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Whales Initiative: Canadians' Awareness and Understanding of Southern Resident killer whales and Boating Safety

Findings report

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Whales Initiative: Canadians' Awareness and Understanding of Southern Resident killer whales and Boating Safety**Final Report**

This public opinion research report presents the results of an online survey conducted by Phoenix SPI on behalf of Transport Canada. The research study was conducted with 1,003 Canadians between January 26 and March 20, 2022.

Cette publication est aussi disponible en français sous le titre Recherche sur l'opinion publique : connaissances et compréhension de la population canadienne concernant les épaulards résidents du sud et la sécurité nautique.

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Table of Contents

Executive Summary	1
Introduction	5
1. Background and Objectives	5
2. Methodology	6
3. Notes to Reader	6
Detailed Findings	7
1. Recreational Watercraft Use and Related Practices	7
2. Awareness and Knowledge of Protective Measures	16
3. Information Sources and Communications-related Habits	20
4. Ad Campaign Recall	23
5. Profile of Respondents	26
Conclusions and Implications for Marketing and Advertising	31
Appendix	32
1. Technical Specifications	32
2. Survey Questionnaire	35

List of Figures

Figure 1: Recreational Watercraft Use	7
Figure 2: Manner in which respondents go/plan to go out on the ocean.....	8
Figure 3: Type of Watercraft Used in the Last Few Years.....	9
Figure 4: Frequency of Recreational Watercraft Use	10
Figure 5: Type of Recreational Watercraft Use.....	11
Figure 6: Use of Depth Finder	12
Figure 7: Purpose of using Depth Finder	13
Figure 8: Frequency of Depth Finder use	14
Figure 9: Life Jacket and Personal Flotation Device Use	15
Figure 10: Knowledge of Measures to protect SRKWs in BC Coastal Waters.....	16
Figure 11: Awareness of Specific Protective and Voluntary Measures	17
Figure 12: Awareness of Specific Protective and Voluntary Measures Over Time	19
Figure 13: Term most commonly used for referral	20
Figure 14: Source of Boating Safety Regulatory Information	21
Figure 15: Daily Habits.....	22
Figure 16: Aided Recall of Ad Campaign.....	23
Figure 17: Source of Ad Recall	24
Figure 18: Recall of Ad Campaign Content, Messages	25
Figure 19: Level of Education	26
Figure 20: Household Income	27
Figure 21: Language Spoken Most Often at Home	28
Figure 22: First Nations, Métis, and Inuk Status	28
Figure 23: Location	29

Figure 24: Respondent Age.....	29
Figure 25: Gender.....	30

Executive Summary

Transport Canada commissioned Phoenix Strategic Perspectives Inc. (Phoenix SPI) to conduct public opinion research with residents of south coastal British Columbia and selected areas of Vancouver Island who use or plan to use recreational watercrafts.

Research Purpose and Objectives

The main purpose of the research was to conduct a follow-up study to the one conducted in 2021 on the awareness of Southern Resident killer whale (SRKW) mandatory and voluntary protective measures and of boating safety in the southern coastal waters of British Columbia. Specific objectives included measuring the awareness of Transport Canada's efforts to protect the SRKW, measuring the awareness and recall of the related advertising campaign, and determining the use of depth finder technology since reducing the impact of underwater noise is one of the goals of the Whales Initiative.

Methodology

An 11-minute random digit dialling (RDD) telephone survey was administered to 1,003 adults aged 18 and older who reside in coastal communities on the south coast of British Columbia and selected areas of Vancouver Island and who meet the eligibility criteria for boating. The fieldwork was conducted January 26 and March 20, 2022. For the purposes of this research, to be classified as a boater, adults must have done the following at least once in the previous 12 months or plan to do so in the coming 12 months:

- 1) own, operate, rent, or be a passenger on a recreational vessel, motorized or sail; and/or
- 2) paddle board, kayak, or canoe on the ocean during this timeframe.

Based on a sample of this size, the overall results can be considered accurate within $\pm 3.1\%$, 19 times out of 20. The margin of error is greater for results pertaining to subgroups of the full sample. Data were weighted to reflect the population in terms of age, gender, and area (with the geographic parameters of the study). For a more complete description of the methodology, refer to the Appendix: 1, [Technical Specifications](#).

Key Findings

More than half are aware there are measures in place to protect Southern Resident killer whales in BC coastal waters. Awareness is considerably lower when the focus is on specific measures.

There was relatively widespread awareness (60%) of protective measures in place to protect Southern Resident killer whales in BC coastal waters (a slight increase from 2021, when 56% said they were aware). Boat owners, year-round watercraft users, Vancouver Island residents, and those aged 35+ were more likely to be aware of the protective measures.

Awareness of the specific mandatory and voluntary protective measures varied considerably. In total, 73% said they were aware (47% definitely, 25% somewhat) of the measure that boats should reduce speed within 1,000 metres of a killer whale. Following this, close to six in 10 were definitely (35%) or somewhat (24%) aware that watercraft must keep 400 metres from killer whales in all

southern BC coastal waters. Awareness of the voluntary measure that fishing should not take place within 1,000 metres of a killer whale was divided: 46% were somewhat (20%) or definitely (26%) aware and 53% were not aware. The majority of respondents were not aware that whale watching boats should not be followed nor were they aware of any of the interim sanctuary zones.

Two-thirds have used a recreational watercraft in the last year. Many go out on the ocean as watercraft passengers.

Two-thirds of respondents have used a recreational watercraft in the last year. Notably, boat owners were more likely than boat renters and passengers to have been out on the ocean in the last year. The rest (34%) intend to go out on the ocean in a recreational watercraft in the next year, either as a boat owner and operator, renter, or passenger.

Among respondents who were out on the ocean this past year, 42% said they went out as a passenger, 32% as a boat owner, and 19% as boat renter. In contrast, 59% of those who plan to go out on the ocean in the next year intend to go as a passenger, 9% as a boat owner, and 22% as a boat renter. Taken together, nearly half the survey respondents (48%) were (or plan to be) passengers, 24% were (or plan to be) boat owners/operators, and 20% rented (or plan to rent) a watercraft.

Power boats and kayaks – most common watercrafts among respondents. More than one-third use a depth finder. Navigational purposes, fishing are the top reasons for using a depth finder.

Approximately four in 10 (43%) have been out on the ocean in a power boat in the last few years, while 31% have been out in a kayak. A range of other watercraft were used or will be used by 14% or fewer respondents. Residents of the Sunshine Coast and Central Vancouver Island were more likely than others to have been out in a power boat in recent years, especially compared to those in Metro Vancouver.

Two in five (37%) use a depth finder when out on the ocean. Boat owners and passengers were more likely to say they use a depth finder compared to watercraft renters. Powerboat users and year-round watercraft users were also more likely to report using a depth finder. Just over two-thirds (68%) who use a depth finder use it for navigational purposes, while 57% use it for fishing. Not surprisingly, boat owners were more likely than passengers to use a depth finder for navigation.

Large majority wear or would wear life jacket or PFD when boating.

In total, 78% always wear or plan to wear a life jacket or personal flotation device (PFD) when out on the ocean. Boat owners and renters were more likely to say they wear a life jacket or PFD compared to watercraft passengers. Seasonal watercraft users were also more likely to report wearing a life jacket or PFD as compared to year-round boaters. Those who go out in kayaks were also more likely to report wearing a life jacket or PFD.

Google – top source for boating safety and regulatory information.

The source for obtaining boating safety and regulatory information used most often by respondents was Google (16%). Following this, 14% turn to friends, family, and colleagues, while almost as many (13%) reported getting this type of information from boat rental shops. Nine percent pointed to Transport Canada and the internet as their main sources of their boating safety and regulatory information. Nine percent of those surveyed said they have never needed to look for this type of information. Boat owners were more likely to say they get their boating safety and regulatory

information from the internet (24%), while renters were more likely to mention boat rental shops (44%) and passengers to point to friends, family, and colleagues (17%).

Roughly half say they recall an ad campaign. Among those who do, one-third recall seeing an ad on TV, with multiple other sources also cited with some frequency. "Help keep killer whales safe" was the message referred to by the plurality of respondents.

Just under half (47%) recalled hearing or seeing an advertisement about protecting the killer whales in BC coastal waters by staying away from them when boating. Boat owners and year-round watercraft users were most likely to recall seeing or hearing an advertisement. Vancouver Island residents were also more likely to recall hearing or seeing an advertisement.

Of those who recall seeing or hearing any advertisement about protecting killer whales in BC coastal waters (n=531), one-third (32%) said they recall seeing an advertisement on television.¹ Just under one-quarter said they recall the advertisement from social media or from the radio (23%, respectively). Respondents from Metro Vancouver and Central Vancouver Island were more likely to say they recall the ad on television. Boat owners were more likely to recall seeing an advertisement on a physical poster, sign, or pamphlet, while passengers were more likely to recall the ad on television.

Twenty-eight percent of those who recalled an ad, said the main message of the ad was "help keep killer whales safe". This was followed by "slow down and stay away if you see a whale", mentioned by 24%. Additionally, 19% said they recall the message of "Stay 400 metres away from killer whales." Boat owners were most likely to recall a message about "stay 400 metres away from killer whales."

Limitations and Use of the Research

Probability sampling was used. The results, therefore, are generalizable to the target population. The only limitation are smaller sample sizes when it comes to analyzing the results for sub-groups of the population. The survey results will be used by Transport Canada to help inform communications planning, outreach and education activities, and to improve boaters' confidence, awareness and compliance with the voluntary and mandatory protective measures for the SRKW and associated boating safety regulations.

Contract Value

The contract value was \$84,709.25 (HST included).

¹ Note: the ad campaign did not air on television. Despite this, television was the medium or source of recall mentioned by the single largest proportion of respondents.

Political Neutrality Certification

I hereby certify as a Senior Officer of Phoenix Strategic Perspectives that the deliverables fully comply with the Government of Canada political neutrality requirements outlined in the *Communications Policy* of the Government of Canada and Procedures for Planning and Contracting Public Opinion Research. Specifically, the deliverables do not contain any reference to electoral voting intentions, political party preferences, standings with the electorate, or ratings of the performance of a political party or its leader.



