



Metro Vancouver

LSCR User Survey 2022-23 Edition

Measuring Trends in Visitor Use and Satisfaction

AUGUST 2023



LEFS
ASSOCIATES



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SERVICES AND SOLUTIONS FOR A LIVABLE REGION

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Introduction

Set in the Seymour River valley, the 5,668-hectare Lower Seymour Conservation Reserve (LSCR) contains essential water supply infrastructure, diverse ecosystems, and over 100 km of recreation trails. The LSCR is managed by Metro Vancouver's Water Services department to maintain the reserve's role in the drinking water system, as well as its recreation, education, and environmental values. Over 600,000 people a year visit the LSCR to walk, hike, horseback ride, and bike its trails, fish in Rice Lake, cycle the Seymour Valley Greenway, attend educational programming, and kayak and swim in the Seymour River.

Understanding visitor use patterns is essential to making sound management decisions. The LSCR has conducted intercept surveys of its visitors in 1987, 1993-1994, 1996, 2000, 2004-2005, and 2016-2017. This year's survey builds on the format of the 2004 and 2016 editions, providing a view of changing trail uses over time. Regular tracking of visitor use patterns supports ongoing management decisions and can identify new issues and concerns.

This report summarizes the survey responses from a one-year sample period of July 2022 through June 2023. The aim of the report is to inform LSCR staff on emerging visitor use trends, and to support the LSCR's adaptive management approach which requires monitoring for change over time to guide and adapt management strategies.

Key takeaways from the survey include:

- **Activities:** The top three activities in 2022/2023 were **walking** (80%), **hiking** (69%), and **dog walking** (44%).
 - The only activities to increase by more than one percentage from 2017 to 2022 were **swimming** (+9%) and **dog walking** (+7%).
- **Frequency of visits:** Visitation to the LSCR is consistent and frequent throughout the year, with at least 60% of respondents come to the LSCR either **once per week or daily through all seasons**. Use is highest in the summer, with 40% of respondents visiting the LSCR daily.
- **User conflicts:** Conflicts with **dogs** were the highest, with 20% reporting sometimes having a conflict and 6% frequently having a conflict.
 - Fewer users report never having conflicts than in 2017 and 2005. The percentage of users reporting conflicts frequently or always is similar to past surveys.
- **Why people visit the LSCR:** Nearly all respondents come to the LSCR to get **exercise** (96%) and to **experience nature** (93%).
- **Maintenance:** Visitors are satisfied with the levels of maintenance.
 - 88% of respondents ranked the **trail conditions** as either **very good** (53%) or **good** (36%).
 - 89% of respondents ranked the **general cleanliness** of the LSCR's facilities as either **very good** (53%) or **good** (36%).

- **Trails:**

- More than two-thirds (68%) of respondents prefer **front-country trail settings** to backcountry trail settings (32%). Fewer respondents preferred a backcountry setting in 2022/2023 (32%) compared to 2017 (44%).
- The most preferred trail types are **multi-use** (47%) and **hiking-only** (42%).
- 18% of respondents seek out **unmarked/unsanctioned trails**. The top two responses why were 1) to find quieter trails with fewer people, and 2) for exploration and to add variety.

- **Crowding:** most pronounced in the summer, with 22% of respondents indicating they have felt very crowded during that season.

- **Wayfinding:**

- 90% of respondents think there is sufficient information to find their way in the LSCR.
- Third-party websites and apps (All Trails 33%, Google Maps 32%, and Trail Forks 27%) are the most popular tools for wayfinding and route planning

- **Residence:** The majority of visitors live in the District of North Vancouver (55%)

- **Safety:** 18% of respondents indicated they do not feel safe while visiting the LSCR. The top safety concern was wild animal encounters (44 comments).

- **Visitors appreciate the LSCR:** When asked for any additional comments, the top response was love and appreciation for the LSCR as beautiful place with great trails (64 comments).

1.1 Methodology

The LSCR User Survey was designed to capture a representative sample of visitors to equip LSCR staff with objective information about visitor use and satisfaction to inform management decisions.

Surveys were conducted by LSCR staff at five locations throughout the LSCR (Figure 1). The locations are consistent with the 2016 survey locations, which were developed in discussions with LSCR staff to capture users at high-use locations across all major areas of the reserve. The survey schedule was developed using a random sampling of days of the week, times, and locations. There were 36 survey events conducted out of a planned 40 from July 2022 to June 2023. Cancellations were due to weather and staffing challenges.

During survey events, LSCR surveyors were identified with a staff uniform, project signage, and a branded pop-up tent. Surveyors invited visitors to take the 38-question survey on a tablet in the moment, or to take a QR code to complete the survey from home. Surveyors also tallied the number of park users who passed by but declined to take the survey in a logbook (Appendix A).

The 2022/2023 survey was the first LSCR intercept survey that respondents have completed on a web-based platform. The survey was hosted on Metro Vancouver's subscription online engagement platform, Civil Space. The change from paper survey necessitated the alteration of certain questions from 2016 that had a format in the paper copy which was incompatible with the functions offered by Civil Space. Several 2016 questions were edited for clarity, to reflect emerging trends such as e-bikes, or removed entirely. Appendix B includes a transcript of the survey, and Appendix C contains a table comparing the 2022, 2016, and 2004 survey questions. Overall, LEES and LSCR staff worked to balance making improvements to the survey with maintaining consistency to better enable comparisons over time.

A statistical analysis has been completed for each question. For 2022 questions responses, assuming that the respondents are a random sample of the population that uses the LSCR, a measure of uncertainty about the percentage can also be computed, known as the standard error (SE). The SE measures the degree to which the percentage could change just by random chance if a new sample of the same size were chosen. In particular, the percentages are accurate to within $2 \times SE$

percentage points, 19 times out of 20. For example, if a particular option was chosen 48% (SE 2 percentage points), then these results could change by up to +/- 4 percentage points, 19 times out of 20. For comparisons over time, P-values were calculated. P-values reported on plots are testing hypothesis of no change in proportions over time. Values typically <.05 indicate evidence a change in at least one of the proportions on the graph.

1.2 Survey Context

The User Survey is one of several data sources, including trail counters, internal logs, and location data, that the LSCR can draw on to inform management decision making. Each source has limitations, which makes the use of multiple references necessary. For example, LSCR staff working intercept surveys have observed that older visitors are much more likely to stop and take the survey than younger visitors, and that people on foot are more likely to stop and take the survey than people on bikes. Trail counters placed throughout the reserve quantify trail use, distinguish between bikes and foot traffic, and capture all ages, but do not distinguish between hikers, trail runners, and dog walkers, or provide insights on why people are there. Location data services, such as Strava Metro, provide detailed quantitative data, but may underrepresent certain demographics and activities. Incident logs can reveal patterns when coded and tallied, but minor conflicts that still impact visitor experience are often unreported. Each source is informative, but all have limitations and are most valuable when viewed together.

Insights from the User Survey and other sources should also be viewed through the lens of broader trends in outdoor recreation, both nationally and across the North Shore. An increase in dog walking in the LSCR, for example, is consistent with trends in other green spaces, whereas an increase in swimming in the LSCR may be the result of a newly formalized river access. Awareness of broader trends, such as a shift towards unstructured, individual recreation activities, and demographic changes, such as a growing and aging regional population, bring necessary context to the survey results.

1.3 Demographics

The last two Canadian Census of Population surveys, conducted in 2016 and 2021, align well with the recent LSCR Intercept Survey to show demographic changes during that period. The censuses show a growing population in the District of North Vancouver and a quickly growing population in the Vancouver Metropolitan Area. The censuses also show that the percentage of the population over the age of 65 is increasing in both areas.

	District of North Vancouver			Vancouver Metropolitan Area		
	2016	2021	% change	2016	2021	% change
Population	85,649	88,168	+2.9%	2,463,431	2,642,825	+7.3%
Age profile (% distribution of population)						
0 to 14 years	17.1%	16.5%	-0.6%	14.7%	14.1%	-0.6%
15 to 64 years	65.3%	64.3%	-1.0%	69.6%	68.5%	-1.1%
65 years +	17.5%	19.2%	+1.7%	15.7%	17.4%	+1.7%

The trend of a growing and aging population is expected to continue for several decades, with Metro Vancouver projecting more than one million additional residents over the next 30 years, and an increase in the percent of seniors from 17% to 22% seniors.¹

¹ Metro Vancouver Regional District. 2022. "Metro 2050." <https://metrovancover.org/services/regional-planning/Documents/metro-2050.pdf>

1.4 Trend in Outdoor Recreation

Many trends in parks, recreation, and health point to an increasingly important role for the LSCR, and mirror the findings of the User Survey. Five relevant trends are described below:

- **Trail use is gaining in popularity.** In a 2022 survey of 30 Canadian cities, 83% of cities reported that interest in multi-use trails increased.² Trails provide many benefits, from recreation to the opportunity for people to improve and maintain their physical and mental well-being through exercise and exposure to nature. Having access to trails helps encourages physical activity.³
- **The COVID-19 pandemic increased the use and appreciation of parks and green spaces for both recreation and health benefits.** The Canadian organization Park People conducted a series of annual surveys during the pandemic to capture findings related to park use and operation during COVID-19. In their 2020 survey, almost three-quarters (70%) of survey respondents said their appreciation for parks and green spaces increased during COVID-19.⁴ In their 2022 survey, 91% of city resident respondents indicated parks have had a positive impact on their connection to nature during the pandemic, up from 83% in 2021. In 2022, 72% of cities reported that they had to address overuse of natural areas and/or trails during the pandemic due to increased visitors and use.
- **Parks and recreation are important to seniors.** Elders who live closer to walkable green spaces increase their life expectancy, and adults who take short day trips to the woods boost their immune systems for at least 7 days.⁵ In the US, 9 in 10 parks

2 Park People. 2022. "Canadian City Parks Report." <https://ccpr.parkpeople.ca/2022/>

3 Outdoor Recreation Council of BC. 2021. "17 Trail Benefits for British Columbians: A Case for the Outdoors." June. <https://www.orcbc.ca/wp-content/uploads/2021/05/17-benefits-of-trails-for-British-Columbians.pdf>

4 Park People. 2020. "COVID-19 and Parks: Highlights from our National Surveys." <https://parkpeople.ca/blog/covid-19-and-parks-highlights-from-our-national-surveys/>

5 Park Prescriptions. n.d. Why Nature? Accessed August 2023. <https://www.parkprescriptions.ca/en/whynature#For-Adults>

and recreation agencies dedicate facilities, activities and programming to older adults.⁶

- **There is strong and increasing interest in dog walking in green spaces.** In a 2022 survey of 30 Canadian cities, 93% of cities said interest in off-leash dog areas increased.⁷
- **Climate change is highlighting the importance of parks and green spaces, both as places to protect natural systems and as places of respite for humans.** Many agencies, including Metro Vancouver and BC Parks, are embracing this role.^{8,9}

1.5 Facility Improvements at the LSCR

Changes to LSCR facilities, such as new or improved amenities, have the potential to impact visitor use patterns. Since 2016, the following improvements have been made at the LSCR as it implements its Management Plan goals and responds to natural disturbances:

- Construction of the Seymour Suspension Bridge in 2018
- Upgrades to multi-use trails such as Coho Trail
- Upgrades to Dog Mountain hiking trail
- Upgrades to mountain-bike primary trails such as CBC
- Rehabilitation of washed-out sections of Fisherman's trail
- Construction of a river access south of the suspension bridge

6 National Recreation and Park Association. 2017. "Healthy Aging in Parks Survey." <https://www.nrpa.org/publications-research/research-papers/healthy-aging-in-parks-survey-results/>

7 Park People. 2022. "Canadian City Parks Report." <https://ccpr.parkpeople.ca/2022/>

8 BC Parks. n.d. Climate Change Accessed August 2023. <https://bcparks.ca/conservation/climate-change/#the-opportunity>

9 Metro Vancouver Regional District. 2022. "Metro 2050." <https://metrovanancouver.org/services/regional-planning/Documents/metro-2050.pdf>

1.6 Management Implications

Survey findings help support, raise questions about, and highlight gaps in the goals, strategies, actions, and recommendations in the LSCR's 2022 Management Plan and 2016 Trails Strategic Plan (TSP). The User Survey is a tool for monitoring the implementation of the LSCR's goals and objectives and evaluating their relevance over time. The following topics are some of the key ways that the survey findings relate to the management documents:

- The high number of respondents indicating they come to the LSCR to get exercise (96%) and to experience nature (93%) speaks to the **continued relevance of the LSCR's management goals for recreation and ecological health**.
- Conversely, the low number of respondents indicating that they come to the LSCR to learn about water supply management does not raise questions about the relevance of the LSCR's primary goal of maintaining water infrastructure, as that is an essential service (and learning about it is not an activity that needs to occur on a regular basis in the way recreation does). The number of respondents with very little awareness (23%), no awareness (9%), or some awareness (42%) of the LSCR's role in the drinking water system suggest that there is **an opportunity to continue to improve public understanding of the water system through outreach and education efforts**.
- Management of dog walking in the LSCR is informed by Metro Vancouver's Regional Parks Best Management Practice for Dogs, which prioritizes visitor and wildlife safety. The **importance of dog management practices** is highlighted by the findings that dog walking is the second fastest growing activity since 2017, conflicts with dogs are the largest source of conflicts between users, and dog waste is the most cited cleanliness issue. The LSCR's adaptive management approach supports continued monitoring of this topic, as well as review and analysis of current strategies.
- Swimming experienced the largest increase in participation by percentage since 2017. This activity is not explicitly addressed in LSCR guiding documents, though it seems to fall under the guiding principle of supporting recreation activities that depend on unique landscapes while managing environmental impacts. As it increases in popularity, it may be necessary to **evaluate the impacts and safety of swimming and take measures to minimize impacts as necessary**.

- The finding that nearly half of respondents would like to see additional trail etiquette/leave-no-trace programs can be used to inform education and stewardship strategies.
- Unsanctioned trails impact sensitive ecosystems and wayfinding. The finding that 18% of respondents seek out unmarked/unsanctioned trails can be used to help define the scope of the challenge with these trails. The findings on why respondents use unsanctioned trails can help inform management responses including cohesive trail network strategies and education and outreach efforts.
- The TSP contains recommendations to explore the feasibility of backcountry routes. A decline in both the preference for backcountry trails and the desire for improved access to backcountry trails may warrant a re-evaluation of the priority rankings of these recommendations. Conversely, desire for quiet, less crowded, and more varied trails was found to be a key reason for unsanctioned trail use. This suggests that enhanced backcountry access could help address unsanctioned trail use and/or construction.

LOWER SEYMOUR CONSERVATION RESERVE INSET

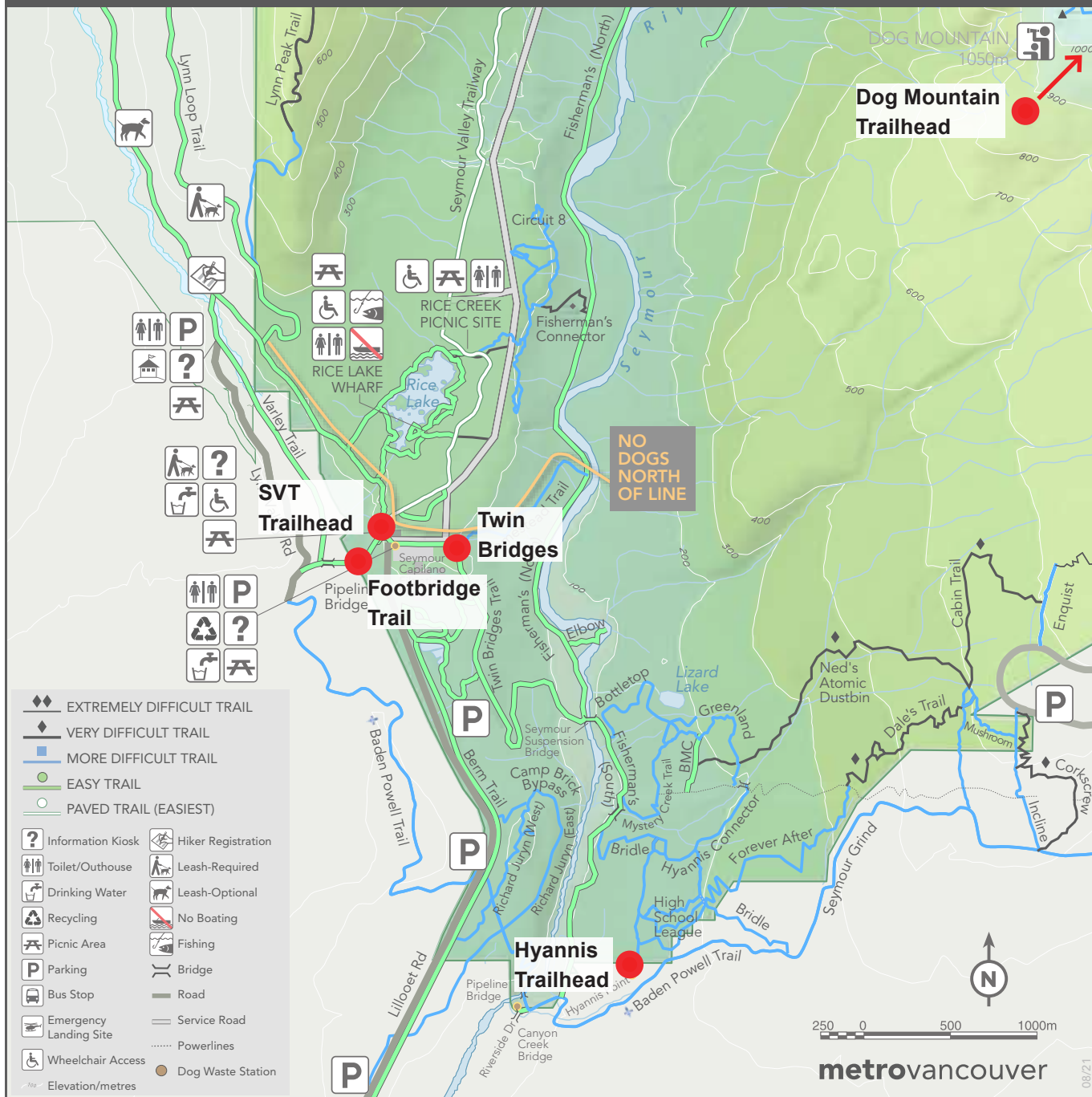


Figure 1. Intercept Survey Locations



2 Survey Results



Survey Log

Surveyors recorded the number and type of passersby in a log at each survey event. The table below shows the total tallies for each category from July 2022 through July 2023. Appendix A contains the full log results from each survey event.

