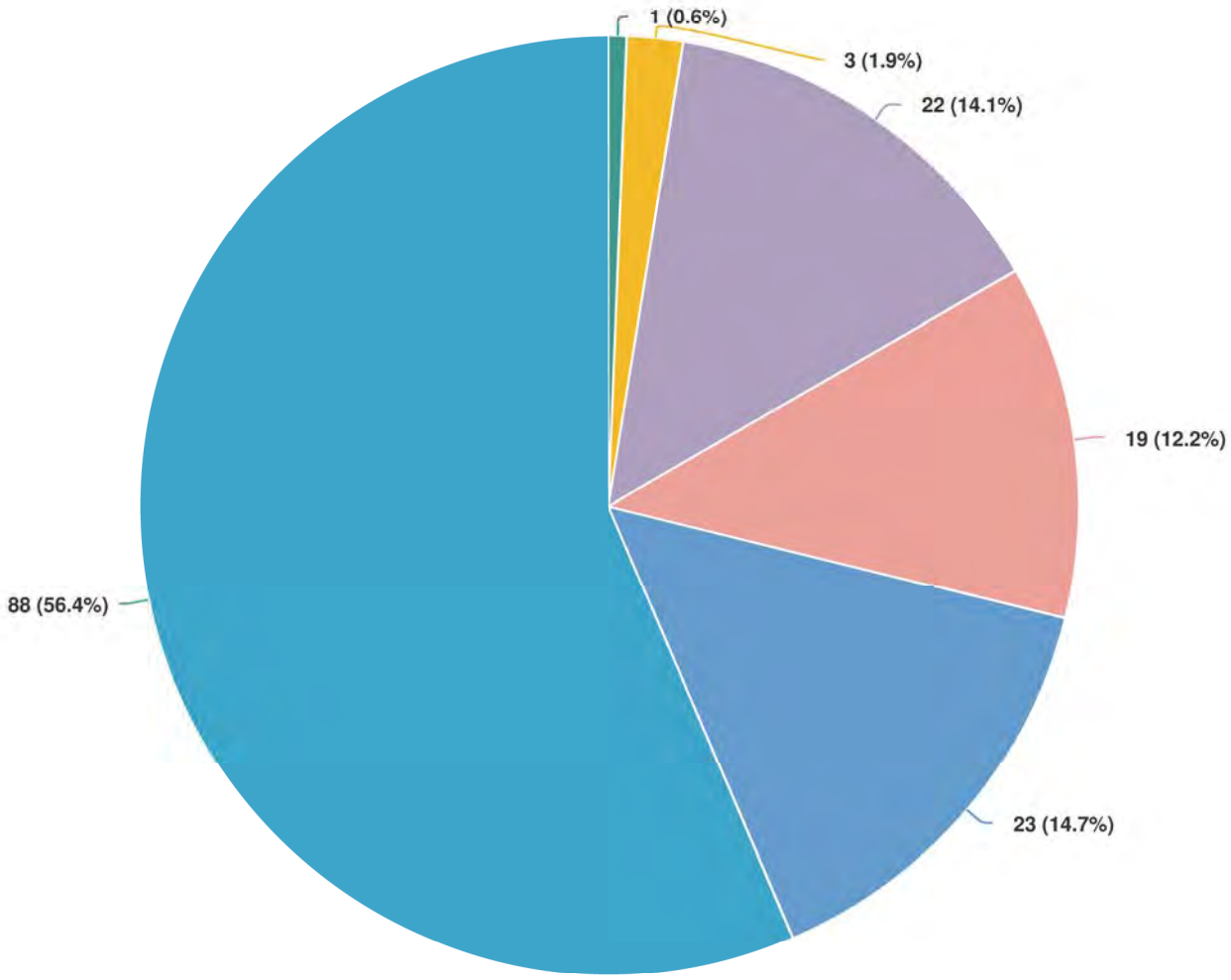


Question options

I am not a resident of North Cowichan
Rural/Westholme
South End/University Village
Berkey's Corner
Bell McKinnon
Quamichan
Maple Bay
Chemainus
Crofton

Mandatory Question (156 response(s))
Question type: Dropdown Question

Q14 Please indicate your age range from the choices below.



Mandatory Question (156 response(s))
Question type: Dropdown Question

APPENDIX B:

MAPPING EXERCISE RESULTS

ENGAGEMENT TOOL: PLACE

What areas of North Cowichan are most vulnerable to climate hazards?