Alethea Woods
President
Phoenix Strategic Perspectives Inc.

Introduction

Phoenix Strategic Perspectives Inc. (Phoenix SPI) was commissioned by Transport to conduct a survey on boaters' awareness and understanding of Southern Resident killer whales (SRKW) and boating safety.

1. Background and Objectives

Building on the Ocean's Protection Plan in Budget 2018, the Government of Canada introduced a 5-year \$167.4 million Whales Initiative to help protect and support the recovery of the Southern Resident killer whale, the North Atlantic right whale, and the St. Lawrence Estuary beluga whale. In October 2018, the Government of Canada announced an additional \$61.5 million specifically to address threats to Southern Resident killer whales following the finding that the Southern Resident killer whales were facing an imminent threat to their survival.

Through this funding, the Government of Canada is addressing the main threats to the Southern Resident killer whales by:

- Improving prey availability.
- Reducing contaminants affecting whales and their prey.
- Reducing acoustic and physical disturbance from underwater noise generated by vessels.
- Enhancing monitoring under the water and in the air.
- Encouraging compliance and strengthening enforcement.
- Building partnerships for additional action.

For the third year in a row, Transport Canada has put in place an Interim Order under the *Canada Shipping Act, 2001* to help reduce acoustic and physical disturbance from vessels in key areas of importance to the SRKW.

The measures include:

- Creating interim sanctuary zones off Pender Island, Saturna Island and at Swiftsure Bank, which are in effect from June 1 to November 30, 2021. No vessel traffic will be permitted in these areas subject to certain exceptions, including emergency situations and Indigenous vessels.
- Prohibiting vessels from approaching any killer whale within a 400-metre distance. This applies in BC coastal waters between Campbell River and Ucluelet throughout the year. Certain exceptions are in place for authorized ecotourism and whale watching companies who are authorized to approach non-Southern Resident killer whales up to 200m subject to entering into a Sustainable Whale Watching Agreement with the Minister of Transport.
- Asking all vessels to "go slow" and reduce speed to less than seven knots when within 1000 metres of a whale and to stop fishing when within 1000 metres of killer whales. Vessels are also asked to turn off echo sounders and fish finders when safe to do so and turn engines to neutral idle if a whale is within 400 metres.

Given Transport Canada's mandate to promote environmentally-responsible transportation and to put in place measures to address vessel-related threats to endangered whales, the Department commissioned public opinion research to measure awareness of the vessel management measures – both mandatory and voluntary – and of boating safety in the southern coastal waters of British Columbia. The survey results will help to better inform communications planning, outreach, and

education activities, and to improve boaters' confidence, awareness, and compliance with the voluntary and mandatory measures for the SRKW and associated boating safety regulations.

2. Methodology

An 11-minute random digit dialling (RDD) telephone survey was completed with 1,000 adults aged 18 and older who reside in coastal communities located on the south coast of British Columbia and selected areas of Vancouver Island and who met the eligibility criteria for boating. Specifically, this included the coastal communities between Campbell River and Ucluelet on Vancouver Island, and residents of the Sunshine Coast, the Lower Mainland and Howe Sound.

To be classified as a boater, adults must have done the following at least once in the previous 12 months or plan to do so in the coming 12 months:

- 1) own, operate, rent, or be a passenger on a recreational vessel, motorized or sail; and/or
- 2) paddle board, kayak, or canoe on the ocean during this timeframe.

Based on a sample of this size, the overall results can be considered accurate to within $\pm 3.1\%$, 19 times out of 20. The margin of error is greater for results pertaining to subgroups of the total sample.

The data was weighted to reflect the population in terms of age, gender, and region. The fieldwork was conducted January 26 and March 20, 2022. For a more complete description of the methodology, refer to the Appendix: 1, [Technical Specifications](#).

3. Notes to Reader

- All results in the report are expressed as a percentage, unless otherwise noted.
- Throughout the report, percentages may not always add to 100 due to rounding and/or multiple responses being offered by respondents.
- The number of respondents changes throughout the report because questions were asked of sub-samples of survey respondents. Readers should be aware of this and exercise caution when interpreting results based on smaller numbers of respondents.
- Only subgroup differences that are statistically significant at the 95% confidence level and pertain to a subgroup of at least $n=30$ are described in the report. The exception regarding sample sizes is differences indicative of a pattern.
- The survey questionnaire is [appended](#) to the report.
- The tabulated data are available under separate cover.

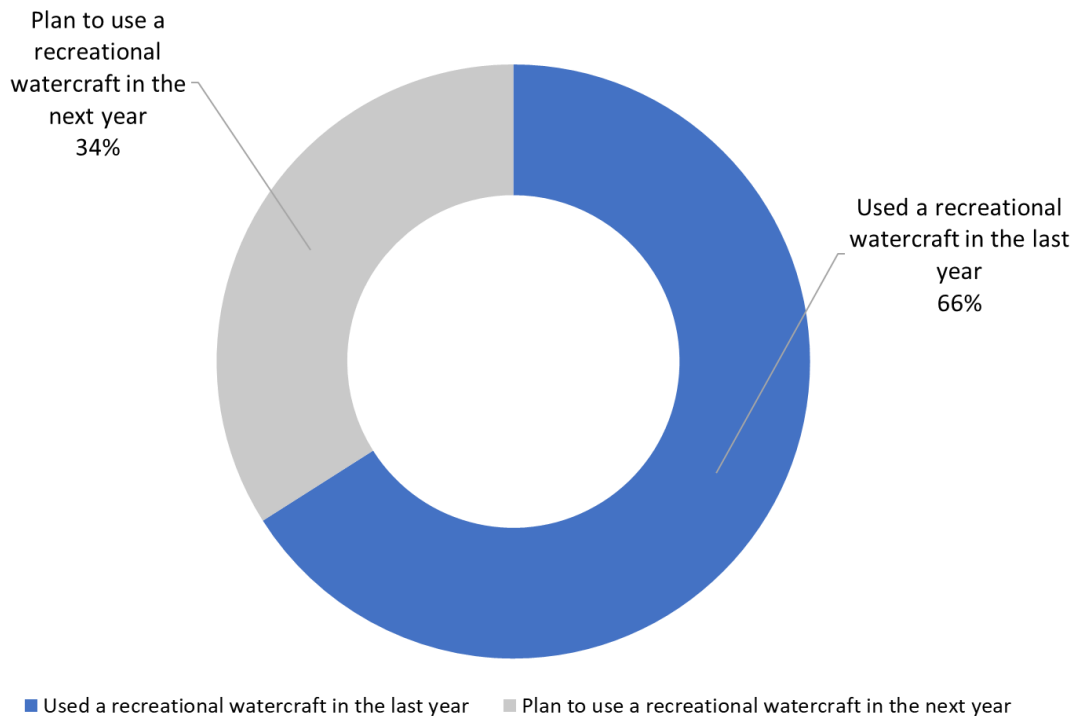
Detailed Findings

1. Recreational Watercraft Use and Related Practices

Two-thirds have used a recreational watercraft in the last year

Two-thirds of respondents (66%) have gone out on the ocean in or on a recreational watercraft in the last year. By design, the remainder (34%) plan to use a recreational watercraft in the coming year.

Figure 1: Recreational Watercraft Use



SCR. 1A. In the last year, did you go out on the ocean in or on a recreational watercraft?

SCR. 1B. In the next year, do you plan to go out on the ocean in or on a recreational watercraft?

Base: n=1,003; all respondents

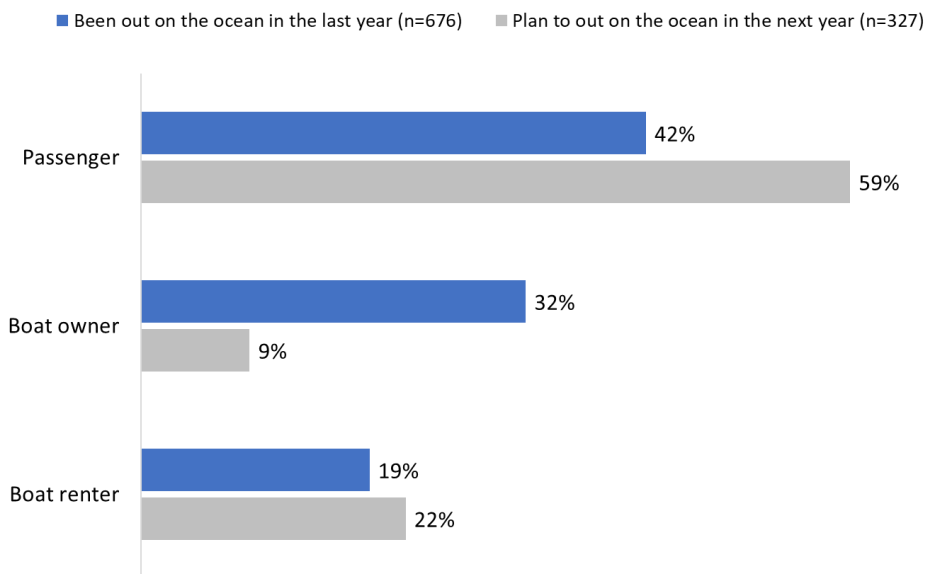
Boat owners (87%) were significantly more likely than renters (62%), passengers (58%), and those who go out in multiple roles (62%) to have been out on the ocean in the last year. In addition, respondents from South Vancouver Island (77%), Central Vancouver Island (74%) and the Sunshine Coast (74%) were more likely than those from Metro Vancouver (63%) to report having been out on the ocean in the last year, as were those between 35 to 54 years old (69% versus 61% of those 55 or older) and respondents from higher income households (68% of those from households with incomes of \$60,000 to under \$100,000 and 73% of those with incomes of \$100,000 and over versus 48% of those from lower income households). Those who use depth finders (81%) were more likely than those who do not use a depth finder (72%) to have been out on the ocean in the last year.

Largest proportion go out on the ocean as passengers

Among respondents who were out on the ocean this past year (n=676), 42% said they went out as a passenger, 32% as a boat owner, and 19% as boat renter. In contrast, 59% of those who plan to go out on the ocean in the next year (n=327) intend to go as a passenger, 9% as a boat owner, and 22% as a boat renter.