Trail Users	Total #
On foot	4216
Cyclists	762
Other wheeled modes	19
Parties	928
Dogs	996
Total # people using trail	5149

Survey Invitations	Total #
Completed surveys on site	165
Committed to take survey online	1285
Previously taken survey this year	88
Declined to take the survey	368
Total # invited to take the survey	1773

Survey Responses	Total #
Completed surveys on site	165
Completed surveys online	374
Total # completed surveys	539



"I love the LSCR.
It has something
to offer in every
season. It's nice
and cool in the
summer. The trees
protect us from
the rain in the
other seasons."

Section 1. Recreational Activities

Activities

Question 2: Indicate the activities that you do in the LSCR.
Respondents were able to choose multiple activities so the percentages may be larger than 100%

Response	#	%
Walking	394	80
Hiking	341	69
Dog Walking	216	44
Trail Running	149	30
Nature Appreciation E G Birdwatching Wildlife Tree Viewing	148	30
Mountain Biking	139	28
Road Biking	129	26
Swimming	108	22
Gravel Biking	71	14
E Road Biking	29	6
Fishing	24	5
Other Please Specify	22	4
E Mountain Biking	20	4
Kayaking	9	2
Geocaching	7	1
Orienteering	7	1
Wheelchair Accessible Travel	3	1
Horse Back Riding	2	0
Longboarding	1	0

Response	#	%
491 respondents		

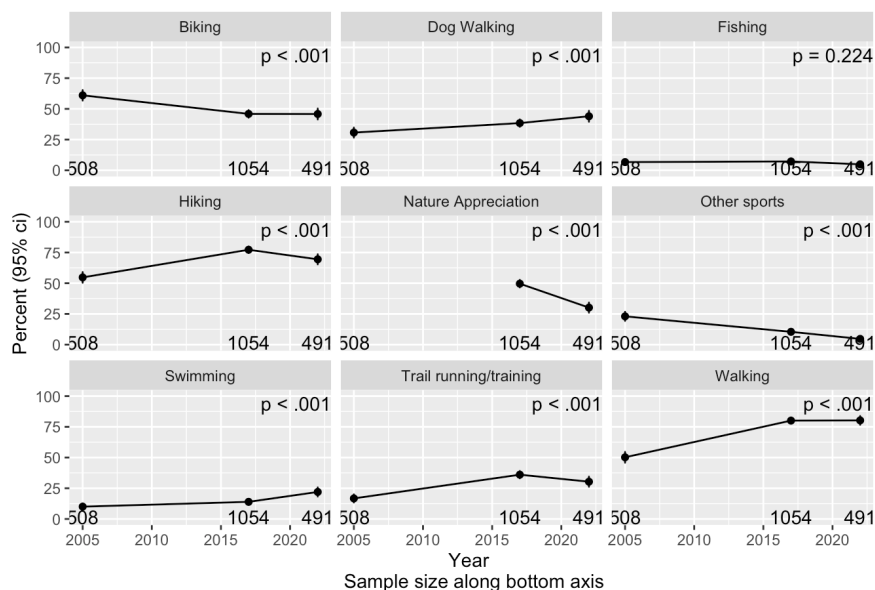
There were 22 respondents for "Other (please specify)". The open-ended responses were coded to a consistent set and the top response was snow sports (skiing and snowshoeing) (3 comments).

Comparison Study

Activity names were not consistent across the surveys so they were edited to a consistent set and consolidated to a smaller number of activities. If a person chose two or more activities within the reduced set, it was treated as a single response. Some activities (e.g., e-biking) did not exist in previous surveys.



Swimming and dog walking saw the biggest increases from 2017 to 2022/2023



Key Takeaways

- The top three activities in 2022/2023 were **walking (80%), hiking (69%) and dog walking (44%)**.
- Both dog walking and swimming increased nearly 10% from 2017 to 2022/2023.

What questions does this raise?

- Is there sufficient infrastructure in place to support current levels of dog walking and swimming?
- What does trail counter data show us about how these trends are playing out in different areas across the reserve?
- What are the impacts of dogs on wildlife and habitat?
- Is there adherence to leash requirements?
- Are there safety concerns for popular swimming areas?
- How do you gather data and information on different user groups (ex. walkers, hikers, dog walkers)?

Main Activities

Question 3: What activity do you do most in the LSCR?



In 2022/2023, 27% of respondents reported that dog walking was the activity they do the most, the highest of all activities.

Response	#	%
Dog Walking	130	27
Hiking	112	23
Walking	111	23
Trail Running	48	10
Mountain Biking	32	7
Road Biking	18	4
Gravel Biking	16	3
Fishing	6	1
E-biking (Mountain)	3	1
E-biking (Road)	2	0
Nature Appreciation (Ex. Birdwatching, Wildlife, Tree Viewing)	2	0
481 respondents		

Comparison Study

No comparisons could be completed as the question was asked in different ways in the 2017 and 2022/2023 intercept surveys.

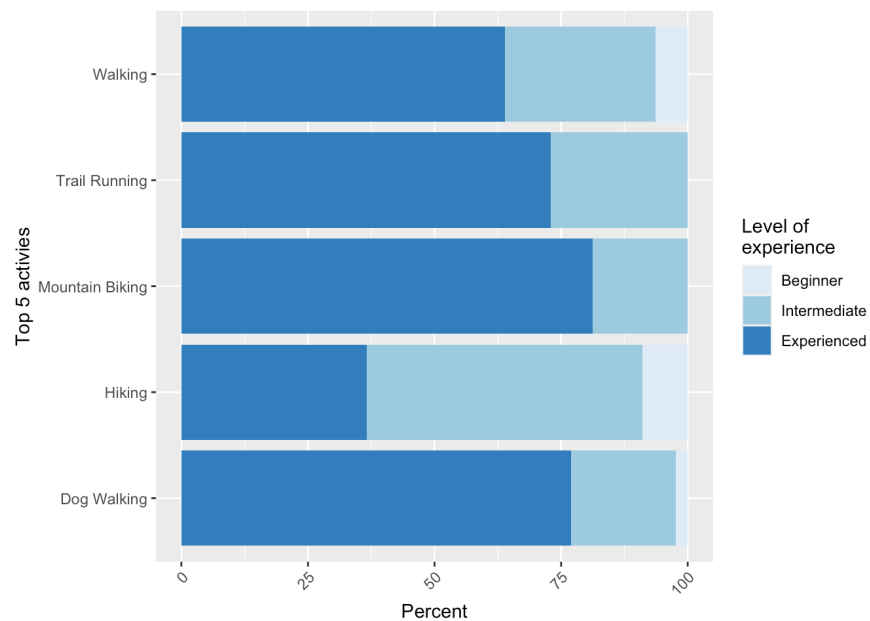
Level of Experience

Question 4: What is your level of experience for the activity you identified above?

Response	#	%
Beginner	22	4
Intermediate	162	33
Experienced	305	62
490 respondents		

Breakdown by top activity

The results were broken down by the top 5 responses to Question 3: What activity do you do most in the LSCR?.



Key Takeaways

- LSCR trail users consider themselves to be experienced at the activities they do most, with only 4% identifying as beginners.

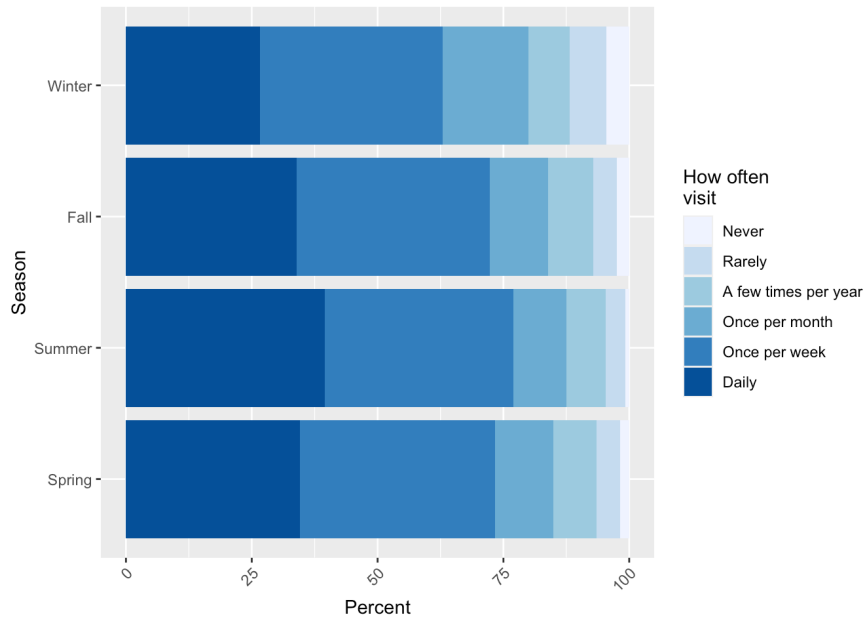
What questions does this raise?

- Does the trail network have sufficient options for users with higher levels of experience?

How Often

Question 5: On average, how often do you come to the LSCR during different times of the year?

Option	Never (%)	Rarely (%)	A few times per year (%)	Once per month (%)	Once per week (%)	Daily (%)
Spring	2	5	9	12	39	35
Summer	1	4	8	11	37	40
Fall	2	5	9	12	38	34
Winter	4	7	8	17	36	27
491 respondents						



At least 60% of respondents come to the LSCR either once per week or daily through all seasons.

Comparison Study

No comparisons could be completed as the question was asked in different ways in the 2017 and 2022/2023 intercept surveys.

Key Takeaways

- Visitation to the LSCR is consistent and frequent throughout the year, with at least 60% of respondents come to the LSCR either once per week or daily through all seasons.
- Use is highest in the summer, with 40% of respondents visiting the LSCR daily during that season.

What questions does this raise?

- How does high all-season use impact trail conditions and maintenance?
- Are trail surface upgrades required to prevent damage in the wet winter months?

Years Coming to the LSCR

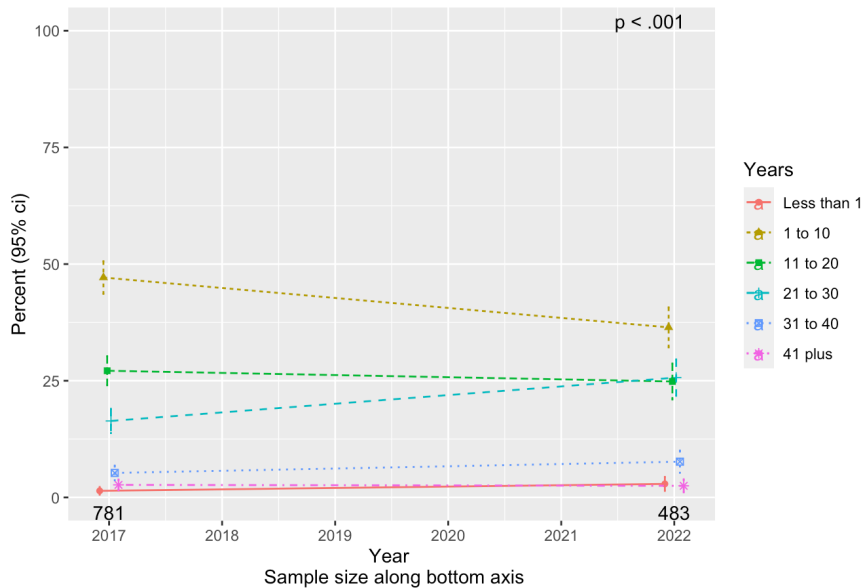
Question 6: How many years have you been coming to the LSCR?

Response	%
Many	1
41 plus	2
31 to 40	8
21 to 30	25
11 to 20	25
1 to 10	36
Less than 1	3
304 respondents	

61%
of 2022/2023
survey
respondents have
been coming to
the LSCR for
more than
10 years

Comparison Study

Data was recoded to a consistent set.



Key Takeaways

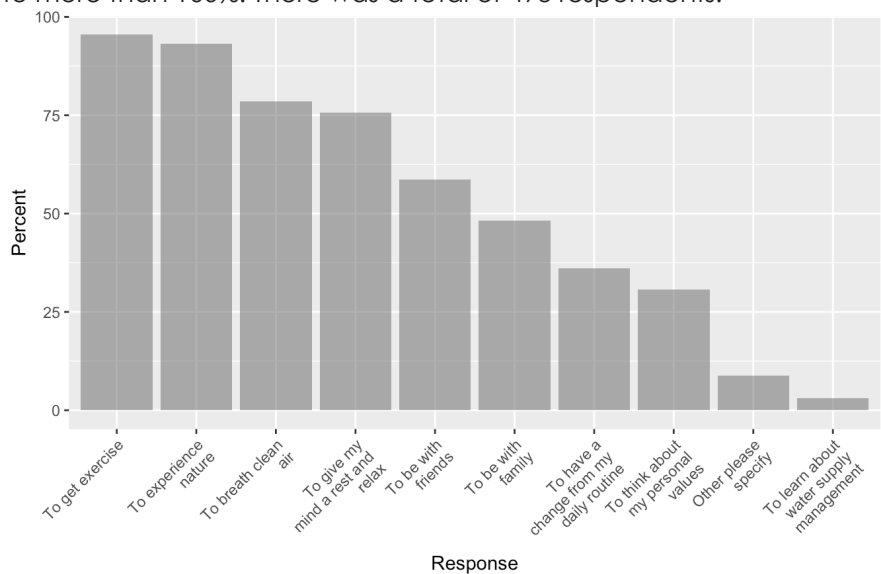
- 61% of respondents have been coming to the LSCR for more than 10 years.
- The largest bracket of respondents have been coming to the LSCR for 1 to 10 years (36%).

What questions does this raise?

- How many first time visitors come to the LSCR each year?
- Are maps and information sufficient for new visitors?
- What past outreach and education efforts should be repeated or expanded for the benefit of new visitors?

Why You Come to the LSCR

Question 7: From the list below, indicate why you come to the LSCR? Respondents could choose more than one activity so percentages add to more than 100%. There was a total of 493 respondents.

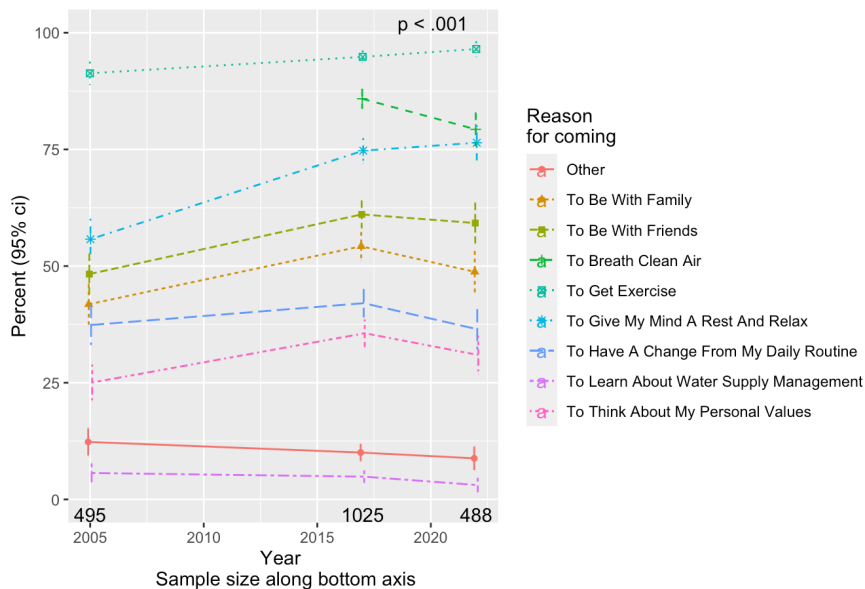


96% of respondents come to the LSCR to get exercise + 93% come to experience nature

There were 45 respondents for "Other (please specify)". The open-ended responses were examined and coded into a consistent set of responses. The top response was **walking and hiking with dog(s)** (27 comments).