Visitors 41	Contributors 2	CONTRIBUTIONS 3

2023-07-15 13:54:52 -0700

[redacted]

CATEGORY

Marker

Tzouhalem Road Flooding
Address: 1331 Tzouhalem Road, Duncan, British Columbia V9L 5L3, Canada

http://www.connectnorthcowichan.ca/climate-adaptation/maps/climate-hazards-map?reporting=true#marker-111634

2023-07-27 16:22:11 -0700

[redacted]

CATEGORY

Marker

Forested area with very tall grass
Address: 6054 York Road, Duncan, British Columbia V9L 5J7, Canada

http://www.connectnorthcowichan.ca/climate-adaptation/maps/climate-hazards-map?reporting=true#marker-112293

2023-07-27 16:23:04 -0700

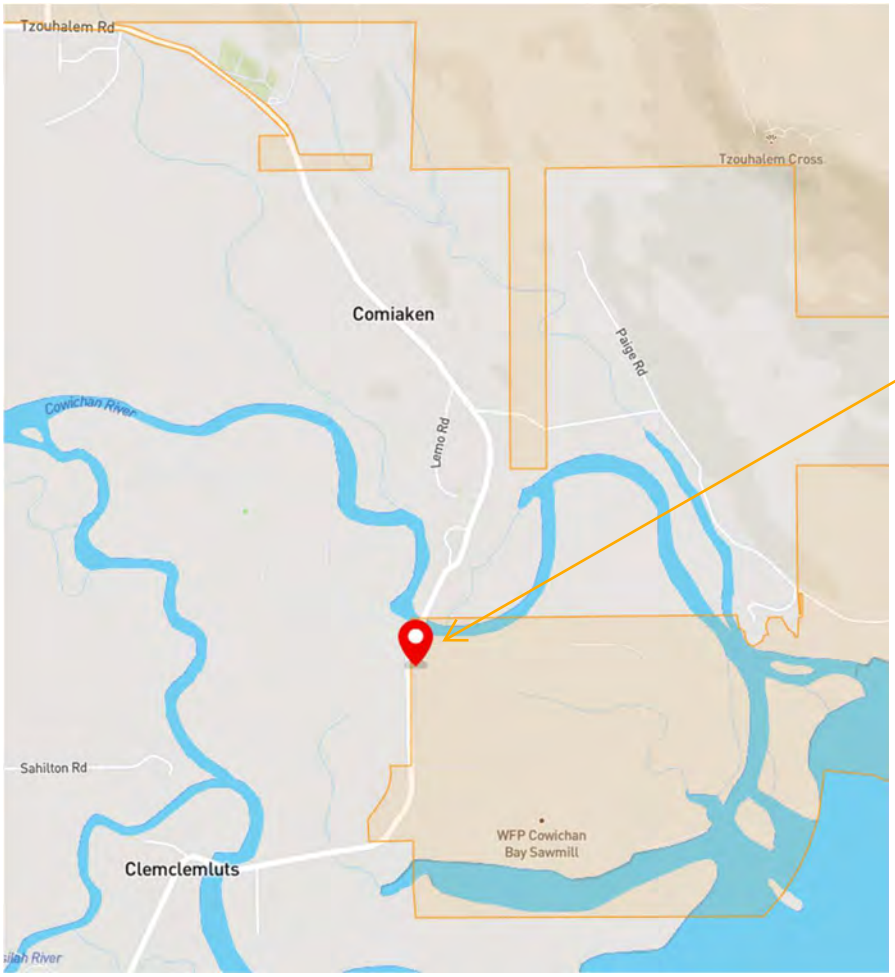
[redacted]