Taken together, nearly half of survey respondents (48%) were (or plan to be) passengers, 24% were (or plan to be) boat owners/operators, and 20% rented (or plan to rent) a watercraft. Eight percent reported doing, or planning to do, a combination of these things (i.e., going out as a passenger and a boat renter, or as a boat owner and a passenger, etc.).

Figure 2: Manner in which respondents go/plan to go out on the ocean



SCR2A/B. When you were out on the ocean this year/go out on the ocean in the next year, will you go out/did you go out as a watercraft owner, renter, or passenger? [multiple responses accepted]

Base: all respondents; [DK/NR: 1%].

The following subgroup differences of those who went out, or plan to go out on the ocean were noteworthy:

- Passengers were more likely to mention using a power boat² (56%) than a kayak (25%), to be from Metro Vancouver (49%) and Sunshine Coast (53%) than from Central Vancouver Island (37%), to use a depth finder (50%) than to not use one (40%), to have a high school diploma or less (55%) and Trades school or college degree (54%) than to have a bachelors degree or higher (40%), and to have a household income of under \$60,000 (53% versus 42% of those with an income of \$100,000 or higher).

² When used here and throughout the report, 'power boat' refers to motor boats and speed boats.

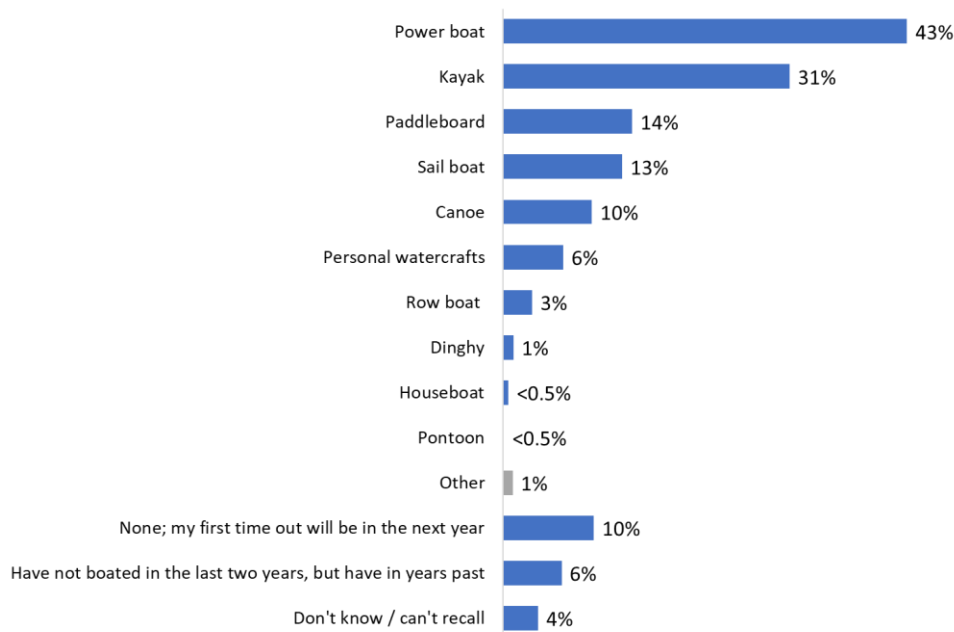
- Boat owners were more likely to be from Central (47%) or South Vancouver Island (37%) than from Metro Vancouver (19%), be older (30% are aged 55+ versus 16% who are 18 to 34 and 24% who are 35 to 54 years of age), to have used a kayak (35%) rather than a power boat (22%) the last year, to go out year-round (47%) rather than seasonally (24%), and to recall ads (29%) than not recall ads (19%).
- Renters were more likely to be younger (30% are aged 18 to 34 years and 22% 35 to 54 years of age versus 12% who are aged 55+), from Metro Vancouver (24%), to have a bachelors degree or higher (25%) than those with a trades or college degree (14%), to not be aware of the protective measures (30%), to not recall ads (25%), be a seasonal boaters (22%), to not use a depth finder (27%), and to have used a kayak (31%) rather than a power boat (14%) in the last year.

Power boats and kayaks – most common watercrafts among respondents

Forty-three percent (43%) of survey respondents have been out on the ocean on a power boat in the last few years, most likely to be a passenger or boat owner. Fewer (31%), but still almost one-third, said they have been out on the ocean in a kayak (inflatable or hard shell), most likely as an owner or renter.

These results are similar to the proportions from the previous study conducted in 2021, when 42% said they had been out on a power boat and 33% on a kayak. Additionally, these were the top types of watercrafts mentioned, by a wide margin. Following power boats and kayaks, smaller and similar proportions said they have been out on a paddleboard (14%), a sailboat (13%), or a canoe (10%). The full range of watercrafts identified can be found in Figure 3.

Figure 3: Type of Watercraft Used in the Last Few Years



Q3. What type of recreational watercraft have you used on the ocean in the last few years? [multiple responses accepted]

Base: n=1,003; All respondents.

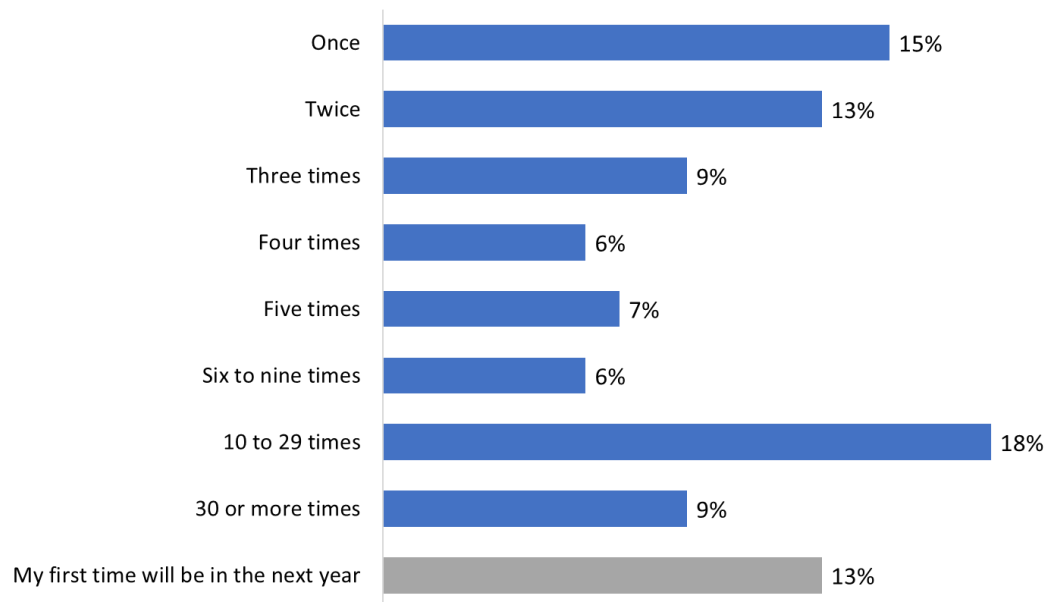
Respondents who went out on the ocean in a power boat were more likely to have been located on Sunshine Coast (56%) and Central Vancouver Island (55%), particularly compared to those in Metro Vancouver (40%). This was also the case for those reporting annual household incomes of \$100,000 or more. They were more likely than respondents from lower-income households to report having used a power boat in the last year (47% of those with incomes of \$100,000 and more compared to 35% of those with incomes under \$60,000). Those who went out on a power boat were most likely to be passengers (51%), be aware of the protective measures (48%), use a depth finder (74%) and recall ads (49%).

Kayak users were more likely to be 18 to 34 and 35 to 54 years of age (36% and 33% respectively versus 25% of those aged 55+), to be boat owners and renters (44% each) than passengers (29%), to not use a depth finder (44%), to be from South Vancouver Island (41%) compared to those from Metro Vancouver (29%) and Sunshine Coast (27%), to have a household income of \$60,000 to just under \$100,000 (36%) than those with an income of under \$60,000 (26%), and to be female (36% versus 26% of males).

Considerable variety in terms of number of times out boating in a typical year

In a typical year, roughly three in ten respondents said they go out on the ocean in a watercraft for recreational purposes once (15%) or twice (13%). At the other end of the spectrum, an additional three in ten are typically out on the ocean 10 to 29 times (18%) or 30 or more times (9%). Most of the rest (28%) said they are out on the ocean three to nine times in a typical year. Notably, 13% are first-time watercraft users—that is, they volunteered that they do not typically go out on the ocean in a watercraft or that their plans to go out in the next year will be their first time on the ocean in a watercraft for recreational purposes.

Figure 4: Frequency of Recreational Watercraft Use



Q4. On average, how many times a year do you typically go out on the ocean in a watercraft for recreational purposes?
Base: n=1,003; All respondents. [DK/NR: 3%].

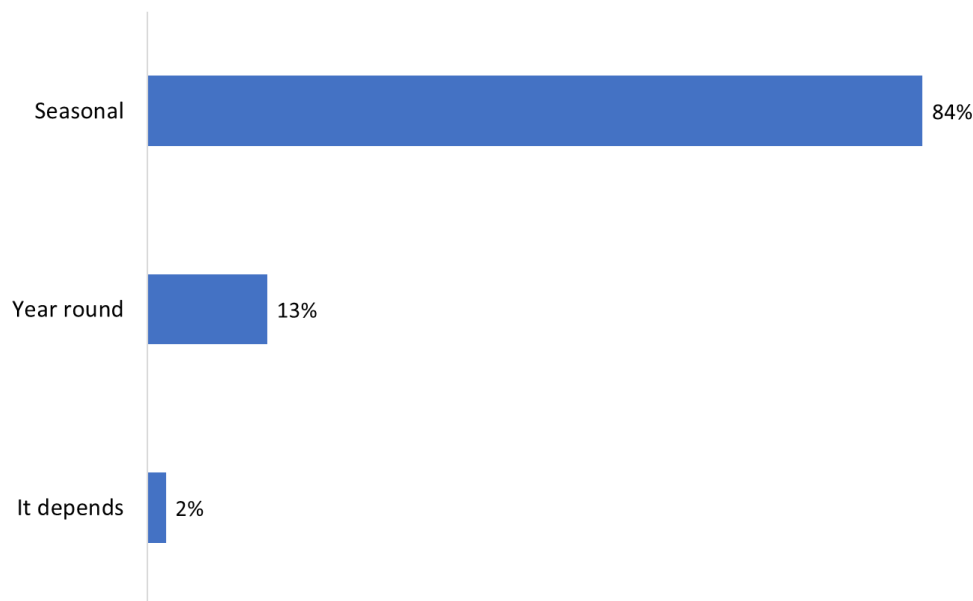
These proportions are similar to the previous study of 2021 when one third said they went out no more than twice a year, one-quarter said they went out on the ocean 10 or more times, and 28% said they went out between three to nine times.