Comparison Study

Options were not exactly the same across years, and were merged as best as possible.



Key Takeaways

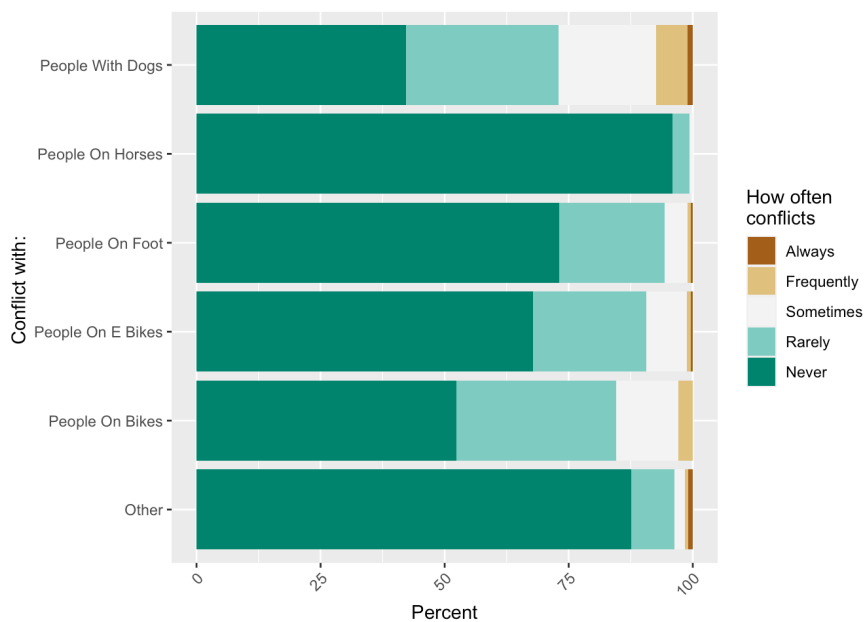
- Nearly all respondents come to the LSCR to get exercise (96%) and to experience nature(93%).

What questions does this raise?

- How can the LSCR continue to create opportunities for low-impact enjoyment of special ecosystems?
- Could there be ways to enhance the experience of people there to exercise? (Ex. adequate water stations, adequate trail markers/ distance markers, curated loops)

Conflicts at the LSCR

Question 8: From the list below, indicate how often you have had conflicts with each of the following.
Question 9: If you chose 'Other' for the above question, please indicate which activity you are referring to.
There were a total of 493 respondents.

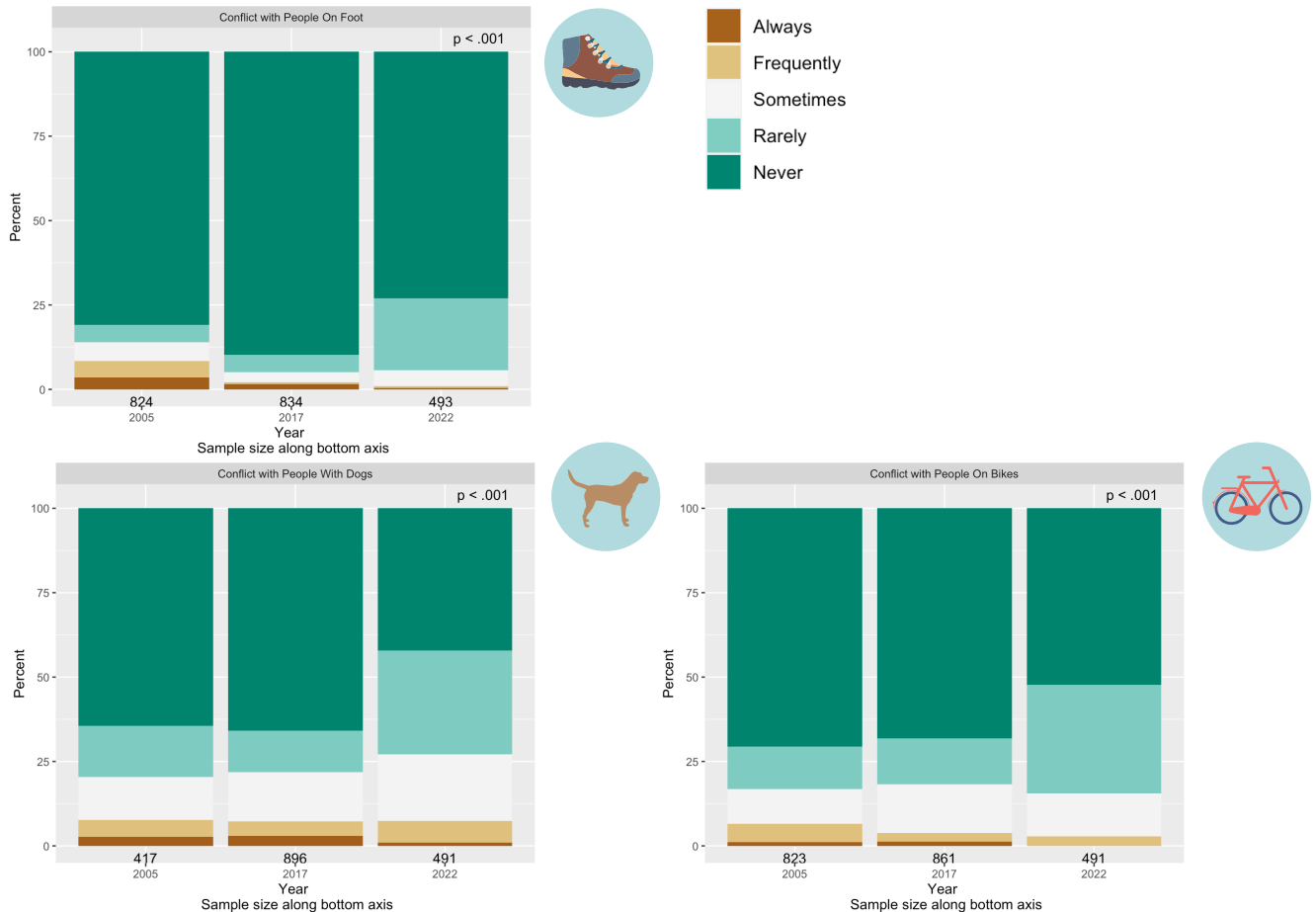


Conflicts with dogs were the highest, with 20% reporting sometimes having a conflict and 6% frequently having a conflict.

There were 40 respondents for "Other". The open-ended responses were examined and coded into a consistent set of responses. The top responses were more indicating conflicts with people on foot (9 comments) including irresponsible dog owners (4 comments) and smoking (5 comments). There were a few comments about people on or in the water (4 comments).

Comparisons Study

Not all options were worded identically across years and not all options were available in all years (e.g., ebikes). Only options that were on both years of surveys are included in the analysis.



Key Takeaways

- Conflicts with dogs were the highest, with 20% reporting sometimes having a conflict and 6% frequently having a conflict.
- Conflicts with people on bikes were the second highest, with 13% reporting sometimes having a conflict and 3% frequently having a conflict.
- Fewer users report never having conflicts than in 2017 and 2005. The percentage of users reporting conflicts frequently or always is similar to past surveys.

What questions does this raise?

- How can conflicts be reduced?
- What frequency of conflicts is acceptable?

Section 2. Location of Recreational Activities

Trails

Question 10: Which LSCR trails do you use most often? Please select your TOP 3. Respondents were able to choose multiple trails. Below are the top 10 trails.

Rank	Trails	%
1	Rice Lake Loop Trail	30
2	Fisherman S North	23
3	Fisherman S South	22
4	Lynn Connector Trail	20
5	Seymour Valley Trail Way	19
6	Twin Bridges	19
7	Homestead Trail	17
8	Hyannis Connector	14
9	Dog Mountain Trail	10
10	Bridle Trail	9
475 respondents		



**Rice Lake Loop Trail,
Fisherman's North,
+ Fisherman's South
were the top 3
LSCR trails in the
2022/2023 survey**

Comparison Study

No comparisons could be completed as the question was asked in different ways in the 2017 and 2022/2023 intercept surveys.

Key Takeaways

- Rice Lake Loop Trail (30%), Fisherman's North (23%), and Fisherman's South (22%) were the top 3 LSCR trails in the 2022/2023 survey

What questions does this raise?

- How can this inform resourcing decisions?
- Do the intercept survey findings align with trail counter data?

Entry into the LSCR

Question 11: Where do you usually enter the LSCR?

Question 12: If you selected 'Other', please indicate where.

Response	#	%
Lynn Valley Rd Pipeline Bridge	148	32
Hyannis Berkely Trailhead	98	21
Lillooet Road	78	17
Lynn Headwaters Regional Park	54	12
Dog Mountain Trailhead	28	6
Trails In Neighbouring Jurisdictions E G Bridle Trail Old Buck	17	4
Riverside Drive	14	3
Baden Powell Trail	12	3
Other	11	2
Mushroom Parking Lot	1	0
461 respondents		

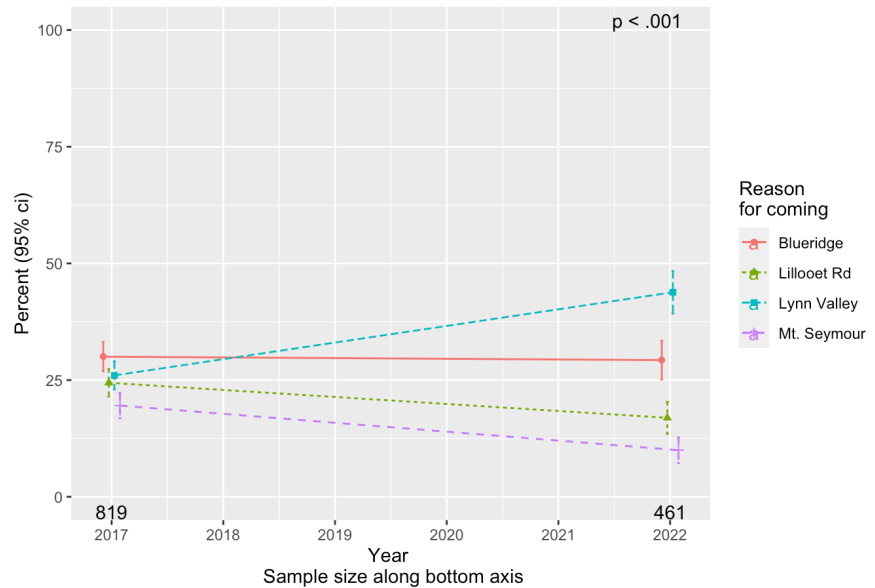


**Lynn Valley Rd/
Pipeline Bridge
(32%), Hyannis
Berkely Trailhead
(21%) +
Lillooet Road
(17%)
were the top 3
spots to enter the
LSCR**

There were 16 respondents for "Other". The open-ended responses were examined and coded into a consistent set of responses, and there were no significant additional findings.

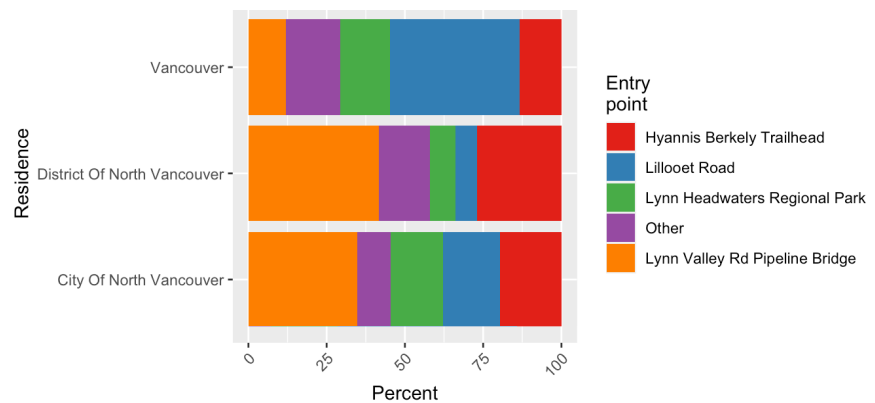
Comparison Study

The 2022/2023 survey moved from an open-ended format to checkboxes. Results from both surveys were consolidated into four locations to facilitate a comparison.



Breakdown by residence

The results were broken down by the top 3 responses of Question 36: What municipality do you live in?.



Key Takeaways

- The top 3 entry points into the LSCR were Lynn Valley Rd/Pipeline Bridge (32%), Hyannic Berkeley Trailhead (21%), and Lillooet Road (17%).

What questions does this raise?

- Is parking at these locations sufficient?
- What coordination with neighbouring jurisdictions is needed?
- Do the locations align with the intercept survey locations?
- Is there a risk of missing certain visitors because of the survey locations we chose?



55%
of 2022/2023
survey
respondents
travel to the LSCR
by personal
vehicle

Travel to the LSCR

Question 13: How do you usually travel to the LSCR?

Response	#	%
Personal Vehicle	260	55
By Foot	135	28
Bike	58	12
Carshare	21	4
Public Transportation	3	1
295 respondents		

Comparison Study

This question was not asked in previous surveys.

Key Takeaways

- Over half the respondents (55%) drive a personal vehicle to the LSCR.
- 40% of respondents get to the LSCR by active transportation (28% by foot, 12% by bike).

What questions does this raise?

- Is parking capacity sufficient?
- How can active transportation be better supported?
- How can carshares and public transportation be better supported?

Meeting Expectations

Question 14: Does the LSCR trail system currently meet your expectations?

Response	#	%
Yes	450	93
No	34	7
485 respondents		

Question 15: Why or why not?

There were 257 respondents to 'Why or why not?'. The responses were examined and coded into a consistent set of responses. The top responses described the trail system as **well-maintained, clean, and beautiful** (64 comments). Many love and have good experiences at the trails (54 comments), and there is an appreciation for the amount and variety of the trail network (34 comments).

Key Takeaways

- 93% of 2022/2023 respondents indicated the LSCR trail system meets their expectations.
- Respondents find the trail system well-maintained, clean, and beautiful (64 comments).



93%
of 2022 survey
respondents
indicated the
LSCR trail system
meets their
expectations

“ It has
everything.
Swimming,
dog walking,
running
trails, nature,
views, hiking,
history,
habitat. ”

Section 3. Trail Conditions and Facilities

Trail Conditions

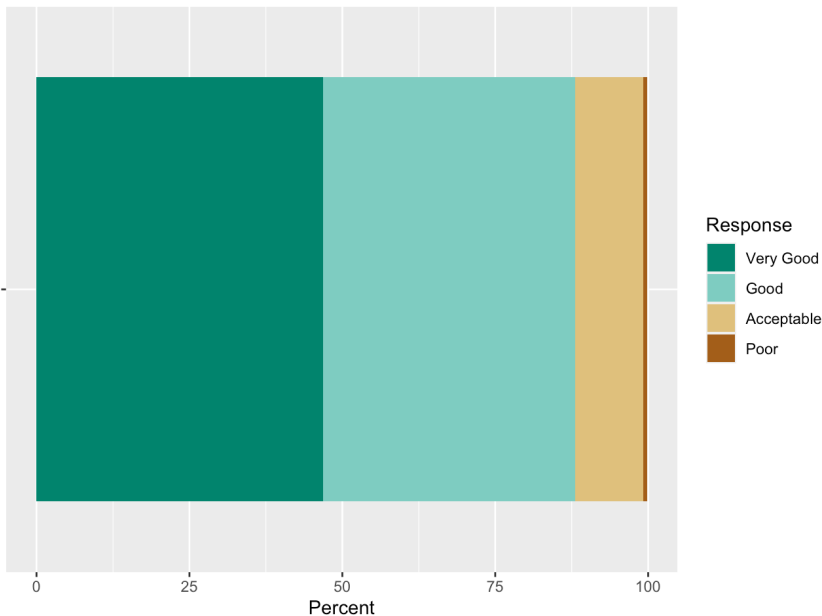


47%
of 2022/2023
respondents
ranked the LSCR
trail conditions as
very good



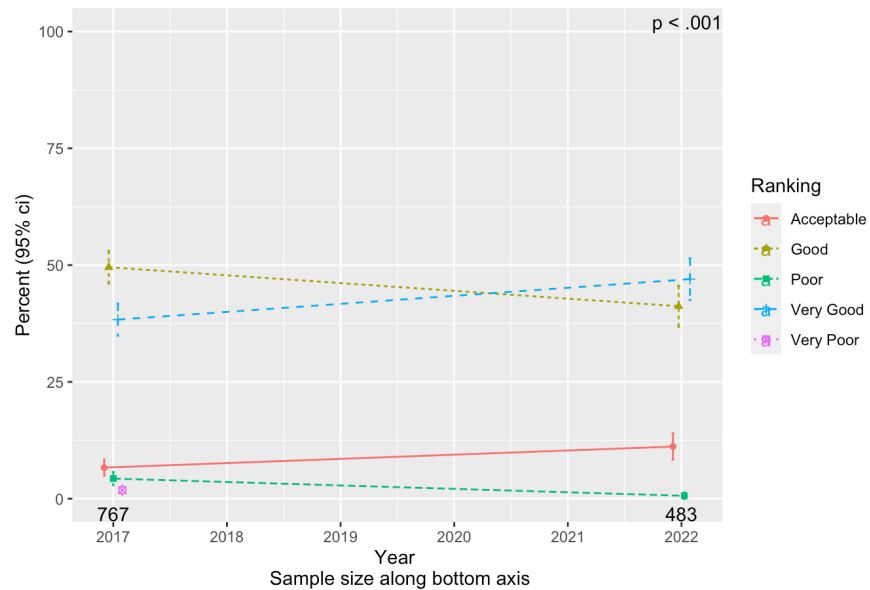
Question 16: Based on your experience in the LSCR today, how would you rank the trail conditions?