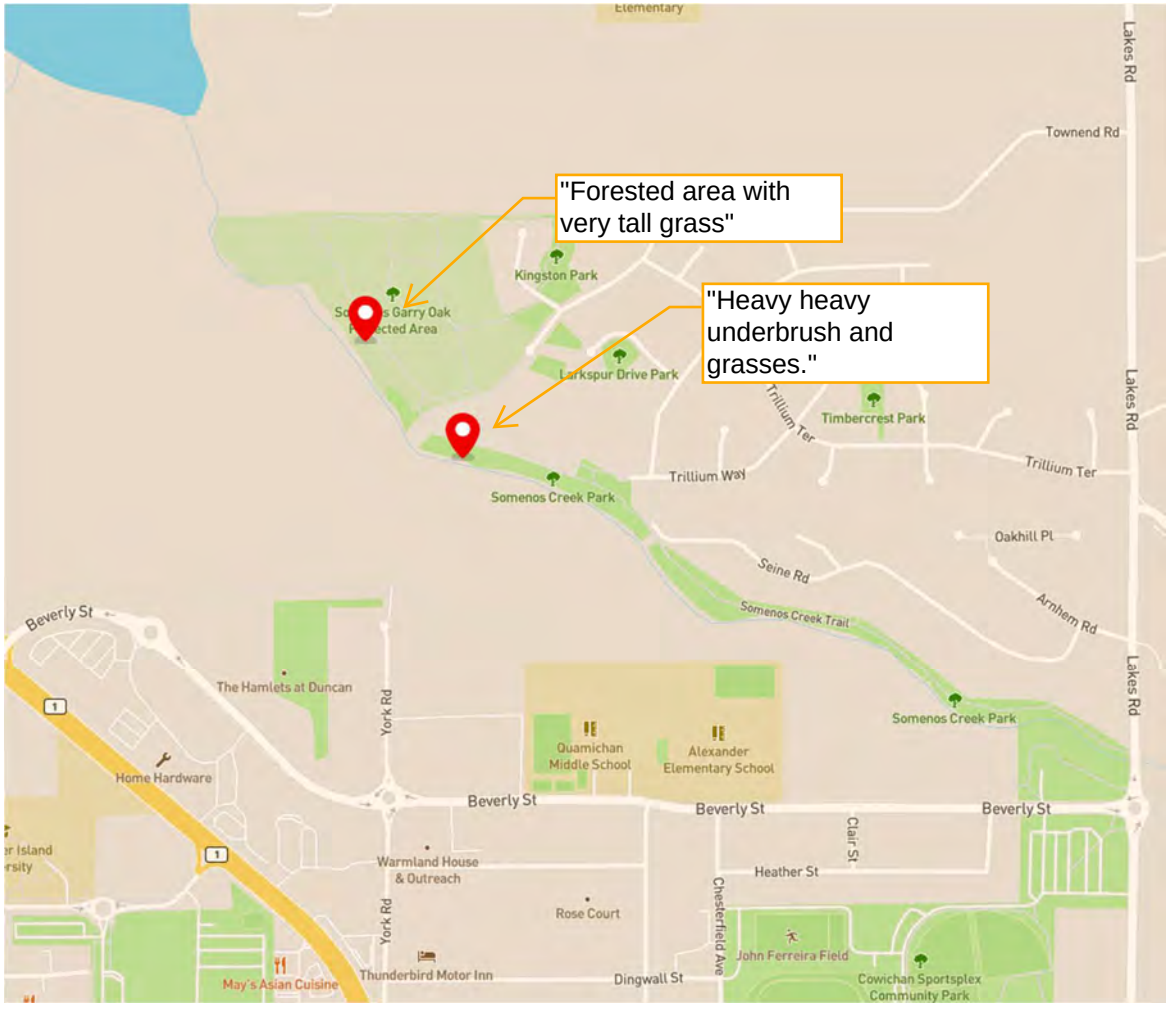
CATEGORY

Marker

Heavy heavy underbrush and grasses.
Address: 6076 York Road, Duncan, British Columbia V9L 5J7, Canada

http://www.connectnorthcowichan.ca/climate-adaptation/maps/climate-hazards-map?reporting=true#marker-112294


Tzouhalem Rd
Tzouhalem Cross
Comiaken
Paige Rd
Cowichan River
Lemo Rd
"Tzouhalem Road flooding"
Sahilton Rd
WFP Cowichan Bay Sawmill
Clemclemluts


Elementary
Lakes Rd
Townend Rd
"Forested area with very tall grass"
Kingston Park
"Heavy heavy underbrush and grasses."
Larkspur Drive Park
Timbercrest Park
Trillium Ter
Trillium Way
Somenos Creek Park
Oakhill Pl
Seine Rd
Somenos Creek Trail
Arnhem Rd
Beverly St
The Hamlets at Duncan
York Rd
Quamichan Middle School
Alexander Elementary School
Home Hardware
Warmland House & Outreach
Rose Court
Heather St
Clair St
Chesterfield Ave
John Ferreira Field
Cowichan Sportsplex Community Park
Thunderbird Motor Inn
Dingwall St
May's Asian Cuisine

APPENDIX C:

'QUESTION AND ANSWER' RESULTS

QANDA

Do you have a question about the Climate Adaptation project?

Visitors 36	Contributors 20	CONTRIBUTIONS 26

Q [redacted]

14 July 23

1) One way is by creating oppportunities and incentives for private landowners to participate in an enhanced Commun ity Wildfire Resiliency Plan (CWRP) and Firesmart activities. 2) what opportunities exist for new buildings to be manda ted to have structures and infrastructure (wiring, etc.) to allow for the addition of solar panels, heat pumps, extra insul ation, etc. 3) also that new builds must be built of fire resistant material (metal roofs and non-combustible siding)? 4) what would it take to have new buildings (especially public buildings such as the RCMP, high school and hospital built using mass timber? These three opportunities have passed us by and the short answer I get is that mass timber is co nsidered too expensive. So, at what point do we put money where our mouths are?