Boat owners were more likely than others to report going out on the ocean 10 or more times in a typical year.

For vast majority, recreational watercraft is a seasonal activity

The vast majority of coastal BC residents surveyed (84%) tend to go out on the ocean in a recreational watercraft as a seasonal activity. In contrast, 13% do so year-round, while 2% volunteered that it depends. These results are relatively unchanged from the previous study – 85% said it was a seasonal activity, 13% it was a year-round, and 1% said it depended.

Figure 5: Type of Recreational Watercraft Use



Q5. Do you tend to go out on ocean in a watercraft all year long or is this a seasonal activity?

Base: n=851; Respondents who typically go out on the ocean in a watercraft for recreational purposes. [DK/NR: 1%].

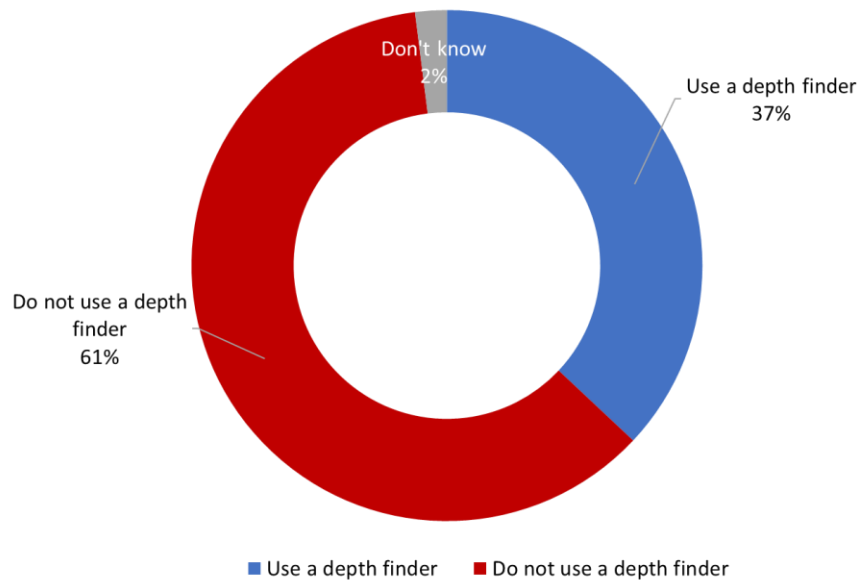
Those who typically go out on the ocean in or on a watercraft for recreational purposes all year round were more likely to be boat owners (23%), to be aware that there are measures in place to protect SRKW in BC coastal waters (16%), to live on South (25%) or Central (19%) Vancouver Island, to use a depth finder (20%), to recall ads (17%), and to be aged 55 and older (15%) compared to those 18 to 34 years old (8%).

The likelihood of going out on the ocean on a seasonal basis was higher among those not aware of the protective measures (92%), to be boat renters (90%) or passengers (86%) compared to boat owners (76%), to live in Metro Vancouver (87%), not use a depth finder (88%), not recall ads (87%), and be under 35 years of age (90%).

More than one-third use a depth finder

More than a third of respondents (37%) who typically go out in a watercraft for recreational purposes said they use a depth finder when they go out on the ocean. Conversely, 61% said they do not use a depth finder, while 2% volunteered that they did not know.

Figure 6: Use of Depth Finder



Q5A. When out on the ocean for recreational purposes, have you used a depth finder, also sometimes called an echo sounder?

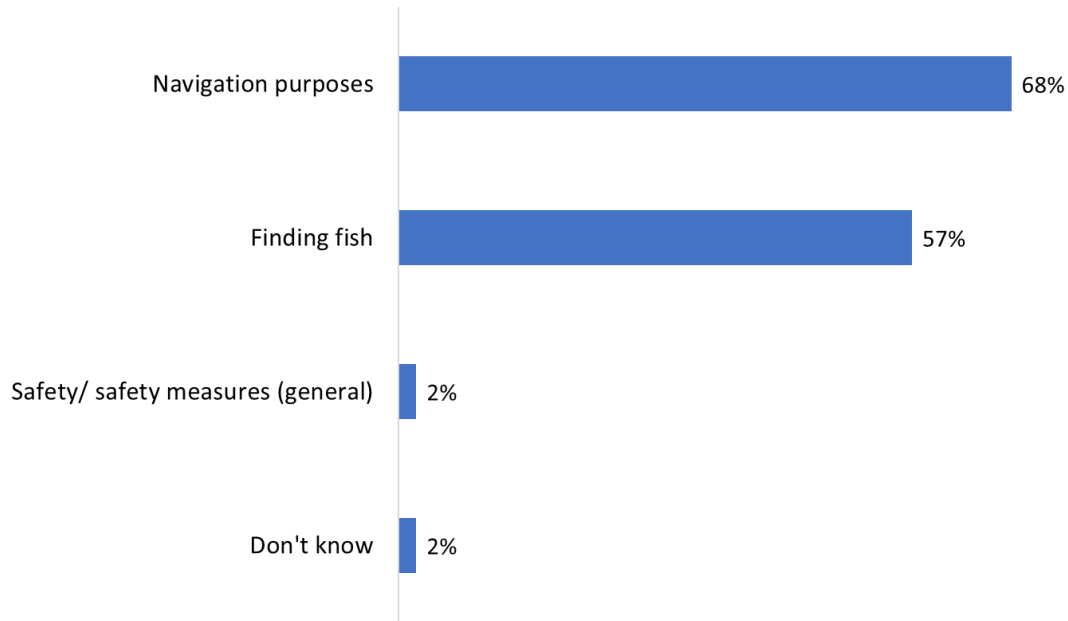
Base: n=851; Respondents who typically go out on the ocean in a watercraft for recreational purposes.

The likelihood of using a depth finder was higher among those who use watercraft multiple ways (45%), and boat owners (42%) and passengers (42%) compared to boat renters (16%). Furthermore, those who went out in a powerboat (55%), are year-round boaters (56%), are aware that there are measures in place to protect SRKW in BC coastal waters (44%), and to recall the ads (44%) were most likely to use a depth finder. Additionally, those who live in Central Vancouver (52%) compared to Metro Vancouver (33%), are men (47%), and 55 years old and older (43%) compared to those 18 to 34 years old (28%) are more likely to use a depth finder.

Navigational purposes, fishing – top reasons for using a depth finder

Respondents who use a depth finder were asked why they use it. Navigational purposes was the reason mentioned most often, cited by 68%. This was followed by 57% saying they use a depth finder for finding fish. Few (2%) said they use a depth finder for safety or safety measures in general.

Figure 7: Purpose of using Depth Finder



Q5B. For what purpose have you used a depth finder? [multiple responses accepted]

Base: n=353; Respondents who typically go out on the ocean in a watercraft for recreational purposes and use a depth finder

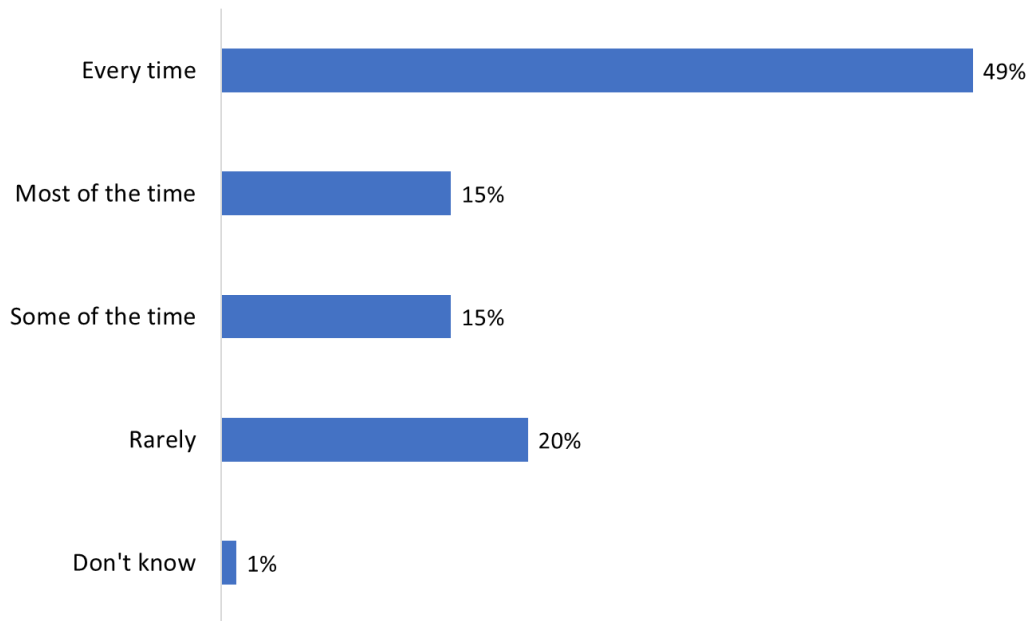
Boat owners (78%) were more likely than passengers (62%) to use a depth finder for navigation purposes. Additionally, those who go out on a recreational watercraft all year (81%) were more likely to use it for navigation than those who only go out seasonally (63%).

Those who are Indigenous (76%) were more likely than non-Indigenous (55%) to use a depth finder for finding fish.

Half use a depth finder every time boating

Of those who use a depth finder when out on a recreational watercraft, half (49%) said they used a depth finder every time. Following this, 15% each said they used it either most of the time or some of the time, with 20% saying they rarely used a depth finder.