Question 17: If you rated very poor or poor, please list trails of concern. There was a total of 484 respondents.



Comparison Study

The 2017 results, which used for a rating on a scale from 1 to 9 (very poor to excellent), were recoded to the 5 categories in the 2022/2023 survey.



Key Takeaways

- 88% of respondents ranked the trail conditions as either very good (47%) or good (41%).
- There were no statistically significant trails of concern.

What questions does this raise?

- Are any changes to maintenance levels needed?
- Have staff and/or stakeholders identified any trails of concern?



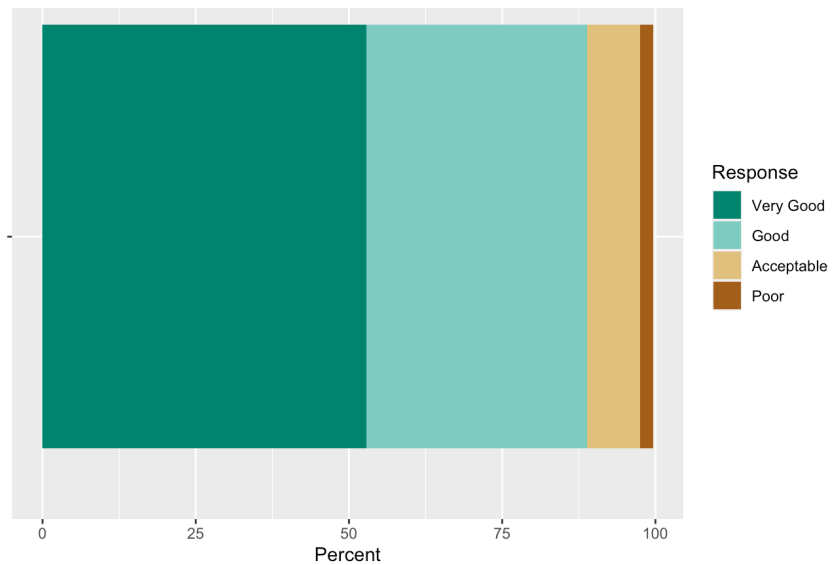
53%
of 2022/2023
respondents
ranked the general
cleanliness of
LSCR's facilities
very good

Cleanliness of LSCR's Facilities

Question 18: Based on your experience today, how would you rank the general cleanliness of LSCR's facilities?

Question 19: If you rated the cleanliness of facilities poor to very poor, please describe any issues.

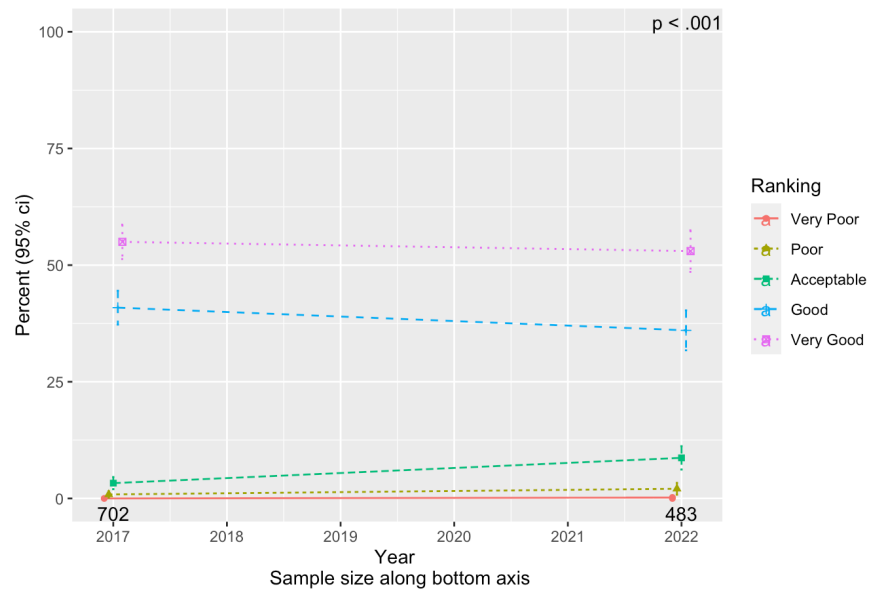
There were 484 respondents.



There were 21 respondents for the open-ended question on cleanliness. The responses were examined and coded to a consistent set of responses. The top response was on dog waste (10 comments).

Comparison Study

The 2017 results, which used for a rating on a scale from 1 to 9 (very poor to excellent), were recoded to the 5 categories in the 2022/2023 survey.



Key Takeaways

- 89% of respondents ranked the general cleanliness of the LSCR's facilities as either very good (53%) or good (36%).
- Dog waste was the most commonly cited issue (10 comments).

What questions does this raise?

- Are any changes to maintenance levels needed?
- How can the LSCR's dog-waste strategies be improved?



64%

think access to
backcountry trails
does not
need
improvement

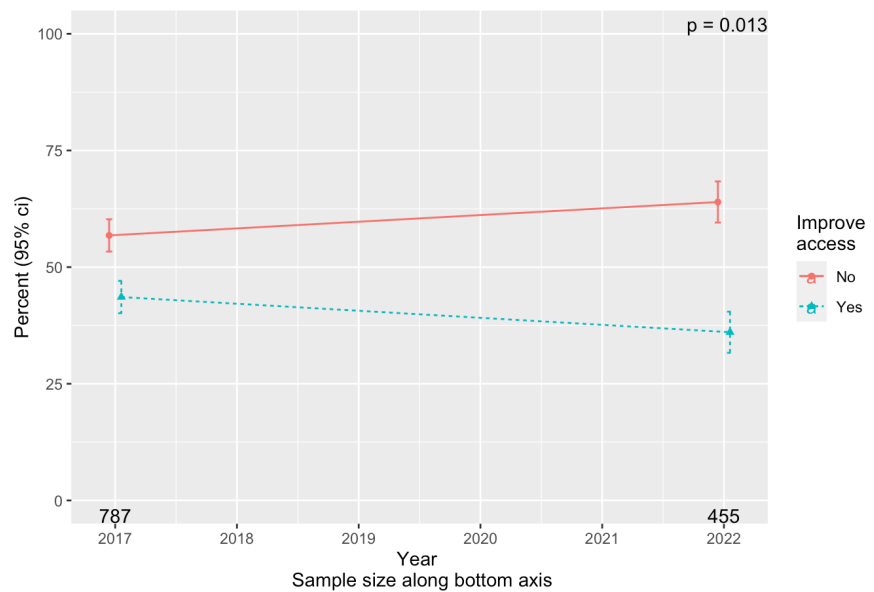
Section 4. Access

Access to Backcountry Trails

Question 20: Do you think that access to backcountry trails should be improved?

Response	#	%
No	291	64
Yes	164	36
456 responses		

Comparison Study



Key Takeaways

- 64% think access to backcountry trails does not need to be improved.
- Fewer 2022/2023 respondents think backcountry access needs to be improved (36%) than did in 2017 (44%)

What questions does this raise?

- Are current levels of backcountry access sufficient?
- Is a shift to focus on frontcountry trails needed?

18%

of 2022/2023
respondents seek
out unmarked/
unsanctioned trails



The top reasons
why are because
they are quieter
and
for exploration and
variety.

Unmarked/Unsanctioned Trails

Question 21: Do you seek out unmarked/unsanctioned trails?

Question 22: If you selected 'Yes' to the previous question, please indicate why you seek unmarked/unsanctioned trails.

Response	#	%
No	391	82
Yes	86	18
478 respondents		

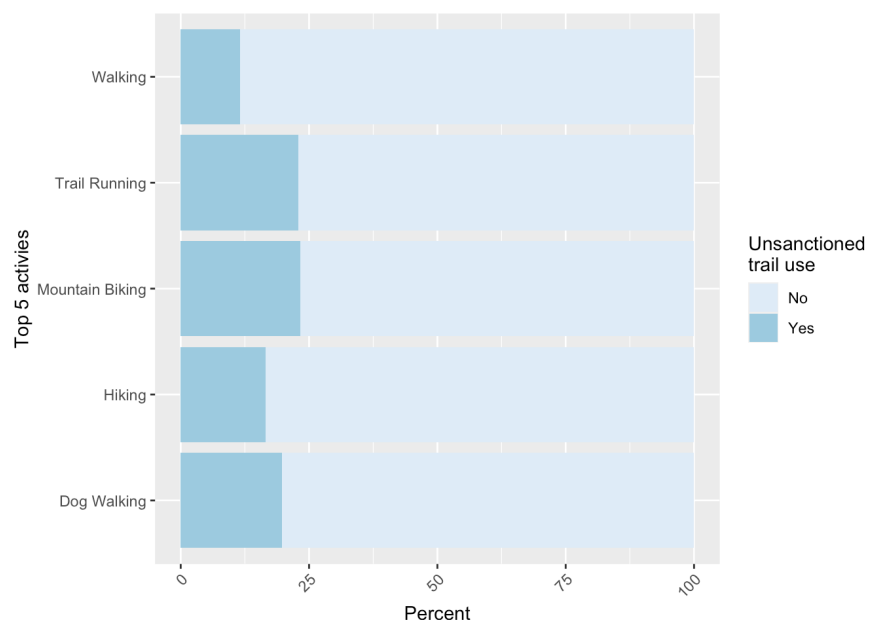
There were 83 respondents for the open-ended question and respondents could indicate more than one activity in the open-ended question. The responses were examined and coded into a consistent set of responses. The top two responses were **quieter and less people** (41 comments), and **for exploration and added variety** (41 comments).

Comparison Study

This was only asked in the 2022/2023 intercept survey.

Breakdown by top activity

The results were broken down by the top 5 results of Question 3: What activity do you do most in the LSCR?



Key Takeaways

- 18% of respondents seek out unmarked/unsanctioned trails.
- The top two responses to why visitors seek out unsanctioned trails were quieter and less people (41 comments), and for exploration and added variety (41 comments)

What questions does this raise?

- How can insights into unsanctioned trail users' motivations inform management approaches to unsanctioned trails?
- What activities are unsanctioned users pursuing?



68%

of 2022/2023
respondents
prefer
front-country
trail settings

Trail Setting

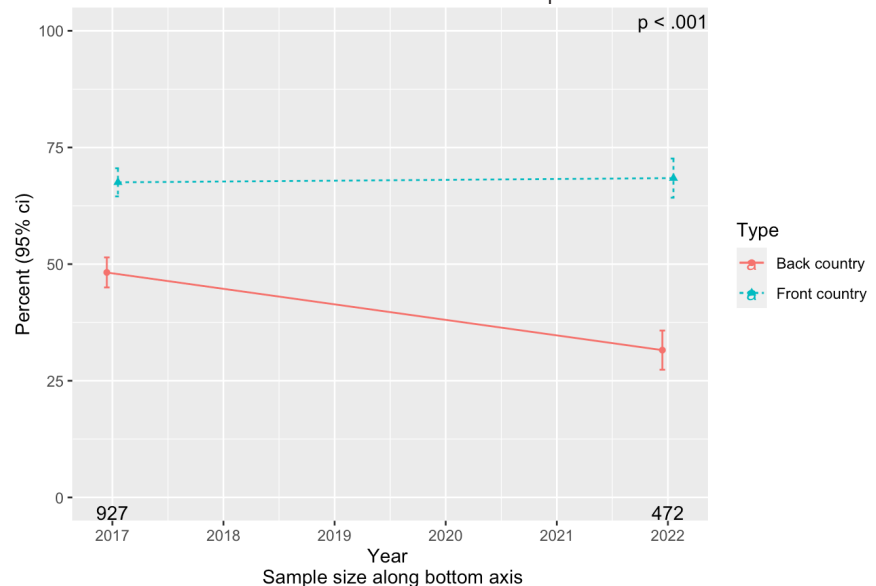
Question 23: What type of trail setting do you prefer when you are in the LSCR?

Respondents could indicate more than one activity in the open-ended question. The responses were examined and coded into a consistent set of responses.

Response	#	%
Front-country (e.g., easily accessed natural areas with some facilities)	323	68
Back-country (e.g., wilderness areas with limited facilities)	149	32
473 respondents		

Comparison Study

Some standardization was needed to compare 2017 and 2022.



Key Takeaways

- Two-thirds (68%) of respondents prefer front-country trail settings to backcountry trail settings (32%).
- Fewer respondents preferred a backcountry setting in 2022/2023 (32%) than in 2017 (44%).

What questions does this raise?

- Are current levels of backcountry access sufficient?
- How does this break down by user group?



47%
of 2022/2023
respondents
prefer
multi-use
trails

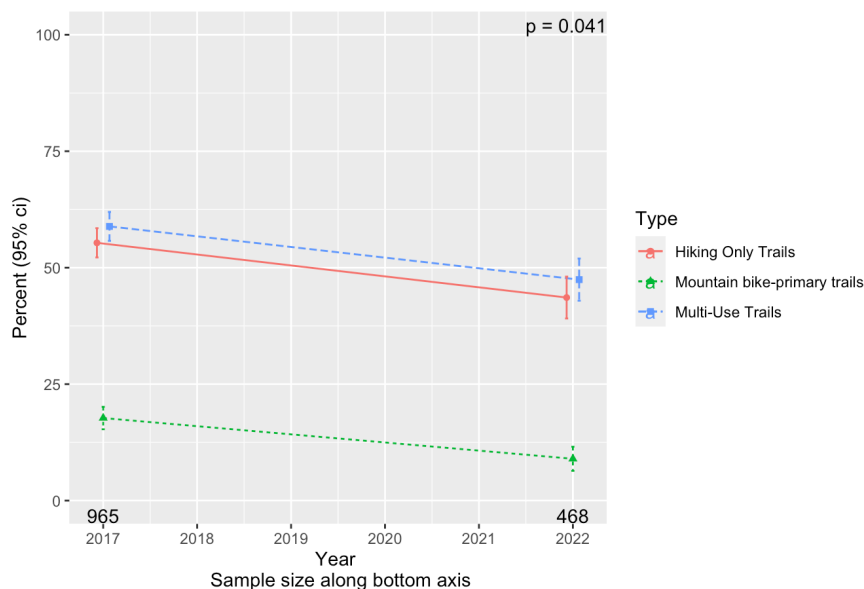
Trail Preference

Question 24: What kind of trails do you prefer when you are in the LSCR? The top three responses were the options listed as potential responses. Write-in responses were examined and coded into consistent set of responses. Respondents were able to indicate more than one activity.

Response	#	%
Multi-use trails	222	47
Hiking-only trails	200	42
Mountain bike-primary trails	42	9
More than 1	7	1
Dog- friendly trails	4	1
Dog-restricted trails	1	0
Quieter trails	1	0
477 respondents		

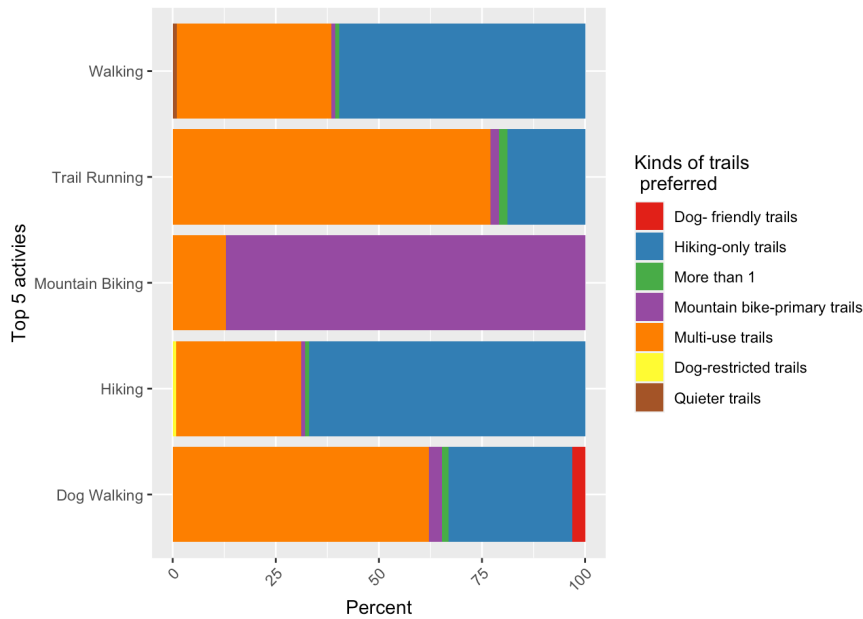
Comparison Study

2017 options were restricted to the three options listed in the 2022/2023 survey.