A Publicly Answered

Thank you for your interest in this project. North Cowichan's 2022 Official Community Plan has several actions which are geared towards wildfire resiliency, building requirements and energy efficiency. The planning department is rolling out an implementation plan for the above actions which will be going to council within the next couple of months. For more information on the OCP, please visit https://www.northcowichan.ca/assets/Departments/Planning~and~Land~Use/docs/OCP~Project/OCP_Low.pdf. The Municipality of North Cowichan analyzed its wildfire risk in the 2020 Community Wildfire Protection Plan (CWPP). The Wildfire Mitigation Project was launched in 2021 to respond to several of the Community Wildfire Protection Plan’s rec ommendations. This work will support wildfire resilience through a variety of strategies to proactively reduce wildfire ri sk in North Cowichan. For more information, please visit https://www.northcowichan.ca/EN/main/departments/forestry/ wildfire-mitigation-project.html.The Municipality of North Cowichan requires most new buildings to meet Step 2 of the BC Energy Step Code, as per the Building Bylaw. The BC Energy Step Code serves as a policy pathway towards the Province’s goal that all new buildings must reach a net-zero energy efficiency standard by 2032. For more information about the Province's step code, please visit https://energystepcode.ca/.

QANDA

Do you have a question about the Climate Adaptation project?

Q [redacted]
14 July 23

Are there plans to build upstream catchment facilities for “rainy season” retention of rainfall?

A Publicly Answered

Thank you for showing interest in this project. North Cowichan currently regulates discharge from 3 different reservoir s which collect water during our rainy season.

Q [redacted]
14 July 23

Is there any thoughts of forest irrigation of effluent from the lagoons?

A Publicly Answered

Thank you for your interest in this project. Work has been done in the past to test the feasibility of using sewage lagoo n effluent for forest irrigation. Considerations such as needing a separate treatment facility due to poor water quality, cost, and space are some of the reasons North Cowichan has decided against this option.

Q [redacted]
15 July 23

Why is it that home owners particularly in Maple Bay where drought conditions are extreme, are not obligated to redu ce combustibles around their homes and yards? I have neighbors with tall grasses, broom weeds, trees with dead gra ss growing into them. These are fire hazard not only to those neighbors house but all this around. If fire started here with the prevailing winds up the hill our area could be devastated. When will home owners be made to clean up their yards? Fire Chief Kelly Paddle informed our Block Watch group recently that call outs on average have increased fro m 40 annually to 140. Home owners need to be informed directly by mail to become responsible and reduce fire risk.

A Publicly Answered

Thank you for your interest in this project. The property you have described would be considered a "Nuisance Propert y" as per North Cowichan's Nuisance and Abatement bylaw. To learn more about the bylaw and how to report this pro perty, please visit https://www.northcowichan.ca/EN/main/departments/bylaw/nuisance-properties.html

QANDA

Do you have a question about the Climate Adaptation project?

Q [redacted]
16 July 23

Why are golf courses and municipal flower beds excluded from restrictions. We live behind [redacted] and observe them spraying water every where in the morning while we catch our shower and dish water for our plan ts? It looks like a huge waste

A Publicly Answered

Thank you for your interest in this project. Golf courses in North Cowichan are not connected to municipal water for th e purposes of irrigation. Golf courses have their own private wells that they use for irrigation. The wells are licensed a nd regulated by the Province

Q [redacted]
17 July 23

Hi. Can more be done to encourage citizens to save water when it is plentiful? Subsidize larger rain tanks, for exampl e.

A Publicly Answered

Thank you for your interest in this project. North Cowichan is always looking for ways to better ways to preserve our w ater supplies and water system infrastructure. For example, we have encouraged our residents to fix leaks in toilets b y providing leak detection tablets. We have also partnered with the CVRD in the past to provide free irrigation worksh ops for residents to improve the efficiency of their outdoor watering.Larger cisterns to collect rainwater in the wetter m onths provide some potential for reducing the demand on our water system and staff hope to look into this in the futur e.

QANDA

Do you have a question about the Climate Adaptation project?

Q [redacted]

17 July 23

I want to know if you have included the message that adaption is only a short-term strategy to prevent some of the da mage that will come from climate change; and therefore that the most vital action is to replace fossil fuels with renewa ble energy systems?