Figure 8: Frequency of Depth Finder use



Q5C. How frequently do you use a depth finder when out on the ocean for recreational purposes?

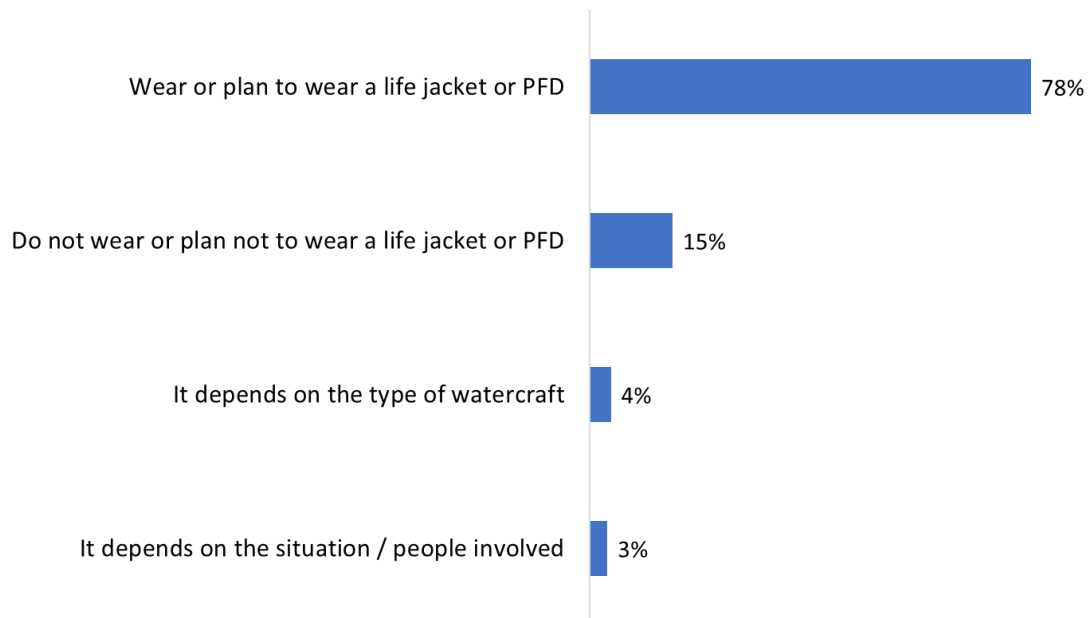
Base: n=353; Respondents who typically go out on the ocean in a watercraft for recreational purposes and use a depth finder

Residents of Central (63%) and South (54%) Vancouver Island were more likely to say they use a depth finder every time they go out, especially compared to those from Sunshine Coast (31%).

Large majority wear or would wear life jacket or PFD when boating

The large majority of respondents (78%) said they wear or plan to wear a life jacket or personal flotation device (PFD) when they go out on the ocean. Among the rest, 14% reported not wearing or planning not to wear a life jacket or PFD, while 4% volunteered that whether they wear a life jacket or PFD depends on the type of watercraft. As well, 3% said it depends on the situation and people involved.

Figure 9: Life Jacket and Personal Flotation Device Use



Q6. When you go out on the ocean, do you wear a life jacket or personal flotation device?

Q6B. When you go out on the ocean in the next year, do you plan to wear a life jacket?

Base: n=1,003; All respondents. [DK/NR: <0.5%]

The following groups were more likely to say they wear a life jacket or PFD when out on the ocean: boat owners (79%) and boat renters (89%), kayakers (84%), seasonal watercraft users (80%), and those who do not use a depth finder (82%).

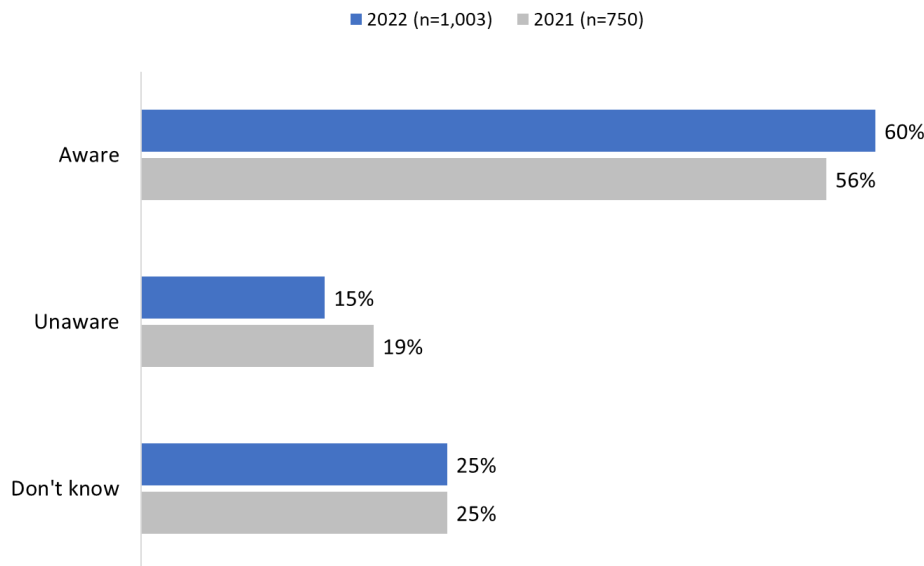
The sample size for those who plan to go out on the ocean in the next year is too small for subgroup analysis.

2. Awareness and Knowledge of Protective Measures

Relatively widespread awareness of measures to protect Southern Resident killer whales

There was relatively widespread awareness (60%) of protective measures in place to protect Southern Resident killer whales in BC coastal waters. This is a slight increase from the previous study in 2021, when 56% said they were aware. Conversely, 15% were not aware of these protective measures, a decrease from 19% in 2021. As well, 25% were unsure (unchanged from 2021).

Figure 10: Knowledge of Measures to protect SRKWs in BC Coastal Waters



Q1. To the best of your knowledge, are there any protective measures in place to protect Southern Resident Killer whales in BC coastal waters?

Base: n=1,003; All respondents.

The following groups were more likely to be aware that there are measures in place to protect Southern Resident killer whales:

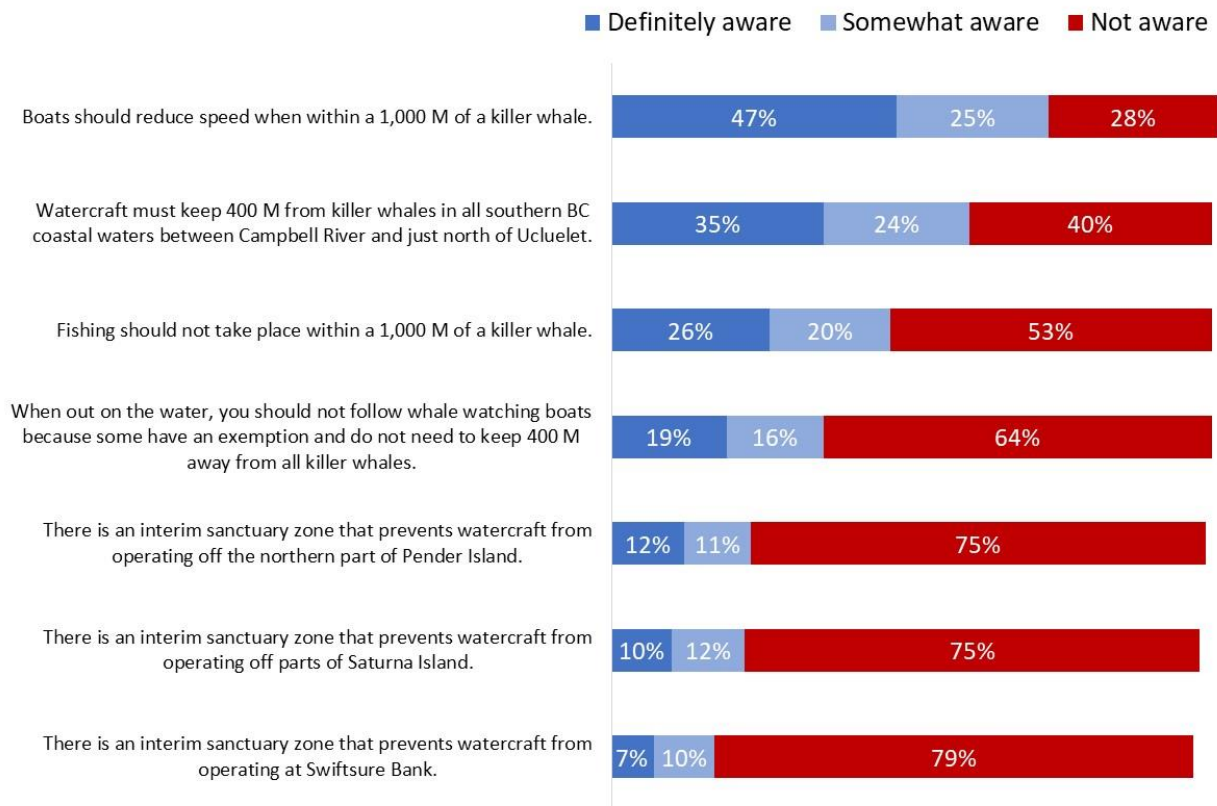
- Have been out on the ocean in the past year (63%).
- Boat owners (68%).
- Year-round watercraft users (77%).
- Use a depth finder (74%).
- Recall ads (74%).
- Central Vancouver Island residents (67%) and South Vancouver Island residents (76%).
- Respondents aged 35 and older (59% of those 35 to 54 and 76% of those aged 55 and older).
- Respondents with a bachelor's degree or higher (64%) than those with high school diplomas or less (49%).
- Have a household income of \$100,000 or over (66%) than those with incomes less than \$60,000 (55%).