Breakdown by top activities

The results were broken down by the top 5 results of Question 3: What activity do you do most in the LSCR?



Key Takeaways

- The most preferred types of trails are multi-use (47%) and hiking-only (42%).

What questions does this raise?

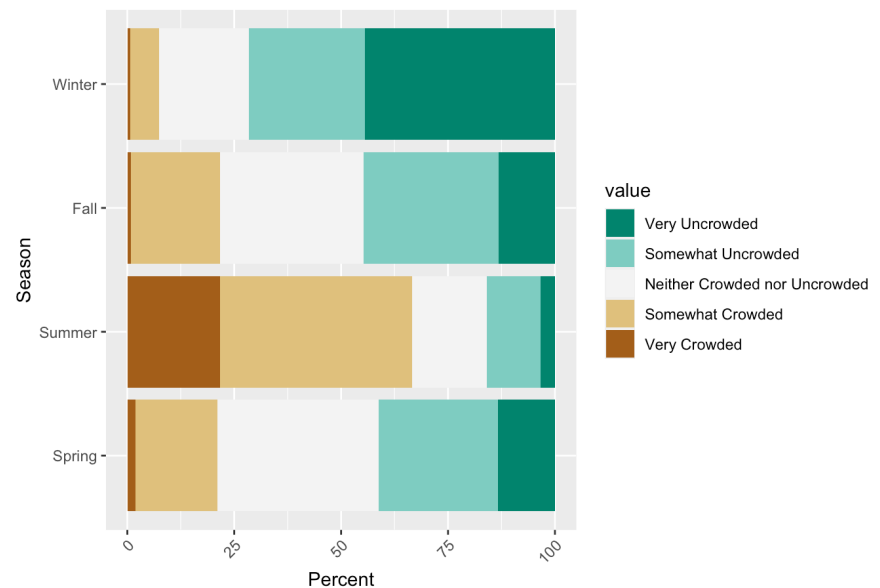
- Does the current distribution of trail types reflect user preferences?
- How do these findings align with trail counter data?

Section 5. Crowdedness

Question 25: Crowding at the LSCR

For each season below, indicate how crowded you have felt while being in the LSCR?

There were 471 responses.



22%

of respondents
indicated they feel
very crowded
in the summer



44%

of respondents
indicated they
feel somewhat
crowded in the
summer

Comparison Study

No comparisons could be completed as the question was asked in different ways in the 2017 and 2022/2023 intercept surveys.

Key Takeaways

- Crowding is most pronounced in the summer, with 22% of respondents indicating they have felt very crowded during that season.

What questions does this raise?

- How can feelings of being crowded be reduced, particularly in the summer?
- What could explain more pronounced seasonal differences in feelings of crowding than in seasonal differences in visitation (question 5)?
- How do these findings align with trail counters and other quantitative data sources?
- What is the relationship between feelings of being crowded and unsanctioned trail use/development?

Section 6. Education and Stewardship

Programs

Question 26: What types of new or additional programs would you like to see in the LSCR? Please check all that apply.

50%

of respondents indicated they would like to see programs on trail etiquette/ leave no trace



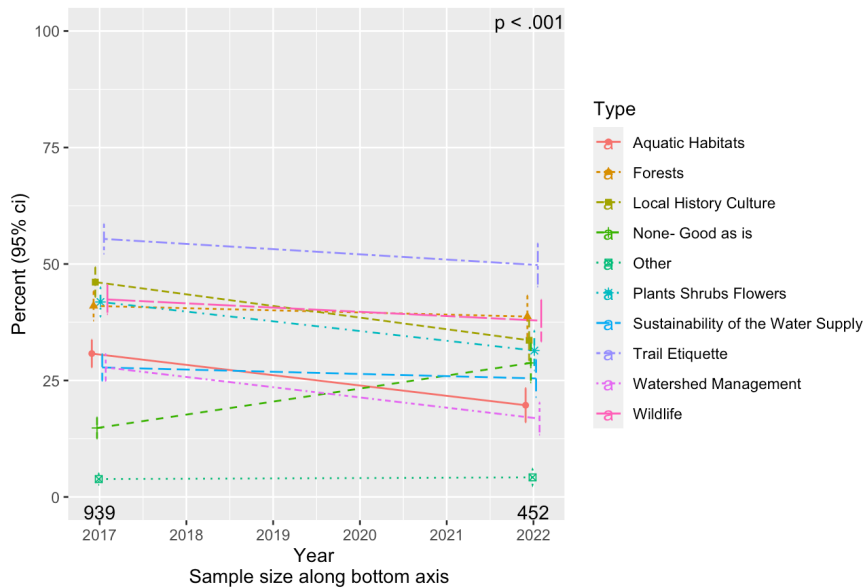
Response	#	%
Trail etiquette/ leave no trace	225	50
Forests	175	39
Wildlife	171	38
Local history culture	152	34
Plants/ shrubs/ flowers	142	31
None good as is	130	29
The sustainability of the public water supply in context of climate change	115	25
Aquatic habitats	89	20
Watershed management	76	17
Other (please specify)	19	4
473 respondents		

There were 17 "Other (please specify)" responses. The responses were examined and coded into consistent set of responses. The top response is more signage about dog restrictions and etiquette (3 comments).

Comparison Study

As options did not exactly align between 2017 and 2022/2023, matching of options was done as best as possible.

Key Takeaways



- Trail etiquette/leave no trace was the most popular choice (50%).

What questions does this raise?

- What types of programs are currently most popular?

42%

of respondents
were
somewhat
aware of the
LSCR's role in the
Metro Vancouver
drinking water
system



Drinking Water System

Question 27: To what extent are you aware of the LSCR's role in the Metro Vancouver drinking water system?

Response	#	%
Not At All	42	9
Very Little	108	23
Somewhat	200	42
To A Great Extent	122	26
473 respondents		

Comparison Study

This question was only asked in the 2022/2023 intercept survey.

Key Takeaways

- The majority of respondents are aware of the LSCR's role in the drinking water system either somewhat (42%) or to a great extent (26%).

What questions does this raise?

- How can awareness of LSCR's role in the drinking water system be improved?

Section 7. Wayfinding

Wayfinding Tools

Question 28: Which of the following do you use for wayfinding and route planning in the LSCR? Please check all that apply.

Response	#	%
AllTrails website app	147	33
Google Maps	145	32
Trail Forks website app	122	27
Other (please specify)	119	26
LSCR brochure	83	18
LSCR website	67	15
Strava	58	13
Gaia gps app	39	9
450 respondents		

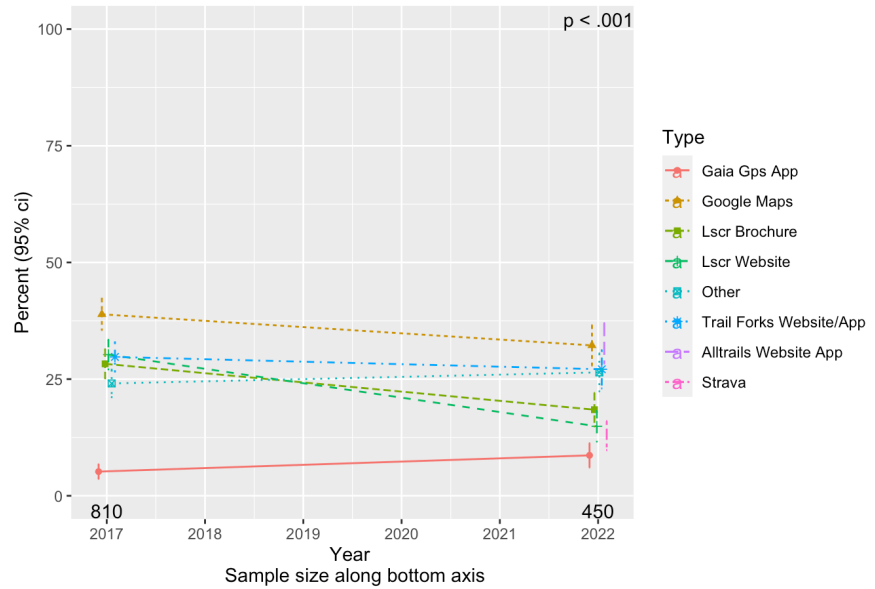


33%
of respondents
use
AllTrails
for wayfinding
and route
planning

The 116 “Other (please specify)” responses were examined and coded into consistent set of responses. Respondents could indicate more than one activity. The top three responses were respondents’ **own familiarity and knowledge of the area** (44 comments), **physical maps and signage on the trails** (31 comments), and family/friends (17 comments).

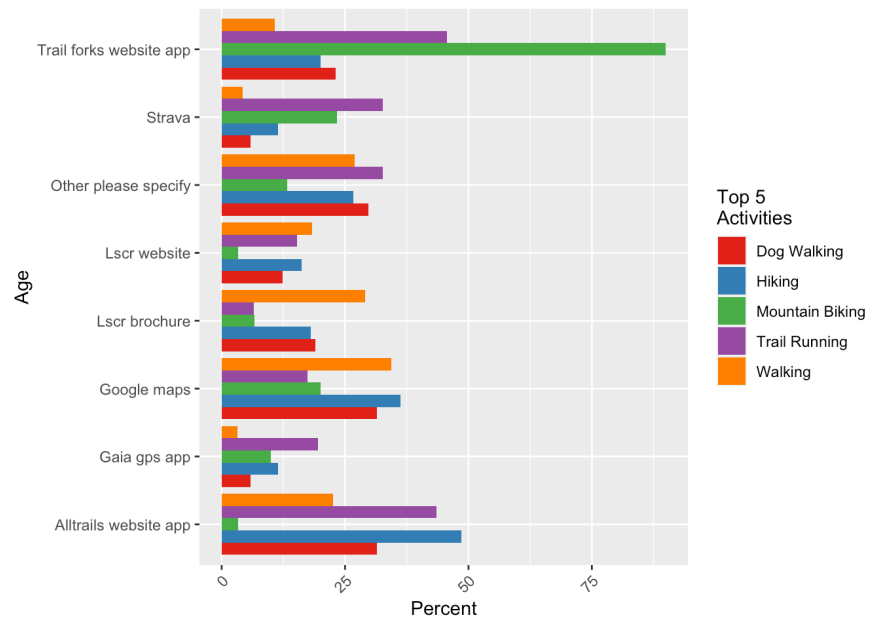
Comparison Study

Some options have been changed between years. People can select more than one option.



Breakdown by top activity

The results were broken down by the top 5 results of Question 3: What activity do you do most in the LSCR?



Key Takeaways

- Third-party websites and apps (All Trails 33%, Google Maps 32%, and Trail Forks 27%) are the most popular tools for wayfinding and route planning.

What questions does this raise?

- Are there/what are the potential issues with most visitors relying on online third-party sources for wayfinding and route planning?
- Does the LSCR have any responsibility for ensuring third-party sources are accurate? How could it do so?
- Does use of third party sources exacerbate unsanctioned trail use?



90%

of respondents
think there
is sufficient
information to find
their way in the
LSCR

Wayfinding Information

Question 29: Do you think that there is sufficient information for you to find your way in the LSCR?

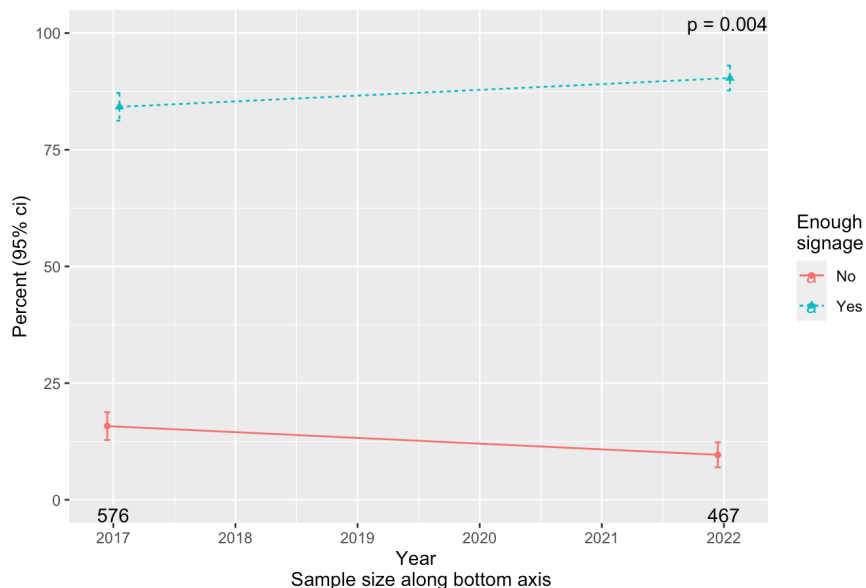
Question 30: If you chose no, please explain why.

Response	#	%
Yes	422	90
No	45	10
468 respondents		

The 40 open-ended responses were examined and coded into consistent set of responses. The top responses indicated **improvements were needed to signage and trail maps** (38 comments).

Comparison Study

Responses may not be comparable as 2017 responses were open-ended and 2022/2023 had a direct yes/no question.



Key Takeaways

- 90% of respondents think there is sufficient information to find their way in the LSCR.
- Improvements to signage and trail maps were the most commonly cited improvements.

What questions does this raise?

- What can be done to further improve signage and trail maps?



18%

of respondents
indicated they do
not feel safe while
visiting the LSCR

Safety

Question 31: Have you ever felt unsafe while visiting the LSCR?

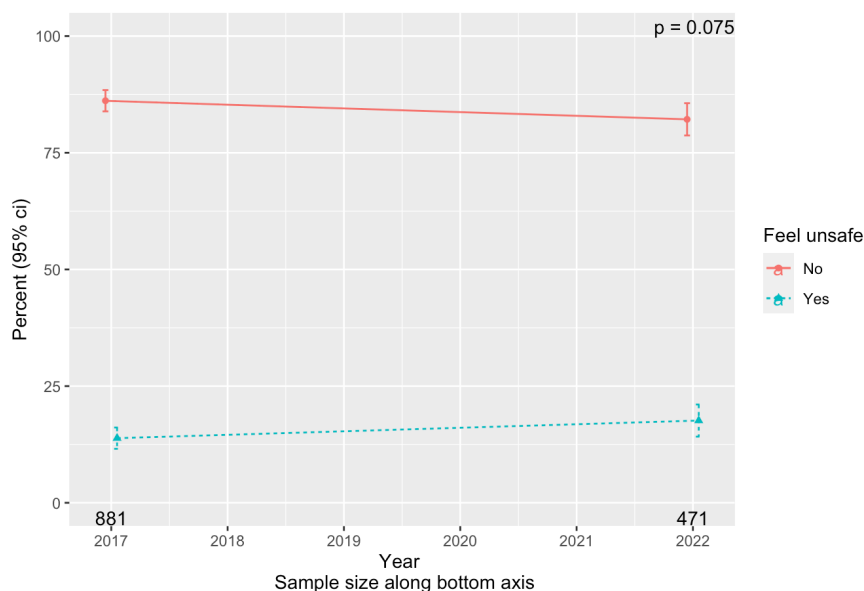
Question 32: Why or why not?

Response	#	%
No	387	82
Yes	83	18
471 respondents		

The 159 open-ended responses were examined and coded into consistent set of responses. The top two responses were **safety concerns with wild animal encounters (bears, cougars)** (44 comments), and those who **felt safe at the LSCR indicating there are always people around, they walk with others, or people are generally friendly** (33 comments).

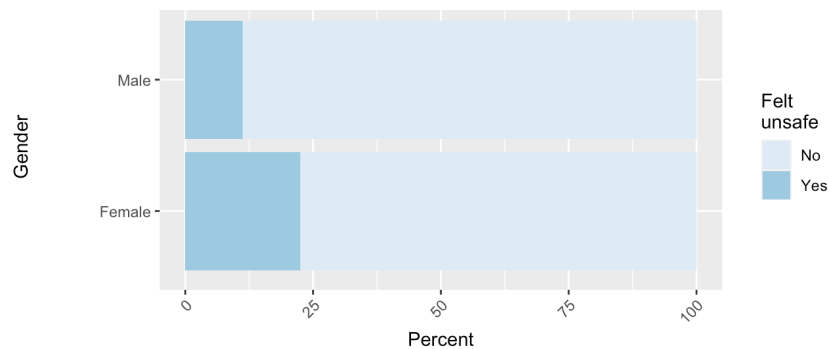
Comparison Study

Responses may not be comparable as 2017 responses were open-ended that was converted to yes and no, and 2022/2023 had a direct yes/no question.



Breakdown by gender

The results were broken down by the top two results of Question 37:
What gender do you identify as?



Key Takeaways

- 18% of respondents indicated they do not feel safe while visiting the LSCR.
- More women have experienced feeling unsafe than men (23% vs. 11%)
- The top two open-ended responses were safety concerns with wild animal encounters (bears, cougars) (44 comments), and those who felt safe at the LSCR indicating there are always people around, they walk with others, or people are generally friendly (33comments).

What questions does this raise?

- How can safety be improved? How can visitor's feelings of safety be improved?