A Publicly Answered

Thank you for your interest in this project, the adaption plan has not been developed yet as we are still in the risk ass essment phase. North Cowichan updated their Climate Action and Energy Plan in 2022, which includes information on renewable energy systems and other actions we will be implementing to reduce greenhouse gas emissions. To vie w the updated CAEP, please visit https://www.northcowichan.ca/assets/Departments/Engineering/PDFs/220121_North%20Cowichan%20CAEP%20Upda te%20ISSUED.pdf

Q [redacted]

19 July 23

Does the cvrd area in which I live share this group or do we have another conservation group?

A Publicly Answered

Thank you for your interest in this project. This project is specific to North Cowichan but does build on work previously done by the CVRD. For more information on the work already completed by the CVRD in regards to climate change, p lease visit https://www.cvrd.ca/2101/Climate-Change

QANDA

Do you have a question about the Climate Adaptation project?

Q [redacted]
19 July 23

Will you implement rebates for water cisterns, soil improvements, irrigation updates etc like Nanaimo RDN has? If not, why not? Financials are a huge barrier to adapting and changing.

A Publicly Answered

Thank you for your interest in this project. We are still in the initial risk and vulnerability assessment phase of this proj ect, where we are collecting the information required to make informed decisions on how we can best mitigate those ri sk and vulnerabilities related to climate change. To stay up to date on this project, make sure to sign up for updates u sing the widget in the top right corner of this webpage.

Q [redacted]
23 July 23

My biggest concern about these projects is cost to taxpayers. There should be a cost-benefit analysis done before an d changes are made. What is being done to ensure taxes are not increased with this project?

A Publicly Answered

Thank you for showing interest in this project. The Municipality of North Cowichan has completed a high-level financial analysis for various low carbon-scenarios in the 2022 Climate Action and Energy Plan (CAEP). We will be us ing the information from the cost analysis in combination with the information we are currently collecting during the ris k assessment phase of this project to create the Climate Adaptation Strategy. For more information on the 2022 CAE P, please visit https://www.northcowichan.ca/EN/main/departments/environmental-services/climate-action-and-energy-plan.html

QANDA

Do you have a question about the Climate Adaptation project?

Q [redacted]

25 July 23

what are the extreme weather events you are referring too? all I have seen is extreme fear mongering.

A Publicly Answered

Thanks for showing interest in this project. We are referring to the longer and hotter summers, such as the heat dome in 2021, that we've been experiencing. This coincides with the increased frequency and intensity of forest fires in Briti sh Columbia, this year being the worst wildfire season the province has experienced. Also, there's been an increase i n winter storm events the valley has experienced, such as the atmospheric river, which caused severe flooding.These events have indicated the need for North Cowichan to be better adapt to climate change. Hence this project, which wi ll use information collected throughout the current Risk and Vulnerabilities Assessment to create an effective Climate Change Adaptation Strategy.

Q [redacted]

25 July 23

Will you be offering incentives for decreasing lawn, planting trees on our properties? Also asked but support for grey water diversion to water planted trees etc ? Other countries have been doing this for decades - help in learning how b est to adapt our homes to this might be useful.

A Publicly Answered

Thank you for your question. We are currently in the initial risk and vulnerability assessment phase of this project, where we are collecting the information required to make informed decisions on how we can best mitigate risks and v ulnerabilities related to climate change. Suggestions from public engagement will be considered during the next phas e of the project, when the Climate Adaptation Strategy is created.To stay up to date on this project, make sure to sign up for updates using the widget in the top right corner of this webpage.

QANDA

Do you have a question about the Climate Adaptation project?

Q [redacted]
27 July 23

What is the municipality doing to accelerate the construction of taller weir on Lake Cowichan?

A Publicly Answered

Thank you for your interest in this project. A need to update or redesign the weir due to lower summer flows on the Co wichan River was identified in the early 2000s and more recently a partnership was formed by the Cowichan Valley R egional District, Cowichan Tribes, the Cowichan Watershed Board, and Catalyst Paper to review these needs. While North Cowichan does not have a direct role in the construction and licensing of a new weir, support is provided to the CVRD in their efforts to increase water storage opportunities. More information about this work can be found at cowic hanlakeweir.ca taken directly from our website

Q [redacted]
27 July 23

What is the municipality doing to accelerate the conclusion of the Forestry Review, so that our forest practices can be updated to reduce fire risk and improve multi-use of Mt Prevost and Mt Sicker, and enhance biodiversity?

A Publicly Answered

Thanks for your question. Municipal staff continue to engage with the Quw'utsun Nation about the Municipal Forestry Review, respecting the commitments made in the signed Memorandum of Understanding. While engagement with the Quw'utsun Nation is on-going, staff continue to work with the UBC Partnership Group who will present the final draft s cenarios to Council for decision which is anticipated to take place in the fall of 2023.

QANDA

Do you have a question about the Climate Adaptation project?