Varied awareness of specific mandatory and voluntary protective measures

After being asked about protective measures in general, respondents were informed that there are mandatory and voluntary measures in place designed to protect Southern Resident killer whales. These measures were then read to respondents who were asked to indicate whether they are aware of each, either definitely or vaguely aware. The measures included:

- Interim sanctuary zones that prevent watercraft from operating off the northern part of Pender Island, Saturna Island and at Swiftsure Bank.
- Watercraft must keep 400 metres from killer whales in all southern BC coastal waters between Campbell River and just north of Ucluelet.
- Whale watching boats cannot be followed because some have an exemption and do not need to keep 400 metres away from all killer whales.³
- Boats should reduce speed when within 1,000 metres of a killer whale.
- Fishing should not take place within 1,000 metres of a killer whale.

Figure 11: Awareness of Specific Protective and Voluntary Measures



Q2A – Q2G. [DK/NR: Ranged from 1 to 4%].

Base: n=1,003; All respondents.

In total, 73% said they were aware (47% definitely, 25% somewhat) of the measure that boats should reduce speed within 1,000 metres of a killer whale. Following this, close to six in 10 were

³ This is a voluntary not mandatory measure—i.e., whale watching boats *should* not be followed.

definitely (35%) or somewhat (24%) aware that watercraft must keep 400 metres from killer whales in all southern BC coastal waters. Awareness of the voluntary measure that fishing should not take place within 1,000 metres of a killer whale was much less: 46% aware versus 53% not aware (the rest volunteered that they did not know).

The majority of respondents were not aware that whale watching boats should not be followed nor were they aware of any of the interim sanctuary zones.⁴

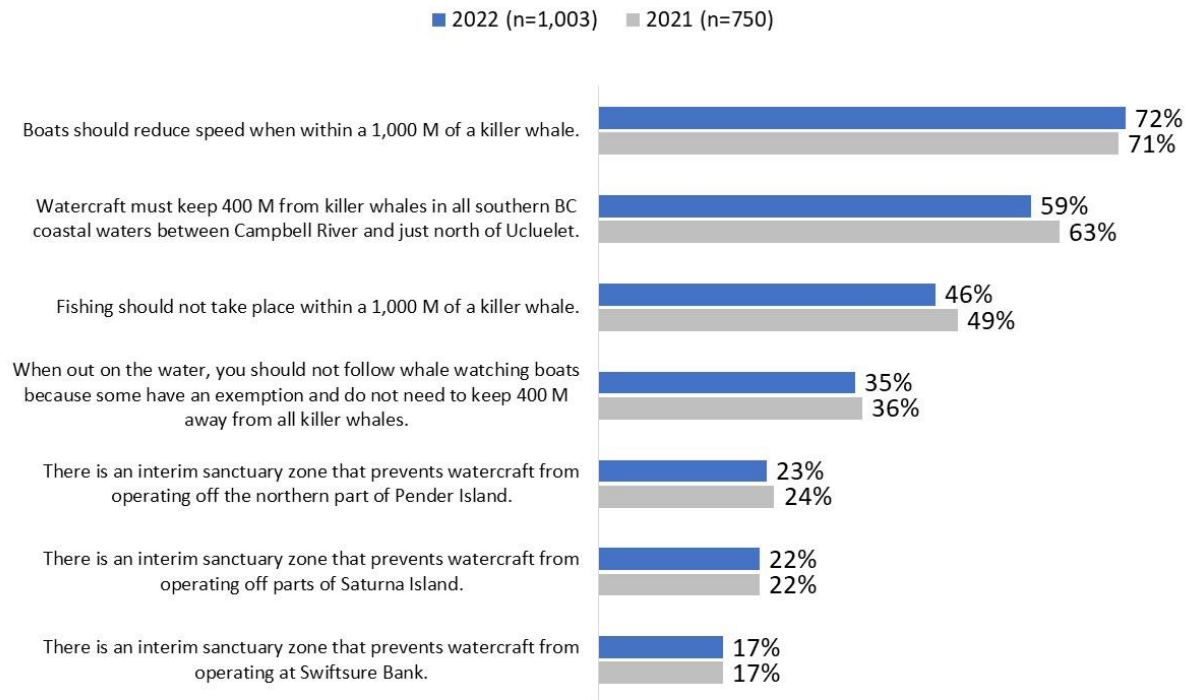
Awareness of these measures varied by subgroup. Specifically:

- Boat owners, year-round watercraft users, and depth finder users were more likely than other recreational watercraft users to be definitely aware that watercrafts must keep 400 metres from killer whales (50%, 55%, and 51%, respectively) and that boats should reduce speed when within 1,000 metres of a killer whale (58%, 59%, and 62% respectively).
- Depth finder users and those who recall ads also more likely than those who do not use a depth finder or those who do not recall ads to be definitely aware that fishing should not take place within 1,000 metres of a killer whale (38% versus 21% of depth finder users, and 32% versus 19% of ad recall).
- Awareness of several of these measures was also higher among residents of Vancouver Island compared to Metro Vancouver. Residents of Central and South Vancouver Island were more likely to be definitely aware that watercraft must keep 400 metres from killer whales (53% and 51%, respectively, versus 30% of residents of Metro Vancouver). In addition, residents of Central and South Vancouver Island were more likely to be definitely aware that boats should reduce speed when within 1,000 metres of a killer whale (60% and 58%, respectively, versus 43% of respondents from Metro Vancouver). Furthermore, residents of South Vancouver Island were more likely to be definitely aware that you should not follow whale watching boats (26% versus 18% of respondents from Metro Vancouver).
- Those aged 55+ were more likely than younger respondents to definitely be aware that fishing should not take place within 1,000 metres of a killer whale (28%), that boats should reduce speed when within 1,000 metres of a killer whale (60%), that you should not follow whale watching boats (24%), and that watercraft must keep 400 metres from killer whales in all southern BC coastal waters between Campbell River and just north of Ucluelet (50%).

⁴ The statement read to respondents suggested that this is mandatory rather than voluntary. This could have affected self-assessed awareness. However, upon review of the data, this does not seem to be the case. Only 1-4% of respondents said they don't know, and awareness was evenly split between definitely and somewhat.

The following graph, Figure 12, compares the overall awareness of protective measures between the baseline survey in 2021 and the current survey of 2022.⁵ As can be seen, the overall awareness for each measure has changed little over time. No movement in either direction exceeded four percentage points.

Figure 12: Awareness of Specific Protective and Voluntary Measures Over Time



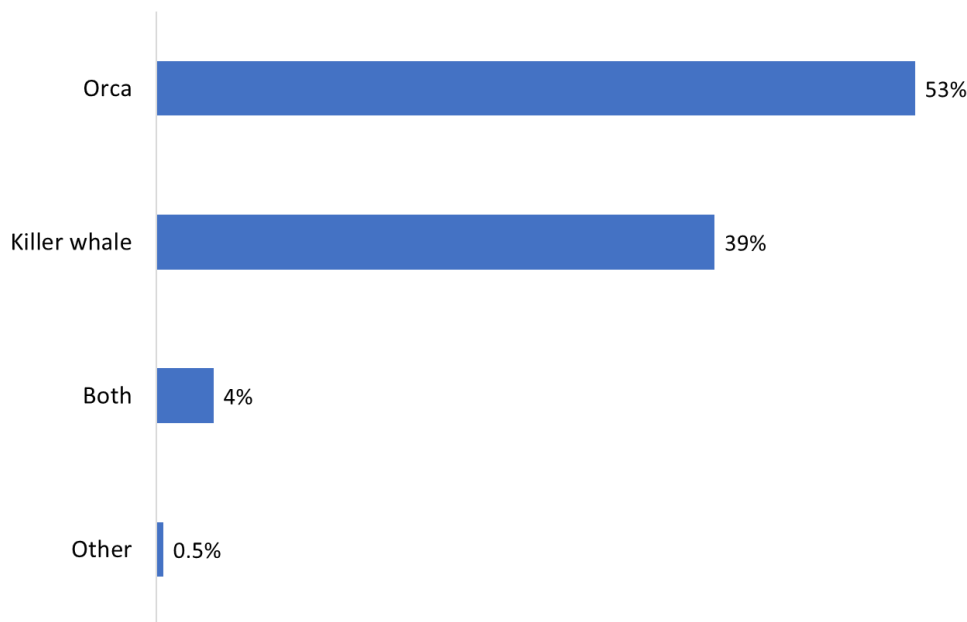
⁵ The measures of definitely and vaguely (2021) or somewhat (2022) were combined to create overall awareness.

3. Information Sources and Communications-related Habits

'Orca' – term used most often

When asked what term they use most often to refer to killer whales, just over half (53%) said they use the term 'orca'. In contrast, 39% said they mainly use the term 'killer whale'. Four percent volunteered that they use both terms interchangeably, while less than 1% use a different term all together.

Figure 13: Term most commonly used for referral



Q3A. Killer whales are also referred to as 'Orcas'. Which term do you most commonly use?
Base: n=1,003; all respondents. [DK/NR: 4%].