48%

of respondents
indicated
there are
environmental
concerns either
with Fisherman's
North or Rice
Lake Loop Trail

Trails with Environmental Concerns

Question 33: Within the current LSCR trail network, are there trails with environmental concerns?

Question 34: If you selected specific trails above, please elaborate on your concerns.

Response	#	%
Fisherman S North	19	24
Rice Lake Loop Trail	19	24
Dog Mountain Trail	6	8
Fisherman S South	6	8
Hyannis Connector	5	6
Seymour Valley Trail Way	5	6
Bridle Trail	4	5
Homestead Trail	3	4
Baden Powell Trail Seymour Grind	2	3
Bottletop	2	3
Lynn Connector Trail	2	3
Ned S Atomic Dustbin	2	3
Twin Bridges	2	3
Baden Powell Trail Canyon Lillooet Road Riverside	1	1
Bc Hydro Access Road	1	1
Circuit 8	1	1
Coho Trail	1	1

Response	#	%
Filter Plant Trails	1	1
Footbridge Trail	1	1
Lillooet Trail	1	1
Powerlines	1	1
Will S Way	1	1
78 respondents		

Respondents could choose multiple trails and indicate more than one concern.

The 77 open-ended responses were examined and coded into consistent set of responses. The top three concerns were **erosion** (25 comments), **dog traffic and waste** (14 comments), and **heavy hiker traffic** (12 comments).

Comparison Study

Responses may not be comparable as 2017 was an open-ended question and some coding was done to make responses comparable across years. Respondents may not have known the exact trails and some responses did not provide a trail name but a general concern (ex. garbage present). The table is a list of trail names and if respondents reported environmental concerns.

Response	2017	2022/2023
Baden Powell	yes	yes
Bc Hydro Access Road		yes
Bottletop		yes
Bridle Trail	yes	yes
Circuit 8		yes
Coho Trail		yes
Dog Mountain Trail		yes
Filter Plant Trails		yes
Fishermans	yes	yes
Footbridge Trail		yes
Forever After	yes	
Homestead Trail	yes	yes
Hyannis Connector		yes
Lillooet Trail		yes
Lynn Canyon	yes	yes
Ned S Atomic Dustbin		yes
Old growth trail	yes	

Response	2017	2022/2023
Powerlines		yes
Rice Lake Loop Trail	yes	yes
Seymour Valley Trail Way		yes
Twin Bridges		yes
Varley	yes	
Will S Way		yes

Key Takeaways

- Fisherman's North (24%) and Rice Lake Loop (24%) were the most cited trails with environmental concerns.
- When asked to specify their concerns, respondents cited erosion (25 comments), dog traffic and waste (14 comments), and heavy hiker traffic (12 comments).

What questions does this raise?

- How can the LSCR further address concerns such as erosion and dog waste?

Section 10. Demographics

Age

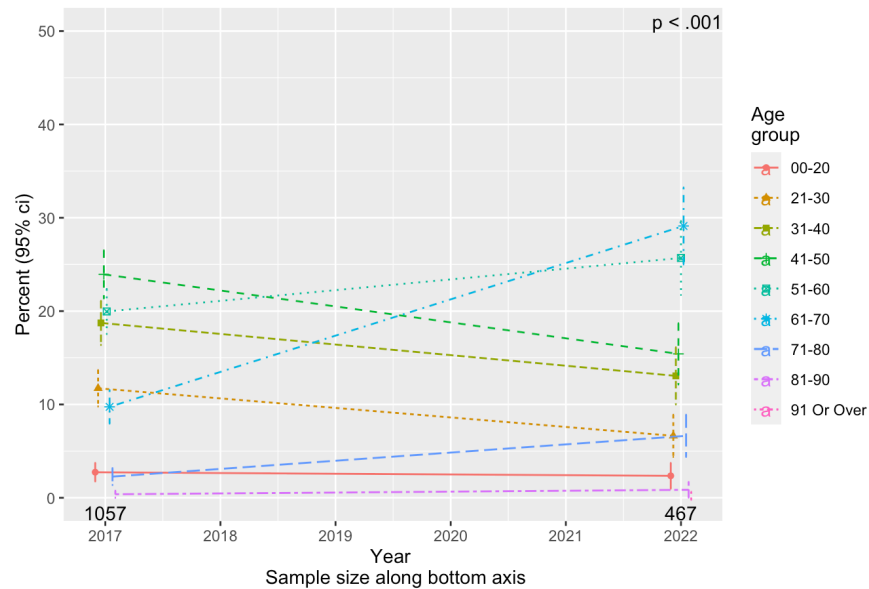
Question 35: Which of the following age groups do you fall into?



Response	#	%
20 Yrs Old or Under	0	0
21-30 Yrs Old	31	7
31-40 Yrs Old	61	13
41-50 Yrs Old	72	15
51-60 Yrs Old	120	26
61-70 Yrs Old	136	29
71-80 Yrs Old	31	7
81-90 Yrs Old	4	1
468 respondents		

Comparison Study

The 2017 data was converted to the age group (as of 2016 when the survey was done).



Key Takeaways

- Over half of respondents were either 51-60 yo (26%) or 61-70 yo (29%)
- From the 2017 survey to the 2022/2023 survey, both 41-50 yo (26%-15%) and 61-70 yo (13%-29%) categories changed more than 10%.

What questions does this raise?

- Are the LSCR's youngest and oldest visitors under represented in the survey?
- How can the LSCR better accommodate visitors over 70 and under 20?
- How much of the increased share of older visitors can be attributed to demographic shifts? How much is due to recreation trends?

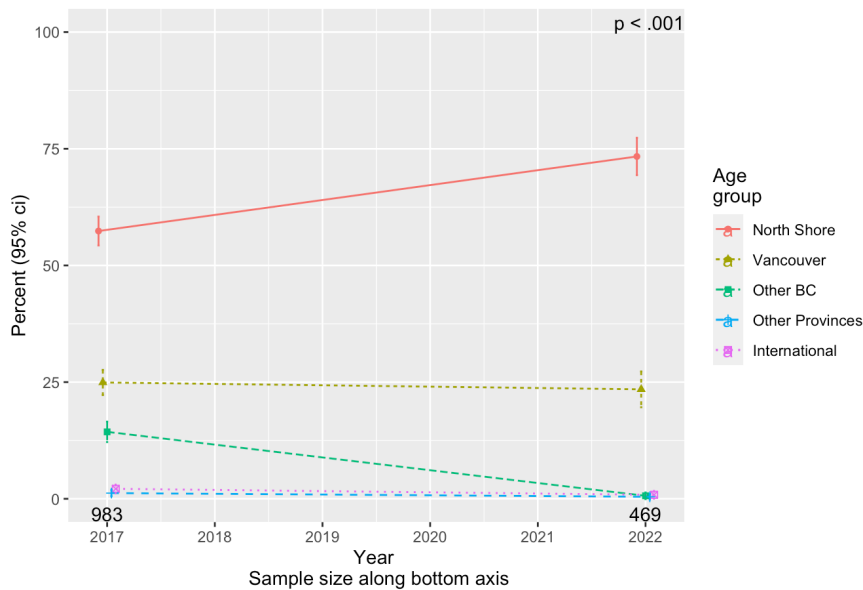
55%
of respondents
live in the
District of North
Vancouver

Municipality

Question 36: What municipality do you live in?

Response (Top 10)	#	%
District Of North Vancouver	258	55
Vancouver	78	17
City Of North Vancouver	73	16
Burnaby	15	3
West Vancouver	13	3
International	6	1
Richmond	6	1
Surrey	5	1
Ontario	4	1
Coquitlam	2	0
469 respondents		

Comparison Study



Key Takeaways

- The majority of visitors live in the District of North Vancouver (55%).

What questions does this raise?

- How can this information inform planning for different forms of transportation to and from the LSCR?

57%
of respondents
identify as
female

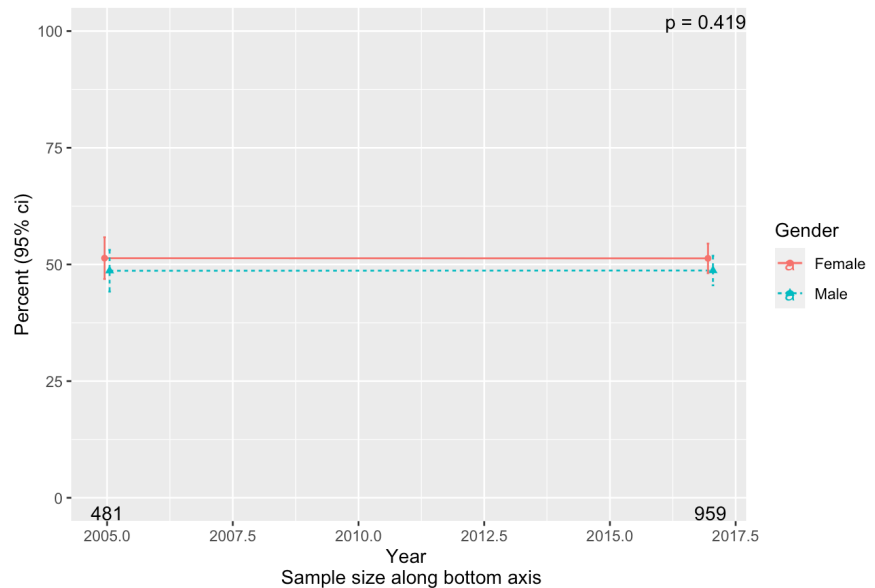
Gender

Question 37: What gender do you identify as?

Response	#	%
Female	254	54
Male	206	44
Prefer not to say	8	2
Non-binary/Gender fluid	2	0
470 respondents		

Comparison Study

2022/2023 had more categories than previous years and all responses were recoded to male/female only.



Language

Question 38: What language(s) do you speak at home?

Response	#	%
English	439	93
French	5	1
Cantonese	4	1
Mandarin	4	1
German	3	1
Polish	2	0
Russian	2	0
Afrikaans	1	0
Czech	1	0
English And Some French	1	0
Finnish	1	0
Korean	1	0
Swedish	1	0
Swiss German	1	0
Turkish /Azari	1	0
Vietnamese	1	0
470 respondents		

What questions does this raise?

- Is non-English language signage sufficient/needed in the LSCR?

Additional Comments

Question 39: Do you have any additional comments about the LSCR?

The open-ended responses were examined and coded into general themes. There was a total of 161 respondents and respondents could provide several comments.

The top comment was a **love and appreciation for the LSCR as beautiful place with great trails** (64 comments), and feeling grateful to live close by (14 comments). Some comments were about concerns related to parking (17 comments), encouraging better bike etiquette (13 comments), and needing more enforcement for dogs (11 comments).

3

Activity Profiles



Activity Profiles

The following activity profiles bring together data from multiple questions to build a picture of the people that enjoy the most popular activities at the LSCR. Because sources of wayfinding information, access points, and other characteristics vary by user group, these profiles can help inform outreach efforts and facility planning. For clarity, the profiles use question 3 “What activity do you do the most?”, which indicates a respondent’s main activity. The drawback of this question is many visitors to the LSCR do multiple activities. Less popular activities, such as swimming, have also been left out of the profiles because their sample sizes are not large enough for useful cross-tabulations.

Key takeaways from the profiles include:

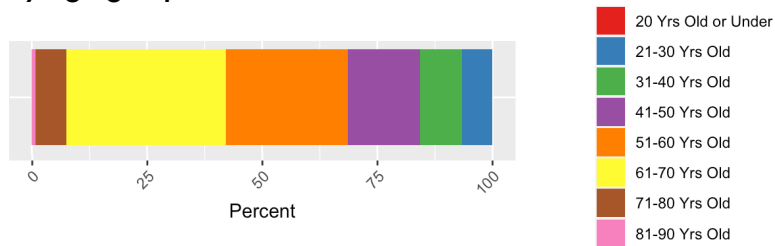
- Most dog walkers, mountain bikers, and trail runners are residents of the District of North Vancouver, whereas hikers are more likely to be from the Burrard Peninsula.
- Use of wayfinding tools varies widely by user group. Trail Forks is used most by nearly all mountain bikers (90%), whereas All Trails is the most used tool by hikers (49%).
- Dog walkers, hikers, and trail runners tend to prefer multi-use trails, but mountain bikers strongly prefer mountain-bike primary trails, and walkers tend to prefer hiking-only trails.
- The majority of dog walkers, mountain bikers, trail runners, and walkers rate themselves as experienced. The majority of hikers rate themselves intermediate.

Dog Walking

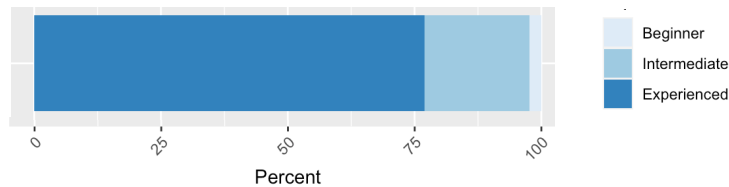
As a group, dog walkers:

- Are often over 51 years old (69% of respondents)
- Are experienced (77% of respondents)
- Are daily visitors to the LSCR (in summer, 62% of respondents)
- Are residents of the District of North Vancouver (70% of respondents)
- Prefer multi-use trails (62% of respondents)
- Do not have a wayfinding tool that is used by a majority of users

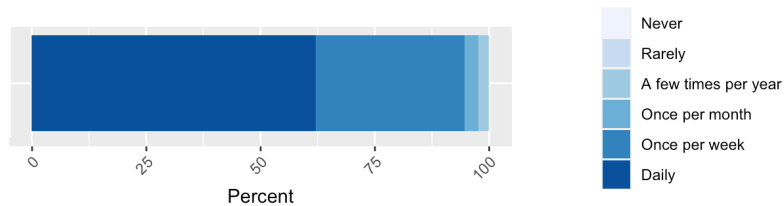
By age group



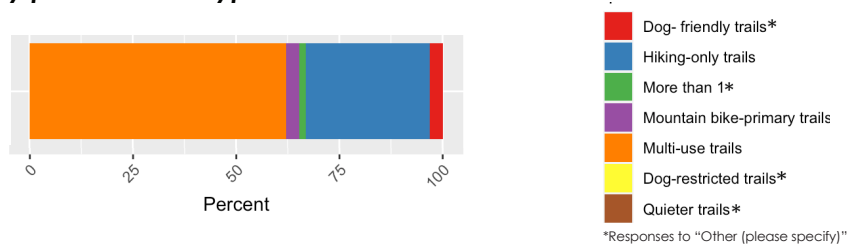
By level of experience



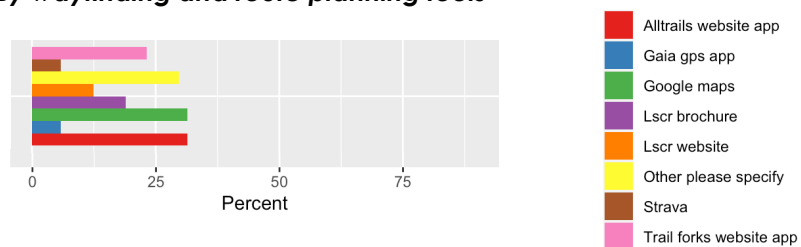
By frequency of visits in summer



By preferred trail type



By wayfinding and route planning tools

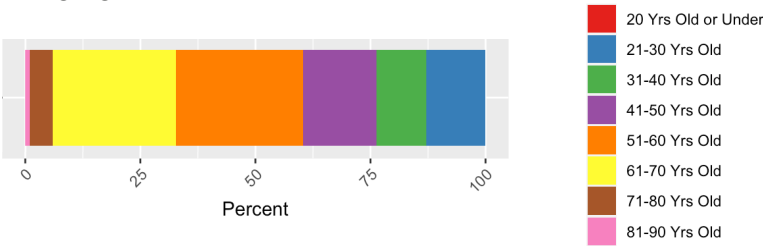


Hiking

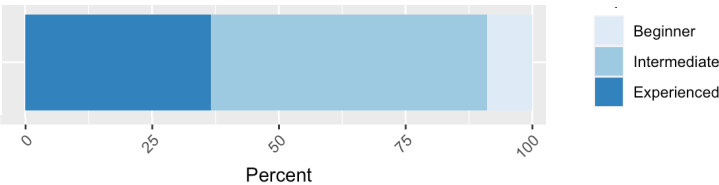
As a group, hikers:

- Are often over 51 years old (61% of respondents)
- Have an intermediate level of experience (54% of respondents)
- Are once a week visitors to the LSCR (in summer, 31% of respondents)
- Are residents of Burnaby or Vancouver(33% and 32% of respondents respectively)
- Prefer hiking-only trails (67% of respondents)
- Prefer Alltrails as a wayfinding tool (49% of respondents)