Q [redacted]
27 July 23

What is the municipality doing to accelerate the improvement of land use practices by developers so that large tracts of greenfield lands are not clearcut and left barren, like has occurred at Glenn Fields property and then corner of Hwy 1 and Herd Rd, and in the properties?

A Publicly Answered

Thank you for your question. North Cowichan planning staff are currently working on implementing the recent updates made to the Official Community Plan (OCP). Part of these updates contain enhanced environmental considerations fo r future developments. For more information on the 2022 OCP, please visit https://www.northcowichan.ca/EN/main/departments/planning-development/official-community-plan.html The Biodiversity Protection Policy will also be looking at how to protect and restore important ecological areas throughout North Cowichan. This project is currently in the policy creation phase, for more information on this visit https://www.co nnectnorthcowichan.ca/biodiversity

Q [redacted]
27 July 23

You have still not answered my question about the destruction of habitat and forests along Askew Creek in Chemainu s. The developer is still cutting down trees and laying waste to this beautiful Hermit's Trail that ran from one end of Ch emainus to the other. The trees are cut down and now rotting. Roots are hanging out on a hillside that is very precario usly being dug out with houses, a church and a playing field on top. This is a very dangerous situation and I can't believe that North Cowichan Municipality approved this. The housing development on River Road will be extended all the way down to Chemainus Road, with no consideration whatsoever to the deforestation and destruction of natural w ind blocks and water retention systems. When the next atmospheric river hits, and it will, the devastation of Chemainu s roads, businesses and homes will be terrible. Have a look at the clear cutting won't you? That is the last thing we ne ed.

A Publicly Answered

Thank you for your interest in this project. Development of the Artisan’s Village property is guided by the comprehensi ve development plan (CDP) approved by North Cowichan’s Council in 2015 Chemainus CDP.pdf (northcowichan.ca). The CDP requires land on both sides of Askew Creek to be dedicated as park and will protect much of the area wher e the Hermit Trails are located. It also allows a considerable amount of housing and other development on the propert y and some of that development is now occurring. The road connection from River Road to Elm Street via Askew Cre ek Drive and the Artisan’s Village property is identified in the CDP and is intended to improve connectivity within Che mainus.

QANDA

Do you have a question about the Climate Adaptation project?

Q [redacted]
27 July 23

Has North Cowichan declared a Climate Emergency?

A Publicly Answered

Thank you for your interest in this project. North Cowichan's Council acknowledged that there's a climate emergency on July 17, 2019.

Q [redacted]
27 July 23

Is North Cowichan going to adopt NZEV Bylaw 24.06 of the BC Transportation Act?

A Publicly Answered

Thank you for your question. North Cowichan is in the process of developing a Master Transportation Plan (MTP). Pe nding Council endorsement of the Plan, the MTP report recommends additional study to determine the appropriateness of NZEVs for North Cowichan.

Q [redacted]
28 July 23

Not a question so much as a "share". Friends in the Peterborough area of Ontario were recently offered from their.mu nicipality, the opportunity to purchase and plant native trees. Very reasonable cost. Likely subsidized...here perhaps WFP.or.some such would partner? Perhaps all 3 municipals.governments could work together on a shared project of t his nature. There was a limit of 2 or 3 per household, of course not every household.has room for trees but what a gr eat way to help citizens feel as though they can be part of the solution!!!

A Publicly Answered

Thank you for sharing this information. North Cowichan is still in the assessment phase of the Climate Adaptation Strategy project, where we're collecting information to help us make informed decisions while creating the strategy in the next phase. As part of this, considerations will be made to information we gather from public engagement.

QANDA

Do you have a question about the Climate Adaptation project?

Q [redacted]
28 July 23

What did the district base the claim that we are in a "Climate Crisis" on? From what I can see it was a single report by a foreign group. The very premise that we even need a "Climate Action Project" is highly questionable and appears to be little more than lip service to a UN agenda. You are asking the good people of North Cowichan to accept as fact an assertion that has no scientific backing. Before you even think of forcing "Environmental Policies" on the people of Nor th Cowichan, you have a legal and moral responsibility to use verifiable fact to base policies on, not the dictates of an international body that has no authority here. You need to engage in discussion with the community around this entire claim that you need to waste this money on a globalist agenda. This is not just the ravings of "some nut job", the conc erns I raise here are held by a lot of people in North Cowichan and your council is point blank refusing to even discus s the matter. This is not acceptable by public servants and you need to engage with us and do what we, your employe rs want, not some shadowy international body of highly dubious ethical standing. Local concern is that you are pushin g a nonsense agenda that benefits not the people of North Cowichan and I dare you to debate the issue. I definitely re quire some response to my concern. Sincerely Paul O'Rorke

A Publicly Answered

Thank you for your input in regard to this project. North Cowichan's Council discussed and acknowledged that there's a climate emergency on July 17, 2019.