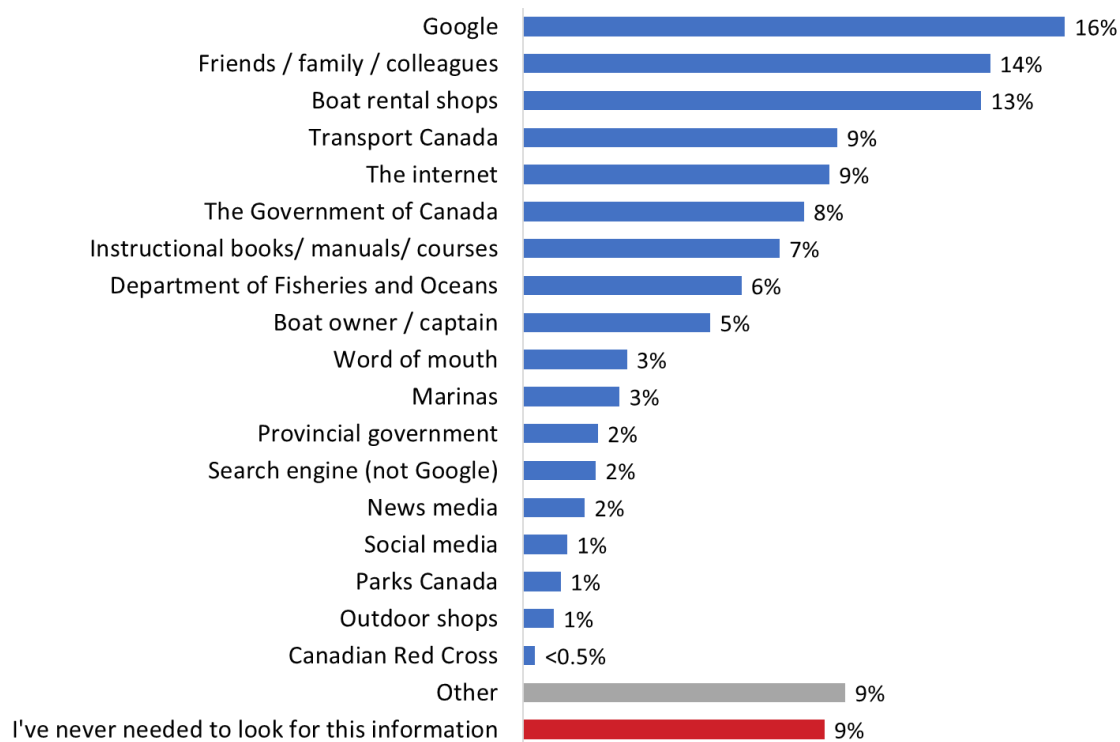
Residents of South Vancouver Island (72%) were the most likely to say they use the term 'orca'. Conversely, respondents of Metro Vancouver (42%) and Central Vancouver Island (39%) were more likely to use the term 'killer whale'. Those who have an annual income of \$60,000 to just under \$100,000 (61%) were more likely than those with an income under \$60,000 (48%) to use the term 'orca'.

Google – top source for boating safety and regulatory information

The source for obtaining boating safety and regulatory information used most often by respondents was Google (16%). Following this, 14% turn to friends, family, and colleagues, while almost as many (13%) reported getting this type of information from boat rental shops. Nine percent pointed to Transport Canada and the internet as their main sources of their boating safety and regulatory information. Figure 14 displays the full range of sources mentioned by respondents. Nine percent of those surveyed said they have never needed to look for this type of information.

Canadians' Awareness and Understanding of Southern Resident killer whales and Boating Safety

Figure 14: Source of Boating Safety Regulatory Information



Q7. Where do you get your boating safety and regulatory information? [multiple responses accepted]

Base: n=1,003; All respondents. [DK/NR: 7%].

Respondents who mentioned the internet as their source of boating safety and regulatory information were asked to specify which websites they use. A wide variety of sites was mentioned, each by very small numbers of respondents. Examples include Power Squadron (Canadian Power and Sail Squadrons), the Coast Guard, BC Boating, 'government websites', fishing websites, sailing and boat clubs, and licensing websites.

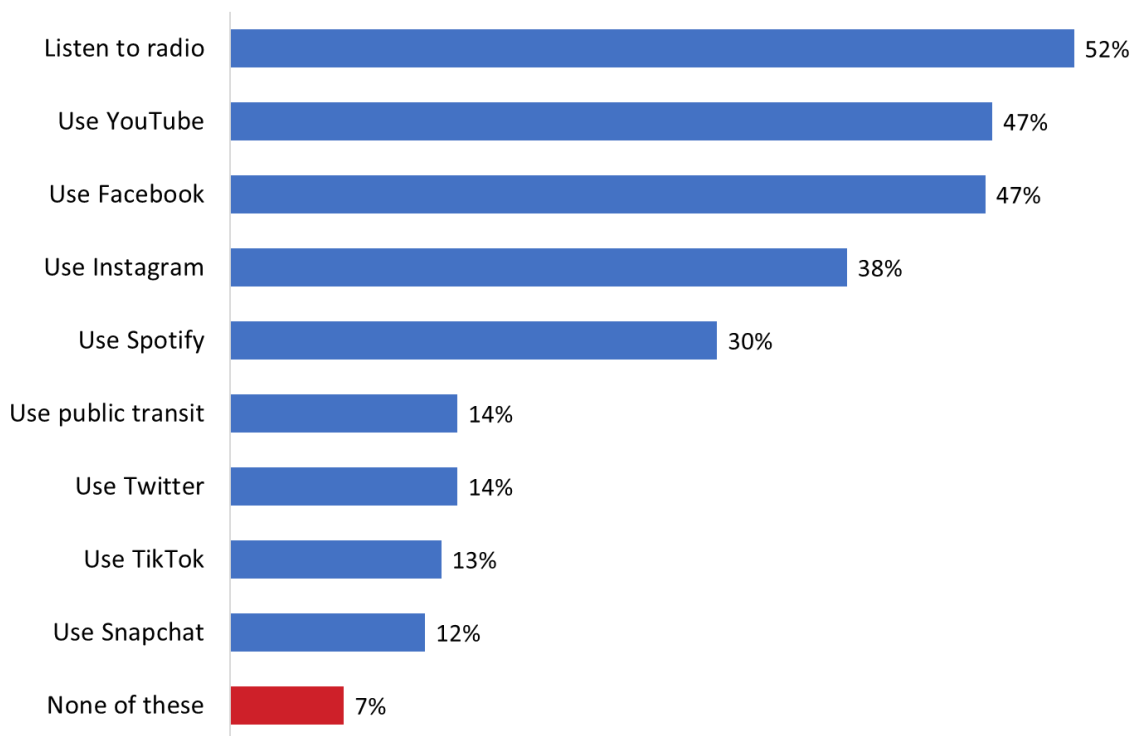
Boat owners were more likely to say they get their boating safety and regulatory information from Transport Canada (15%) and instructional books, manuals, and courses (14%). Renters and seasonal boaters were more likely to mention boat rental shops (44% and 16%, respectively), while passengers were more apt to point to friends, family and colleagues and the boat captain or owner (17% and 9%, respectively). The likelihood of mentioning the federal government was higher among boat owners, those aware of the protective measures, and those who use watercraft year-round.

Approximately half listen to the radio or use YouTube, Facebook on daily basis

When asked to identify from a list of activities what they do on a daily basis, approximately half said they listen to the radio (52%) or use YouTube (47%) or Facebook (47%) every day. Daily use of Instagram was also relatively widespread (38%).

Following this, 30% said they use Spotify on a daily basis. Other social media are used daily by significantly smaller proportions: 14% reported using Twitter daily, 13% TikTok, and 12% Snapchat. Fourteen percent (14%) said they typically use public transit every day. Seven percent volunteered that they do none of these activities on a daily basis.

Figure 15: Daily Habits



Q8. Which of the following do you typically do on a daily basis? [multiple responses accepted]

Base: n=1,003; All respondents. [NR: <0.5%].

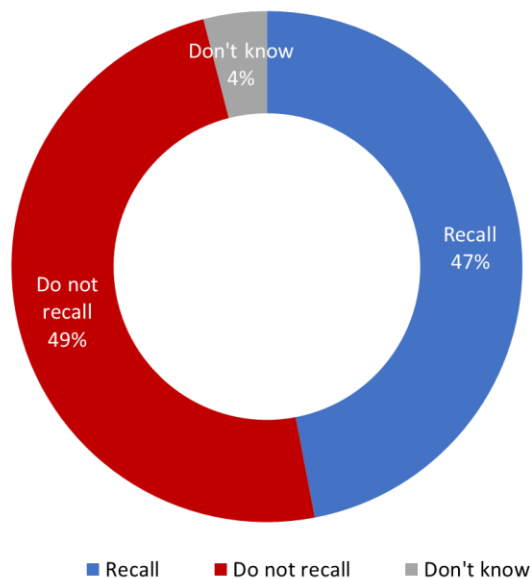
Boat owners (60%) were more likely to report listening to the radio on a daily basis compared to passengers (48%). Boat renters were most likely to use YouTube (59%), Instagram (51%), TikTok (22%), Snapchat (20%) and public transit (21%) on a daily basis. Similarly, seasonal watercraft users were most likely to use YouTube (50%), Spotify (34%), TikTok (13%), and Snapchat (13%).

4. Ad Campaign Recall

Roughly half say they recall ad campaign

Respondents were asked if in the past year they recalled seeing or hearing any advertisement about protecting the killer whales in BC coastal waters by staying away from them when boating. Just under half (47%) said they recalled hearing or seeing such an advertisement.⁶ Conversely, 49% said they did not recall seeing an advertisement. Four percent were uncertain.

Figure 16: Aided Recall of Ad Campaign



Q9. In the past year, do you recall seeing or hearing any advertisements about protecting the killer whales in BC coastal waters by staying away from them when boating?

Base: n=1,003; All respondents.

Respondents from Central and South Vancouver Island (58% respectively) were more likely to recall hearing or seeing an advertisement about protecting the killer whales in BC coastal waters by staying away from them when boating than those living in Metro Vancouver (44%). Boat owners (57%), year-round watercraft users (63%), those aware of the protective measures (59%) and those aged 55+ (62%) were most likely to recall seeing or hearing an advertisement.

The ad campaign ran from July 2021 until the election was called in August 2021 when it was paused and resumed at the end of September 2021 through to October 2021 and included digital (web

⁶ Aided recall tends to be higher than unaided recall in survey research like this. If respondents had been asked only about advertisements pertaining to killer whales, the proportion reporting recall likely would be lower. Put simply, this data might overstate recall, especially considering nearly one-quarter could not recall anything about the ads themselves when asked later in the survey.

banner ads and social media ads), radio announcements, as well as billboard and transit shelter ads with various messages designed to raise awareness of the measures in place to protect SRKW in BC coastal waters among residents, and among boaters, in particular.