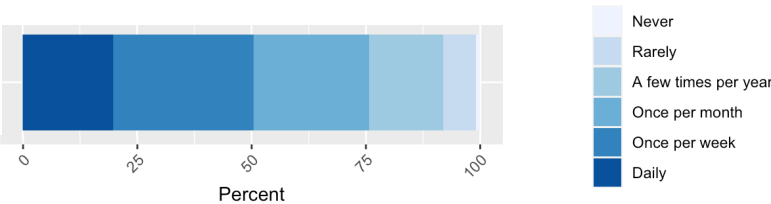
By age group



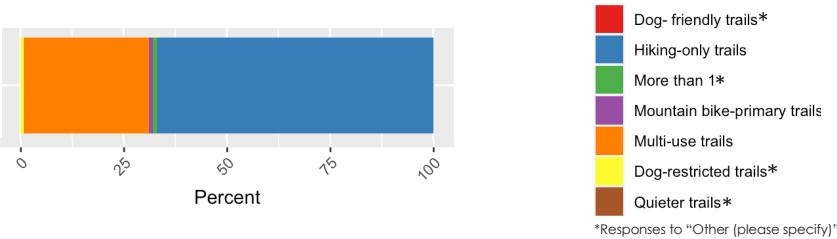
By level of experience



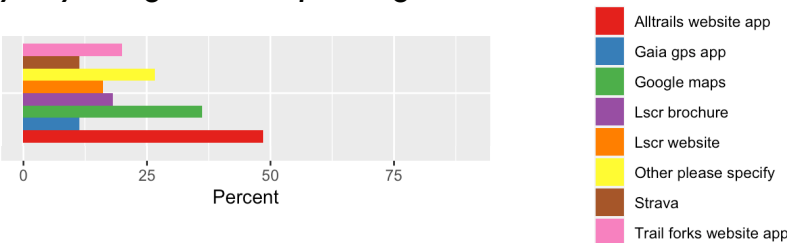
By frequency of visits in summer



By preferred trail type



By wayfinding and route planning tools

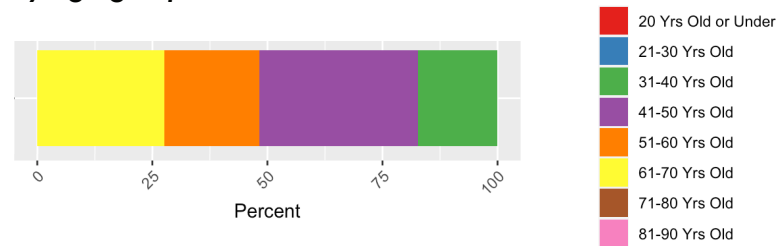


Mountain Biking

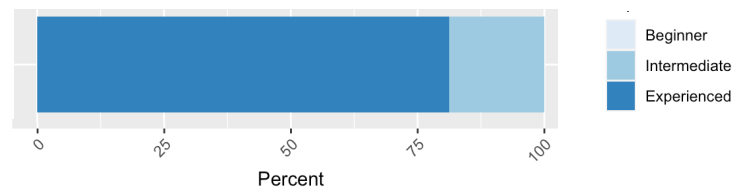
As a group, mountain bikers:

- Are often between 41-50 years old (34% of respondents)
- Are experienced (81% of respondents)
- Are once a week visitors to the LSCR (in summer, 53% of respondents)
- Are residents of the District of North Vancouver (68% of respondents)
- Prefer mountain bike-primary trails (87% of respondents)
- Prefer Trail Forks as a wayfinding tool (90% of respondents)

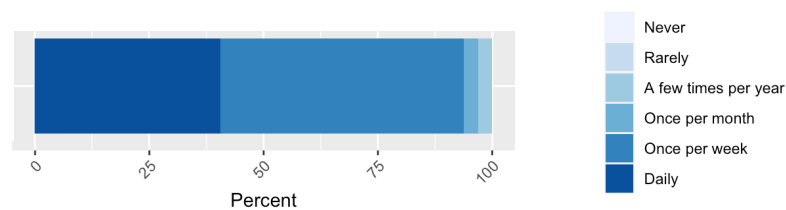
By age group



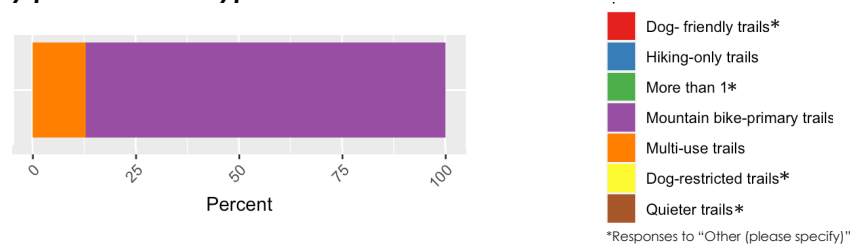
By level of experience



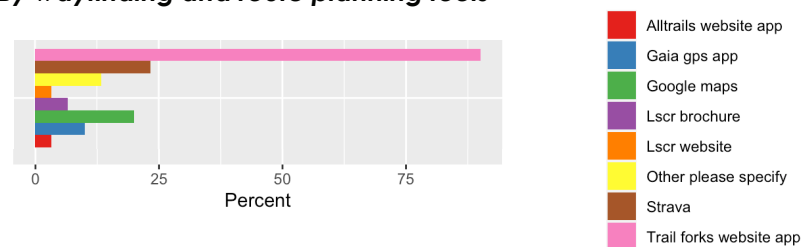
By frequency of visits in summer



By preferred trail type



By wayfinding and route planning tools

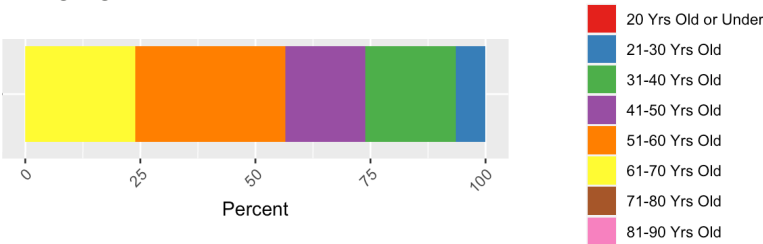


Trail Running

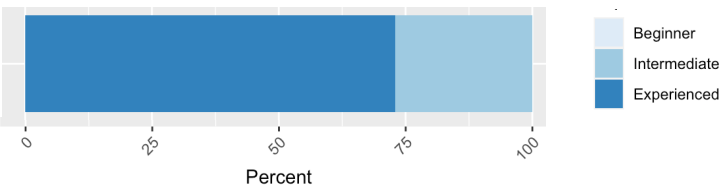
As a group, trail runners:

- Are often over 51 years old (57% of respondents)
- Are experienced (73% of respondents)
- Are once a week visitors to the LSCR (in summer, 54% of respondents)
- Are residents of the District of North Vancouver (60% of respondents)
- Prefer multi-use trails (77% of respondents)
- Prefer Trail Forks as a wayfinding tool (46% of respondents)

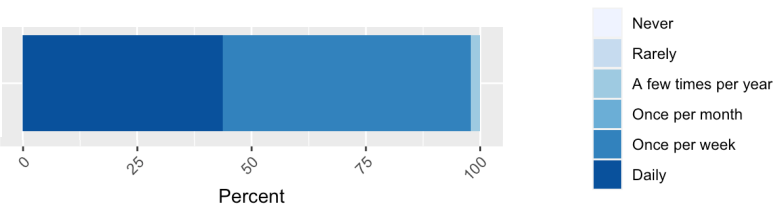
By age group



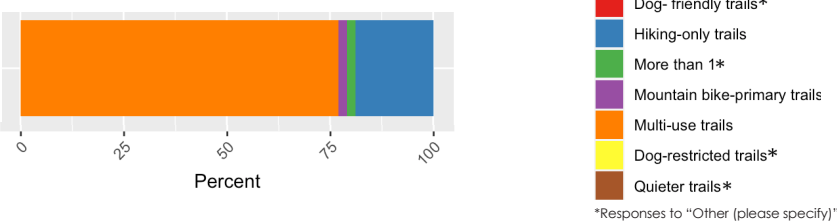
By level of experience



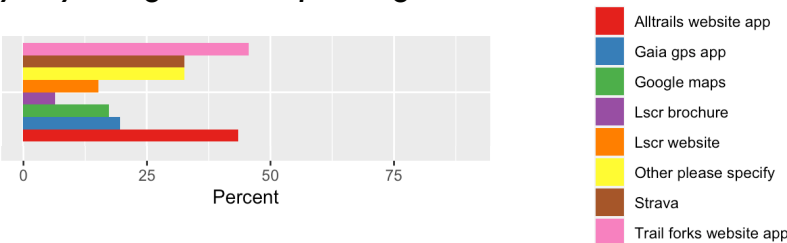
By frequency of visits in summer



By preferred trail type



By wayfinding and route planning tools

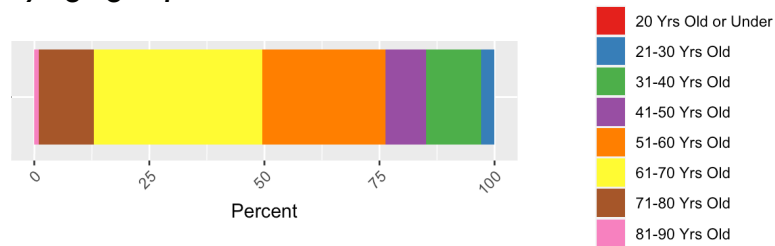


Walking

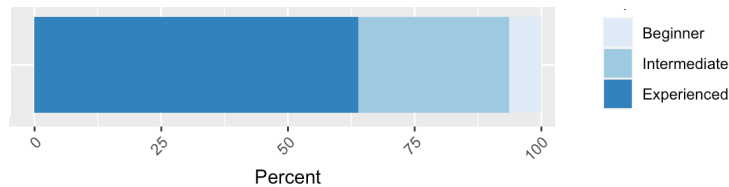
As a group, walkers:

- Are often over 51 years old (77% of respondents)
- Are experienced (64% of respondents)
- Are daily visitors to the LSCR (in summer, 41% of respondents)
- Are residents of the District of North Vancouver (62% of respondents)
- Prefer hiking-only trails (60% of respondents)
- Prefer Google Maps as a wayfinding tool (34% of respondents)

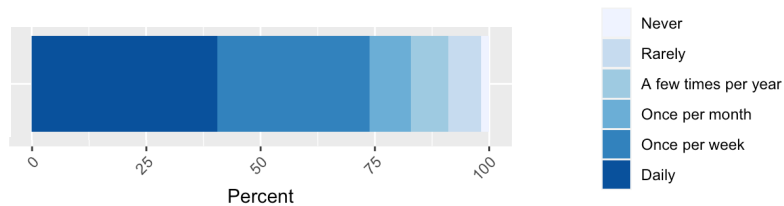
By age group



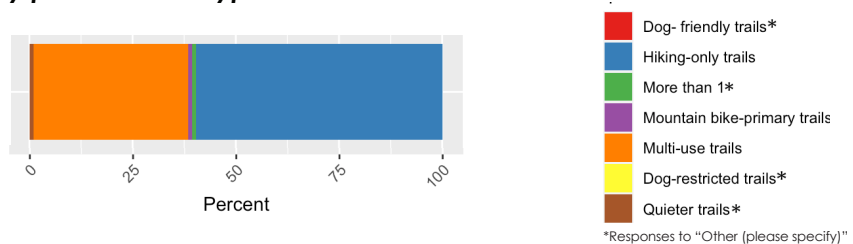
By level of experience



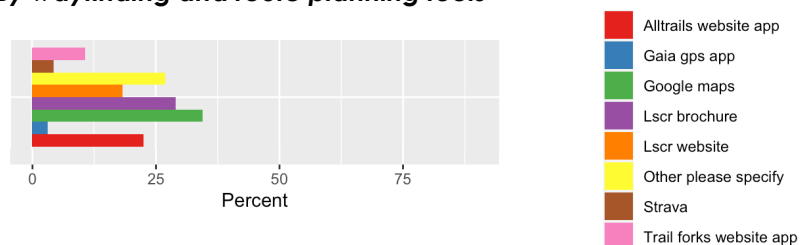
By frequency of visits in summer



By preferred trail type



By wayfinding and route planning tools



Appendices



Appendix A

Date	July 08 2022	July 28 2022	July 31 2022	Aug 01 2022
Location	Footbridge Trail	Hyannis Trailhead	Main public parking lot @ SVT trailhead kissing gate	Dog Mountain Trailhead
Time	PM	AM	PM	PM
Wind (Li-light, Me-Medium, St-strong)	Li	Li	Li	Li
Sky conditions (Su-sunny, Pc-partical cloud, Cl-cloudy, Ra-Rain, Sn-Snow)	Pc	Su	Su	Pc
Air Temp (°C)	22	23	24	22
# on foot	47	63	275	300
# of cyclists	113	5	61	0
# of other wheeled modes	0	0	0	0
# of parties	11	13	60	107
# of dogs	14	31	30	31
total # people using trail	160	68	336	300
# completed surveys on site	0	3	4	0
# committed to take survey online	47	38	97	68
# previously taken survey this year	0	0	0	0
# who declined to take the survey	3	1	71	28
total # invited to take the survey	50	42	172	96
General observations	Busy until around 3:30 and then very few people after that. Hard to get cyclists to participate as they zip past the booth quickly	Very Slow in terms of traffic. Most were moving into the trail system and not out during this time.	Super busy. Limited by single tablet	Ran out of QR codes at 3PM. No tablet surveys taken after that point. Continued to count trail users until 5
Staff initials	JC/DT	DT/CG	CB/CN	CN/AP

Date	Aug 10 2022	Aug 20 2022	Aug 29 2022	Sep 05 2022
Location	Twin Bridges	Dog Mountain Trailhead	Hyannis Trailhead	Footbridge Trail
Time	AM	PM	AM	AM
Wind (Li-light, Me-Medium, St-strong)	Li	Li	Li	Li
Sky conditions (Su-sunny, Pc-partical cloud, Cl-cloudy, Ra-Rain, Sn-Snow)	Pc	Pc	Pc	Pc
Air Temp (°C)	19	22	17	13
# on foot	40	233	51	310
# of cyclists	5	0	6	83
# of other wheeled modes	1	0	0	0
# of parties	12	60	10	101
# of dogs	19	23	41	56
total # people using trail	46	233	57	393
# completed surveys on site	1	10	7	5
# committed to take survey online	15	73	27	34
# previously taken survey this year	0	0	3	1
# who declined to take the survey	1	6	0	3
total # invited to take the survey	17	89	37	43
General observations	Very slow		Issues with tablet. Unable to refresh survey page to lead a new session from 8AM-10AM. DT came to site to trouble shoot, back online at 10AM	People complained survey was too long. Still issues with loading survey page.
Staff initials	DT/CN	GB/JG	CB/LG	CB/CN

Date	Sep 10 2022	Sep 13 2022	Oct 2 2022	Oct 10 2022
Location	Twin Bridges	Main public parking lot @ SVT trailhead kissing gate	Twin Bridges	Main public parking lot @ SVT trailhead kissing gate
Time	PM	PM	PM	PM
Wind (Li-light, Me-Medium, St-strong)	Li	Li	Li	Li
Sky conditions (Su-sunny, Pc-partical cloud, Cl-cloudy, Ra-Rain, Sn-Snow)	Su	Cl	Su	Pc
Air Temp (°C)	25	15	14	18
# on foot	106	78	122	390
# of cyclists	29	2	14	100
# of other wheeled modes	0	1	0	2
# of parties	21	10	47	130
# of dogs	17	8	47	23
total # people using trail	135	81	136	492
# completed surveys on site	1	2	2	0
# committed to take survey online	65	9	56	60
# previously taken survey this year	0	6	0	1
# who declined to take the survey	5	6	6	40
total # invited to take the survey	71	23	64	101
General observations		Only surveyed for 2 hrs. Called away for emergency.		
Staff initials	JC/GB	CG/GB	CB/CG	KA/CB

Date	Oct 19 2022	Oct 24 2022	Nov 1 2022	Nov 12 2022
Location	Footbridge Trail	Twin Bridges	Dog Mountain Trailhead	Hyannis Trailhead
Time	PM	PM	PM	AM
Wind (Li-light, Me-Medium, St-strong)	Li	Li	Li	Li
Sky conditions (Su-sunny, Pc-partical cloud, Cl-cloudy, Ra-Rain, Sn-Snow)	Su	Ra	Sn	Su
Air Temp (°C)	10	4	4	0
# on foot	173	35	19	200
# of cyclists	39	7	0	34
# of other wheeled modes	1	0	0	1
# of parties	7	10	6	27
# of dogs	50	17	4	55
total # people using trail	213	42	19	235
# completed surveys on site	0	3	0	107
# committed to take survey online	82	6	10	103
# previously taken survey this year	10	3	0	6
# who declined to take the survey	8	1	0	132
total # invited to take the survey	100	13	10	241
General observations				
Staff initials	JC/GB	CG/LG	JC/GB	CG/CB

Date	Nov 24 2022	Dec 18 2022	Dec 26 2022	Dec 30 2022
Location	Main public parking lot @ SVT trailhead kissing gate	Dog Mountain Trailhead	Footbridge Trail	Hyannis Trailhead
Time	AM	AM		AM
Wind (Li-light, Me-Medium, St-strong)	Li	n/a	n/a	Li
Sky conditions (Su-sunny, Pc-partical cloud, Cl-cloudy, Ra-Rain, Sn-Snow)	Pc	n/a	n/a	Ra
Air Temp (°C)	5	n/a	n/a	6
# on foot	99	n/a	n/a	65
# of cyclists	2	n/a	n/a	9
# of other wheeled modes	1	n/a	n/a	2
# of parties	17	n/a	n/a	10
# of dogs	12	n/a	n/a	36
total # people using trail	102	n/a	n/a	76
# completed surveys on site	2	n/a	n/a	1
# committed to take survey online	19	n/a	n/a	30
# previously taken survey this year	0	n/a	n/a	0
# who declined to take the survey	1	n/a	n/a	0
total # invited to take the survey	22	n/a	n/a	31
General observations		CANCELLED DUE TO WEATHER + STAFFING	CANCELLED DUE TO STAFFING	
Staff initials	DT/CG			DT/CG

Appendix B

LSCR Visitor Intercept Survey – 2022/2023

Section 1: Your Recreational Activities

1. What is your survey ID number?
2. From the list below, indicate the activities that you do in the LSCR. Please check all that apply.