Q [redacted]
29 July 23

Why is it OK to water golf courses, school grounds and grave yards

A Publicly Answered

Thanks for your interest in water restrictions. As part of North Cowichan’s ongoing response to the climate crisis, we are continually reviewing our municipal plans, operations and infrastructure to be more resilient to climate hazards an d we appreciate your question for opportunities to address this.Golf courses in North Cowichan are not connected to municipal water for the purposes of irrigation. Golf courses have their own private wells and/or ponds that they use for irrigation. The wells are licensed and regulated by the Province.North Cowichan's community spaces are for all reside nts to enjoy and lack of watering can cause significant financial impacts. School and municipal playing fields are often sand-based and require regular watering. For that reason, they are exempt from sprinkling regulations, with reduced watering and other conservation methods.North Cowichan’s Parks department is currently reducing and eliminating irr igation to turf where possible and transitioning to drip irrigation with respect to water restriction stages and installing tr ee watering bags where necessary to protect much needed shade trees and trees planted within the last three years.

QANDA

Do you have a question about the Climate Adaptation project?

Q [redacted]

03 August 23

North Cowichan depends on aquifers for much of its water supply. Given the state of perpetual water supply deficit, ar e the aquifer system levels dropping on an annual basis? If so, how can North Cowichan justify approval of some of t he major housing projects under consideration? Is the water for these projects magically going to appear somehow? Are future residential developments going to prohibit lawns, or require grey water recovery? Larry White.

A Publicly Answered

Thank you for your interest in this project. North Cowichan’s three water systems predominantly rely on aquifers for th eir water supply and our aquifers are healthy. For more information about North Cowichan's water system, please visit www.northcowichan.ca/water.

QANDA

Do you have a question about the Climate Adaptation project?

Q [redacted]
07 August 23

Given the increasing fire risks what is the Municipality's plan regarding mitigating these risks particularly in residential areas. Is there a plan to assess dead trees and use selective logging. Do the current bylaws allow for flexibility to log even in riparian zones if the risk is high- also with soil erosion thru ground water levels decreasing, more trees will fall as witnessed recently in the Chemainus area. The Municipality will need to adapt to the changes by changing current bylaws

A Publicly Answered

Thank you for your questions. The Municipality of North Cowichan analyzed its wildfire risk in the 2020 Community Wildfire Protection Plan (CWPP). The Wildfire Mitigation Project was launched in 2021 to respond to several of the Community Wildfire Protection Plan's recommendations. This work will support wildfire resilience through a variety of strategies to proactively reduce wildfire risk in North Cowichan. For more information, please visit https://www.northcowichan.ca/EN/main/departments/forestry/wildfire-mitigation-project.html.The removal or modification of hazardous trees within riparian areas is regulated by the Provincial Riparian Areas Protection Regulation (https://www2.gov.bc.ca/gov/content/environment/plants-animals-ecosystems/fish/aquatic-habitat-management/riparian-areas-regulation) as well as the Municipalities Development Permit Guidelines. Exemptions for the removal and modification of hazardous trees do exist, but are subject to certain conditions that are project specific.

Q [redacted]
07 August 23

Given the continued wildfire seasons that are on the increase does the Municipality have a plan to install Air Quality monitors in the region so residents can make educated decisions regarding activities and increase awareness regarding air quality

A Publicly Answered

Thank you for showing interest in this project. The provincial government has air quality monitoring stations located throughout the island. To view daily air quality for North Cowichan, please visit https://www.env.gov.bc.ca/epd/bcairquality/readings/find-stations-map.html

QANDA

Do you have a question about the Climate Adaptation project?

Q [redacted]
07 August 23

Air quality is life essential and important to everyone. Even with some clear bylaws there continues to be open burning in rural and more urban areas with little or no consequence for people who continue flaunt the guidelines- wh en is the municipality going to take the matter more seriously