Walking

Dog walking

Fishing

Hiking

Horse-Back Riding

Kayaking

Trail Running

Mountain Biking

E-Mountain Biking

Gravel Biking

E-Road Biking

Road Biking

Longboarding

Nature Appreciation (E.g., birdwatching, wildlife/tree viewing)

Geocaching

Swimming

Wheelchair Accessible Travel

Orienteering

Other (please specify): _____

3. What activity do you do most in the LSCR? (Drop down with choices from Q1.)

4. What is your level of experience for the activity you identified above?
[Beginner/Intermediate/Experienced]
5. On average, how often do you come to the LSCR during different times of the year?
[Options for each season are Daily, Once per week, Once per month, A few times per year, Rarely, Never]
6. How many years have you been coming to the LSCR?
7. From the list below, indicate why you come to the LSCR?
 - To learn about water supply management
 - To experience nature
 - To breath clean air
 - To think about my personal values
 - To get exercise
 - To give my mind a rest and relax
 - To have a change from my daily routine
 - To be with friends
 - To be with family
 - Other _____
8. From the list below, indicate how often you have had CONFLICTS with EACH of the following:
 - I have a conflict with: *Never Rarely Sometimes Frequently Always*
 - People on Foot
 - People on Bikes
 - People on E-Bikes
 - People on Horses
 - People with Dogs
 - Other
9. If you chose 'Other' for the above question, please indicate which activity you are referring to

Section 2: Location of your Recreational Activities

10. Which LSCR trails do you use most often? Please select your TOP 3.

[Drop down list of all trails]

11. Where do you usually enter the LSCR?

Lillooet Road

Lynn Valley Rd-Pipeline Bridge

Lynn Headwaters Regional Park

Baden Powell Trail

Riverside Drive

Hyannis/Berkely Trailhead

Trails in Neighbouring Jurisdictions on Mt. Seymour (e.g., Bridle Trail, Old Buck)

Mushroom Parking Lot

CBC Trailhead

Dog Mountain Trailhead

12. If you selected 'Other', please indicate where.

13. How do you usually travel to the LSCR? [Personal Vehicle/Carshare/Public Transportation/ By Foot/Bike/Horse]

14. Does the LSCR trail system currently meet your expectations? [Yes/No]

15. Why or why not? _____]

Section 3: Trail and Facility Conditions

16. Based on your experience in the LSCR today, how would you rank the trail conditions?
[Very Poor /Poor /Acceptable /Good /Very Good]
17. If you rated very poor or poor, please list trails of concern: _____
18. Based on your experience today, how would you rank the general cleanliness of LSCR's facilities?
[Very Good /Good /Acceptable /Poor /Very Poor]
19. If you rated the cleanliness of facilities poor to very poor, please describe any issues _____

Section 4: Access

20. Do you think that access to backcountry trails should be improved? [Yes/No]
21. Do you seek out unmarked/unsanctioned trails? [Yes/No]
22. If you selected 'Yes' to the previous question, please indicate why you seek unmarked/unsanctioned trails _____
23. What type of trail setting do you prefer when you are in the LSCR?
Front-country (e.g., easily accessed natural areas with some facilities)
Back-country (e.g., wilderness areas with limited facilities)
24. What kind of trails do you prefer when you are in the LSCR?
Mountain bike-primary trails
Hiking-only trails
Multi-use trails
Other (please specify) _____

Section 5: Comfort

25. For each season below, indicate how crowded you have felt while being in the LSCR?

[for each season options are *Very Uncrowded, Somewhat Uncrowded, Neither Crowded nor Uncrowded, Somewhat Crowded, Very Crowded*]

Section 6: Education and Stewardship

26. What types of new or additional programs would you like to see in the LSCR? Please check all that apply.

Watershed management

Local history/ culture

Aquatic habitats

Trail etiquette/ Leave no Trace

Plants/ shrubs/ flowers

The sustainability of the public water supply (in context of climate change)

Forests

Wildlife

Other _____

None – good as is.

27. To what extent are you aware of the LSCR's role in the Metro Vancouver drinking water system?

To a Great Extent

Somewhat

Very Little

Not at All

Section 7: Wayfinding

28. Which of the following do you use for wayfinding and route planning in the LSCR? Please check all that apply.

LSCR brochure

LSCR website

GAIA GPS App

Google Maps

Trail Forks Website/App

Strava

AllTrails Website/App

Other_____

29. Do you think that there is sufficient information for you to find your way in the LSCR? [Yes/No]

30. If you chose no, please explain why_____

Section 8: Safety

31. Have you ever felt unsafe while visiting the LSCR? [Yes/No]

32. Why or why not:

Section 9: Environmental Concerns

33. Within the current LSCR trail network, are there trails with environmental concerns? [Check boxes with trail names]

34. If you selected specific trails above, please elaborate on your concerns_____

Section 10: Demographics

35. Which of the following age groups do you fall into?

20 yrs old or under

21-30 yrs old

31-40 yrs old

41-50 yrs old

51-60 yrs old

61-70 yrs old

71-80 yrs old

81-80 yrs old

90 yrs old or over

36. What municipality do you live in?

District of North Vancouver

City of North Vancouver

Vancouver

Burnaby

West Vancouver

Surrey

Richmond

Coquitlam

New Westminster

Langley

Other, please specify: _____

37. What gender do you identify as?

Female

Male

Non-binary/gender diverse

Prefer not to say

Other (please specify) _____

38. What language(s) do you speak at home?

English

French

Spanish

German

Cantonese

Russian

Farsi

Dutch

Korean

Mandarin

Punjabi

39. Do you have any additional comments about the LSCR? _____

Appendix C

2017 Survey				2022 Survey			
#	Question	Type	Options	#	Question	Type	Options
1A	From the list below, indicate the activities that you do in the LSCR. Please check all that apply.	Check all boxes that apply	Walking; Dog walking; Fishing; Hiking; Tree viewing; Horse-back riding; Kayaking; Trail running; Mountain biking; Road biking; E-biking; Longboarding; Training; Wildlife viewing; Nature appreciation; Dryland X-country skiing; Geocaching; Swimming; In-line skating/ roller skiing; Wheelchair accessible trail activities; Other	2	From the list below, indicate the activities that you do in the LSCR. Please check all that apply.	Drop down list	Walking; Dog walking; Fishing; Hiking; Horse-Back Riding; Kayaking; Trail Running; Mountain Biking; E-Mountain Biking; Gravel Biking; E-Road Biking; Road Biking; Longboarding; Nature Appreciation (E.g., birdwatching, wildlife/tree viewing); Geocaching; Swimming; Wheelchair Accessible Travel; Orienteering; Other
	Blank line	Open-ended		2	Other (please specify)	Open-ended	
1B	What activity do you do most in the LSCR?	Open-ended		3	What activity do you do most in the LSCR?	Drop down list, select 3	Same as Question 2
				3	Other (please specify)	Open-ended	
1C	What is your level of experience for the activity you identified	Check 1 box	Beginner; Intermediate; Experienced	4	What is your level of experience for the activity you identified	Select 1	Beginner; Intermediate; Experienced
1D	On average, how often do you come to the LSCR?	Fill in/ check box	Spring ___/week; Summer ___/week; Winter ___/week; Fall ___/week; This is my first time	5	On average, how often do you come to the LSCR during different times of the year?	Select 1 for each season	Options for each season: Daily; Once per week; Once per month; A few times per year; Rarely; Never
1E	How long have you been coming to the LSCR?	Open-ended		6	How many years have you been coming to the LSCR?	Open-ended	
1F	From the list below, indicate why you come to the LSCR. Check all that apply	Check all boxes that apply	To learn about water supply management; To discover new things; To learn more about nature; To view the scenery; To be close to nature; To breath clean air; To think about my personal values; To get exercise; To give my mind a rest and relax; To have a change from my daily routine; To be with friends; To be with family; Other	7	From the list below, indicate why you come to the LSCR?	Select all that apply	To learn about water supply management; To experience nature; To breath clean air; To think about my personal values; To get exercise; To give my mind a rest and relax; To have a change from my daily routine; To be with friends; To be with family; Other
	Blank line	Open-ended		7	Other (please specify)	Open-ended	

2017 Survey				2022 Survey			
#	Question	Type	Options	#	Question	Type	Options
1G	From the list below, indicate any CONFLICTS that you may have with EACH of the following activities?	Rank 1-5 (never-sometimes-always) for each conflict	Dog walking; Fishing; Hiking; Horseback riding; In-line skating; Kayaking; Mountain biking; Road biking; Wildlife viewing; Training; Nature appreciation walking; Dryland X-country skiing; Trail running; Wheelchair accessible trail activities; Long-boarding; E-biking; Parking; Other	8	From the list below, indicate how often you have had CONFLICTS with EACH of the following:	Rank (Never, Rarely, Sometimes, Frequently, Always) for each conflict	People on Foot; People on Bikes; People on E-Bikes; People on Horses; People with Dogs; Other
1H	Comments	Open-ended		9	If you chose 'Other' for the above question, please indicate which activity you are referring to	Open-ended	
2A	What areas of the LSCR do you use? On the map below, please indicate where you recreate most often.	Draw on map	Map of LSCR				
2B	What are your TOP 3 trails you use most often?	Open-ended		10	Which LSCR trails do you use most often? Please select your TOP 3.	Drop down list	List of LSCR trails
2C	What trail(s) did you use today?	Open-ended					
2D	When you came to the LSCR today, where did you enter?	Open-ended		11	Where do you usually enter the LSCR?	Drop down list	Lillooet Road; Lynn Valley Rd-Pipeline Bridge; Lynn Headwaters Regional Park; Baden Powell Trail; Riverside Drive; Hyannis/Berkely Trailhead; Trails in Neighbouring Jurisdictions on Mt. Seymour (e.g., Bridle Trail, Old Buck); Mushroom Parking Lot; CBC Trailhead; Dog Mountain Trailhead
				12	If you selected 'Other', please indicate where.	Open-ended	
				13	How do you usually travel to the LSCR?	Choose 1	Personal vehicle; Carshare; Public Transportation; By Foot; Bike; Horse
2E	Does the LSCR trail system currently meet your expectations?	Check Y/N		14	Does the LSCR trail system currently meet your expectations?	select Y/N	
2F	Why or why not?	Open-ended		15	Why or why not?	Open-ended	
3A	Based on your experience in the LSCR today, how would you rank the trail conditions:	Rank	Very poor; Fair; Average; Good; Excellent	16	Based on your experience in the LSCR today, how would you rank the trail conditions?	Rank	Very poor; Poor; Acceptable; Good; Very good

2017 Survey				2022 Survey			
#	Question	Type	Options	#	Question	Type	Options
3B	If you rated very poor or poor, please list trails of concern:	Open-ended		17	If you rated very poor or poor, please list trails of concern:	Open-ended	
3C	Based on your experience today, how would you rank the general cleanliness of LSCR's facilities?	Rank	Very poor; Fair; Average; Good; Excellent	18	Based on your experience today, how would you rank the general cleanliness of LSCR's facilities?	rank	Very poor; Poor; Acceptable; Good; Very good
				19	If you rated the cleanliness of facilities poor to very poor, please describe any issues	Open-ended	
4A	Are there areas in the LSCR that do not presently have access which you think would expand recreation opportunities? (ex. Alpine hiking areas)	Open-ended					
4B	Do you think that access to backcountry trails should be improved?	Check Y/N		20	Do you think that access to backcountry trails should be improved?	Select Y/N	
				22	If you selected 'Yes' to the previous question, please indicate why you seek unmarked/unsanctioned trails	Open-ended	
4C	What type of trail setting do you prefer when you are in the LSCR?	Check 1 box	Front-country (e.g., easily accessed natural areas with some facilities); Back-country (e.g., wilderness areas with limited facilities)	23	What type of trail setting do you prefer when you are in the LSCR?	Select 1	Front-country (e.g., easily accessed natural areas with some facilities); Back-country (e.g., wilderness areas with limited facilities)
4D	What kind of trails do you prefer when you are in the LSCR?	Check 1 box	Mountain bike only trails; Hiking only trails; Multi-use trails; Other	24	What kind of trails do you prefer when you are in the LSCR?	Select 1	Mountain bike-primary trails; Hiking-only trails; Multi-use trails; Other
4D	Blank line	Open-ended		24	Other (please specify)	Open-ended	
9A	Consider how many people you are comfortable seeing while you are in the LSCR and complete the following statement: It is ok to have as many as ____ encounters per day.	Fill in					
9B	For each season below, indicate how crowded you have felt while being in the LSCR?	Rank for each season	1-9 Not at all crowded; Somewhat crowded; Moderately crowded; Extremely crowded	25	For each season below, indicate how crowded you have felt while being in the LSCR?	Rank	Very Uncrowded; Somewhat Uncrowded; Neither Crowded nor Uncrowded; Somewhat Crowded; Very Crowded

2017 Survey				2022 Survey			
#	Question	Type	Options	#	Question	Type	Options
5A	What types of new/additional educational/interpretive opportunities would you like to see in the LSCR? Please check all that apply.	Check all boxes that apply	Watershed management; Local history/ culture; Aquatic habitats; Trail etiquette/ Leave no trace; Plants/shrubs/flowers; The sustainability of the public water supply (in context of climate change); Forests; Wildlife; Other; None - good as is.	26	What types of new or additional programs would you like to see in the LSCR? Please check all that apply.	Select all that apply	Watershed management; Local history/ culture; Aquatic habitats; Trail etiquette/ Leave no trace; Plants/shrubs/flowers; The sustainability of the public water supply (in context of climate change); Forests; Wildlife; Other; None - good as is.
	Blank line	Open-ended		26	Other (please specify)	Open-ended	
5B	Would you like to participate in stewardship/trail maintenance volunteer activities?						
6A	Which of the following do you use for wayfinding and route planning in the LSCR? Please check all that apply.	Check all boxes that apply	LSCR brochure; LSCR website; Trail Forks Website/App; GAIA GPS App; Google Maps; Other	28	Which of the following do you use for wayfinding and route planning in the LSCR? Please check all that apply.	select all that apply	LSCR brochure; LSCR website; GAIA GPS App; Google Maps; Trail Forks Website/App; Strava; AllTrails Website/App; Other
6A	Blank line	Open-ended		28	Other (please specify)	Open-ended	
6B	Do you think that there is sufficient information for you to find your way in the LSCR?	Open-ended		29	Do you think that there is sufficient information for you to find your way in the LSCR?	Select Y/N	
				30	If you chose no, please explain why	Open-ended	
7	Have you ever felt unsafe while visiting the LSCR? Why or why not	Open-ended		31	Have you ever felt unsafe while visiting the LSCR?	Select Y/N	
				32	Why or why not?	Open-ended	
8A	Are there areas in the LSCR you'd like to see protected by limiting recreational activities? Please indicate these on the map below	Draw on map	Map of LSCR				
8B	Within the current LSCR trail network, are there trails with environmental concerns?	Open-ended		33	Within the current LSCR trail network, are there trails with environmental concerns?	Select all that apply	List of LSCR trails
				34	If you selected specific trails above, please elaborate on your concerns	Open-ended	
10A	What year were you born in?	Open-ended		35	Which of the following age groups do you fall into?	Select 1	20 yrs old or under; 21-30 yrs old; 31-40 yrs old; 41-50 yrs old; 51-60 yrs old; 61-70 yrs old; 71-80 yrs old; 81-90 yrs old; 90 yrs old or over

2017 Survey				2022 Survey			
#	Question	Type	Options	#	Question	Type	Options
10B	What municipality do you live in?	Open-ended		36	What municipality do you live in?	Select 1	District of North Vancouver; City of North Vancouver; Vancouver; Burnaby; West Vancouver; Surrey; Richmond; Coquitlam; New Westminster; Langley; Other
				36	Other (please specify)	Open-ended	
10C	Gender	Open-ended		37	What gender do you identify as?	Select 1	Female; Male; Non-binary/gender diverse; Prefer not to say; Other
10D	What language(s) do you speak at home?	Open-ended		38	What language(s) do you speak at home?	Select all that apply	English; French; Spanish; German; Cantonese; Russian; Farsi; Dutch; Korean; Mandarin; Punjabi
10E	Do you have any additional comments about the LSCR?	Open-ended		39	Do you have any additional comments about the LSCR?	Open-ended	