A Publicly Answered

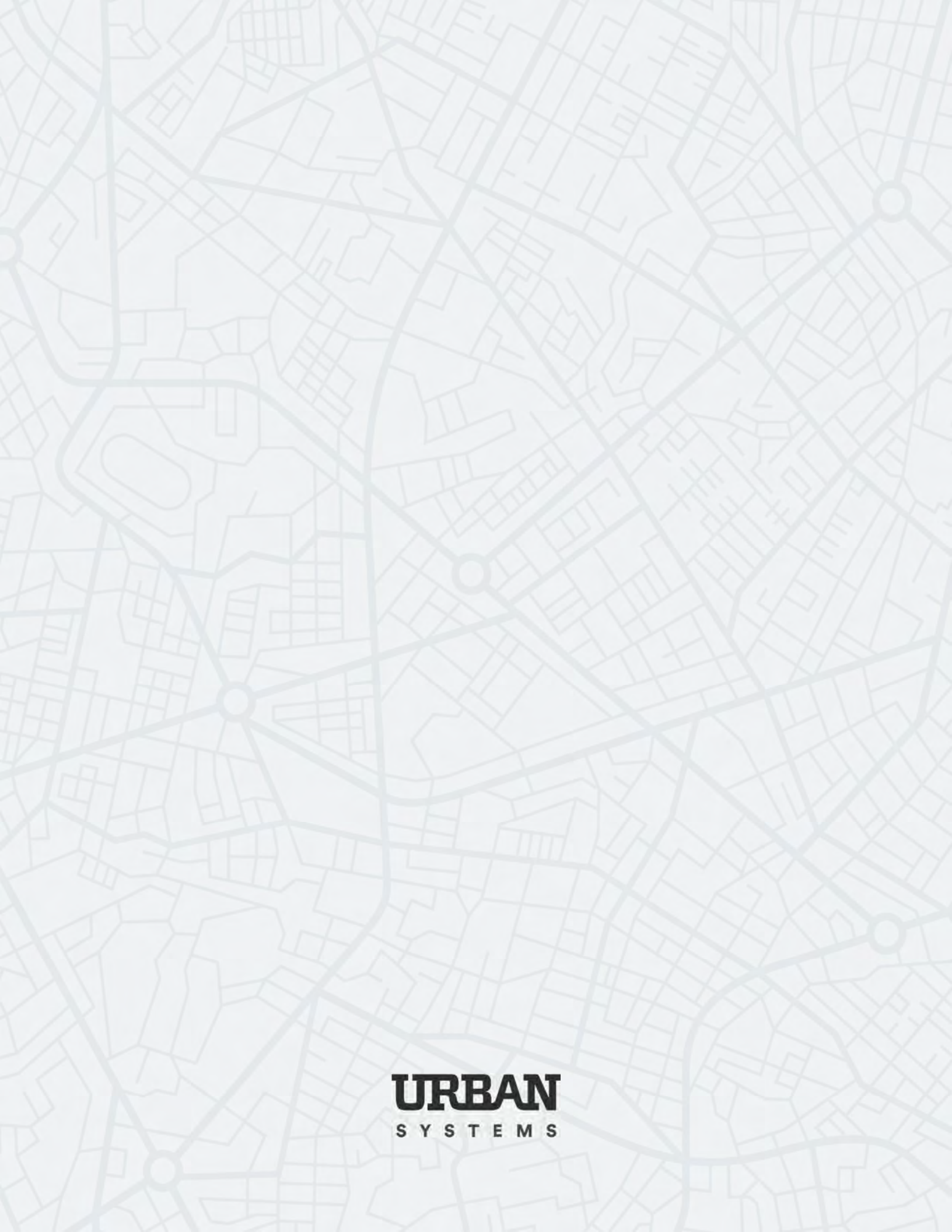
Thanks for your interest in the Climate Adaptation project. North Cowichan's air quality meets provincial guidelines. O ccasionally there are exceedances of the guidelines for particulate matter from wildfire events in the summer, for more information please visit www.northcowicha.ca/airquality. If you'd like to report a bylaw violation, please visit https://ww w.northcowichan.ca/EN/main/departments/bylaw/report-a-bylaw-violation.html

Q [redacted]
13 August 23

Does North Cowichan have a policy on naturalized/drought resistant lawns? I'm interested in rewilding my lawn with n ative, pollinator-friendly, drought resistant plants but I'm concerned that this may be against North Cowichan's bylaws (which seem somewhat vague). I plan to keep invasive species and noxious weeds under control but hope to let the n ative plants grow out, to an reasonable extent. Is it likely that this will get my home flagged as a nuisance property if t his is done intentionally? Is there a more detailed policy, or better, a set of guidelines for doing this? Thank you for tak ing the climate crisis seriously!

A Publicly Answered

Thank you for your interest in this project! We encourage residents to plant drought resistant, native species to conser ve water. Allowing native plants to flourish on your property is also beneficial for biodiversity and water conservation. As long as the plants are not invasive, interfering with any surrounding infrastructure or disrupting neighbouring prope rties, these plants wouldn't make your property a "nuisance property". For more information on drought tolerant plantin gs, please visit https://www.northcowichan.ca/EN/main/departments/environmental-services/native-plants/Native_Drought_Tolerant_Gardening.html


URBAN
SYSTEMS