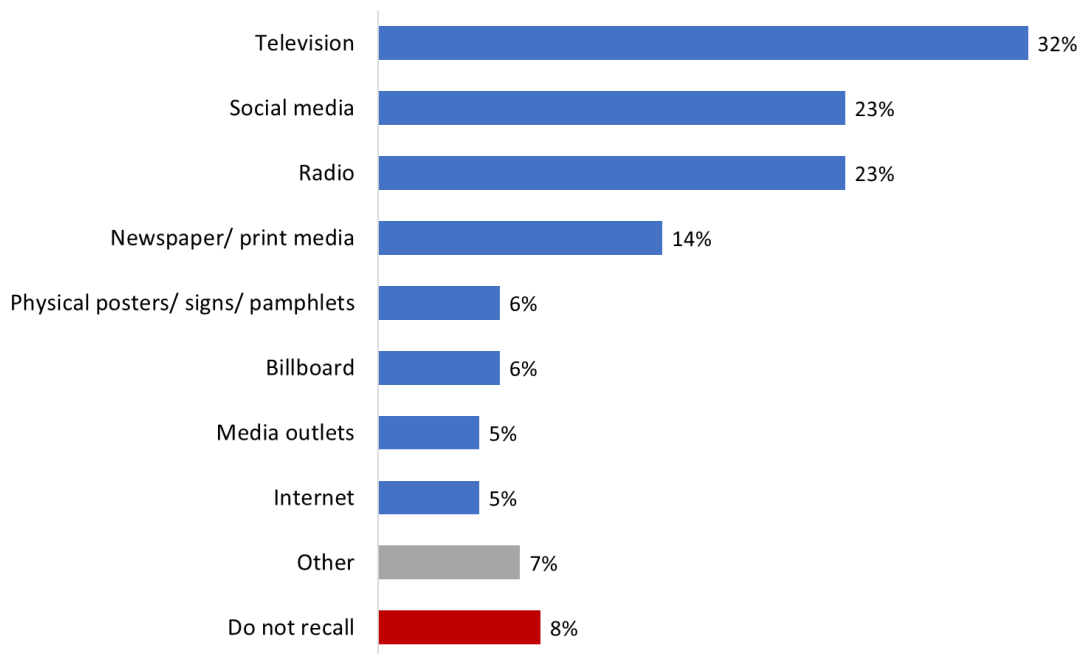
One-third recall seeing ad on TV, multiple other sources also cited with some frequency

Of those who recall seeing or hearing any advertisement about protecting killer whales in BC coastal waters (n=531), one-third (32%) said they recall seeing an advertisement on television. Roughly one-quarter (23%) cited social media, while an equal number identified radio as their source of ad recall. Within the 23% who cited social media – 14% pointed to Facebook, 7% YouTube, 3% Instagram or Twitter, and 1% TikTok or other social media platforms. Following this, 14% said they recall seeing an advertisement in the newspaper or print media.

It should be noted that the advertising campaign did not air on television, nor did it appear in newspapers or other print publications. Despite this, the single largest proportion of respondents pointed to television and a smaller proportion to newspapers and other print publications. This is not uncommon when measuring recall of ads. Respondents defer to the medium they use most often and assume this is where they saw or heard the ad. The other possibility is that Transport Canada's advertising campaign is being confused with that of a similar campaign running at the same time on television and in print media.

Other sources were cited by much smaller proportions: 6% said physical posters/signs/pamphlets and billboards, 5% each said media outlets in general and the Internet. Eight percent of respondents did not recall where they saw or heard the advertisement.

Figure 17: Source of Ad Recall



Q10. Where do you recall seeing or hearing these advertisements?

Base: n=531; Respondents who recall seeing or hearing any advertisements about protecting the killer whales in BC coastal waters.

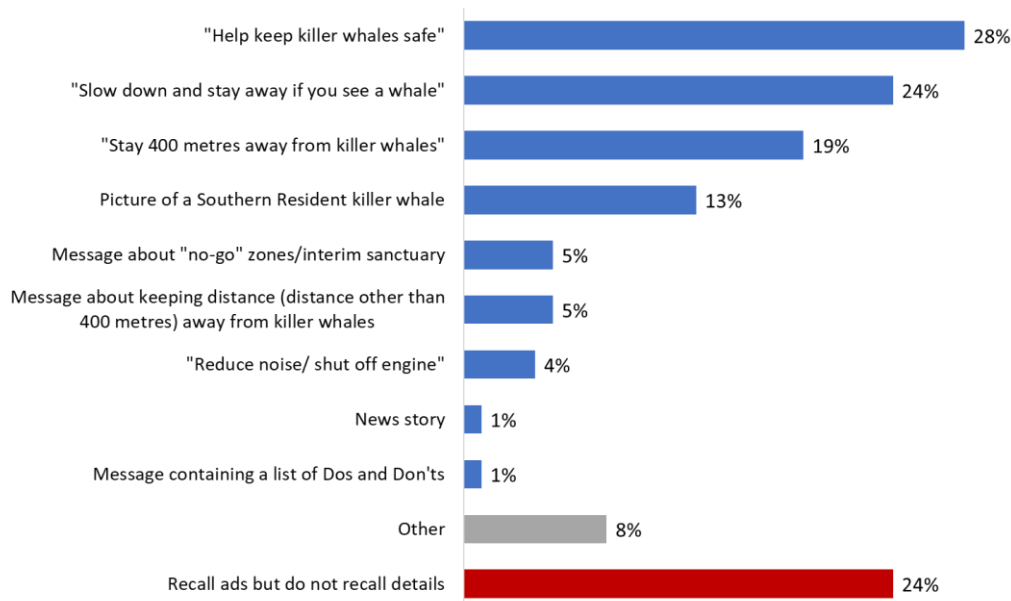
Boat owners were more likely to recall seeing an advertisement on a physical poster, sign, or pamphlet (10%). Passengers were more likely to recall seeing an advertisement on television (38%). Respondents who are not aware of the protective measures were most likely to recall seeing an ad about protecting killer whales on social media (55%). Residents of Metro Vancouver (34%) and Central Vancouver Island (37%) were more likely cite television. Residents of Central (13%) and South (14%) Vancouver Island were more likely to recall seeing an advertisement on a physical poster, sign, or pamphlet. As age increased, the likelihood of recalling seeing an advertisement on television increased (from 8% of those aged 18 to 34 years old to 46% of those 55 and older). Conversely, as age increased the likelihood of recalling seeing an advertisement on social media decreased (from 49% of those aged 18 to 34 to 12% of those 55+).

Three in 10 recall "Help keep killer whales safe" message from advertisement

Respondents who recalled seeing or hearing an advertisement about protecting killer whales (n=531) were asked what they recalled about the ad. Almost three in 10 (28%) said they recall the message "Help keep killer whales safe". One-quarter (24%) said they recall the message of "Slow down and stay away if you see a whale". Additionally, 19% said they recall the message of "Stay 400 metres away from killer whales".

Following this, 13% said they recall a picture of a Southern Resident killer whale. Other advertisement content and messaging were mentioned by much smaller proportions: 5% said they recall a message about "no-go" zones or interim sanctuary, 5% a message about keeping a distance other than 400 metres away, and 4% the message of "Reduce noise or shut off engine". Notably, one-quarter (24%) of respondents that said they recalled the advertisement could not recall any details.

Figure 18: Recall of Ad Campaign Content, Messages



Q11. What, if anything, do you recall about these advertisements?

Base: n=531; Respondents who recall seeing or hearing any advertisements about protecting the killer whales in BC coastal waters.

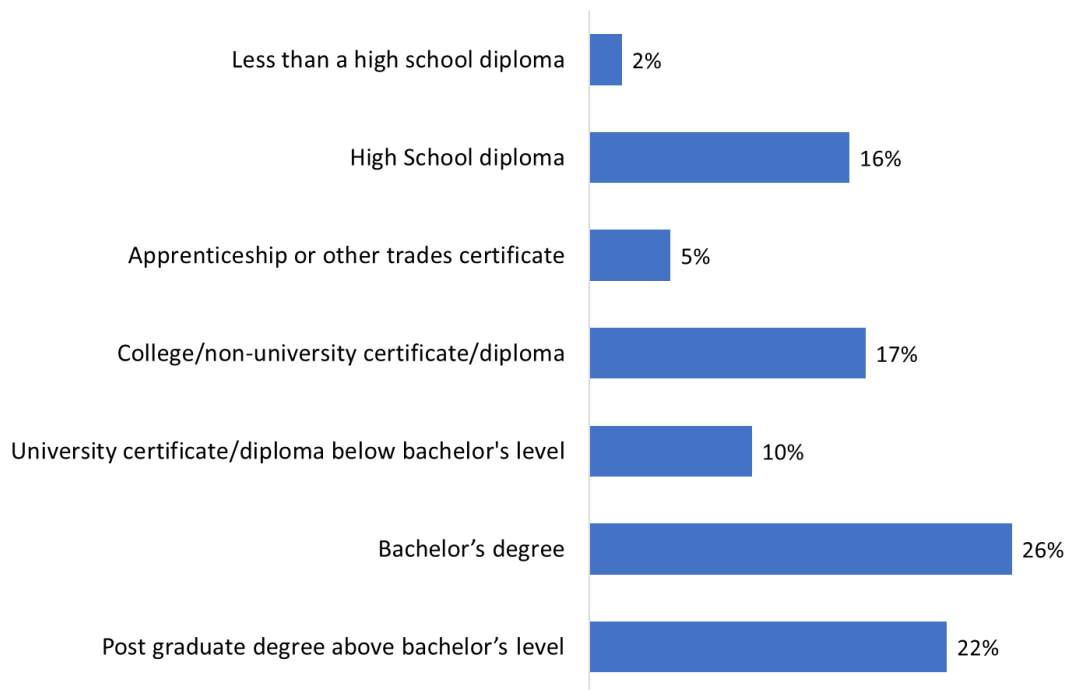
Boat owners were most likely to recall the message of "Stay 400 metres away from killer whales" (29%). Respondents who are aware of the protective measures were most likely to recall the advertisement message "Slow down and stay away if you see a whale" (26%). Those from South Vancouver Island were more likely to recall the message of a "no-go" zone or interim sanctuary (12%).

5. Profile of Respondents

Roughly half have completed a bachelor's degree or higher

The single largest proportion of respondents (26%) have completed a bachelor's degree, followed by one in five (22%) who have completed a post graduate degree. Taken together, roughly half have completed at least a bachelor's level education. Following this, just under one-third have completed an apprenticeship or trades certificate (5%), a college or non-university certificate or diploma (17%), or a university certificate or diploma below a bachelor's level (10%). The rest have completed a high school diploma (16%) or have less formal education (2%).

Figure 19: Level of Education



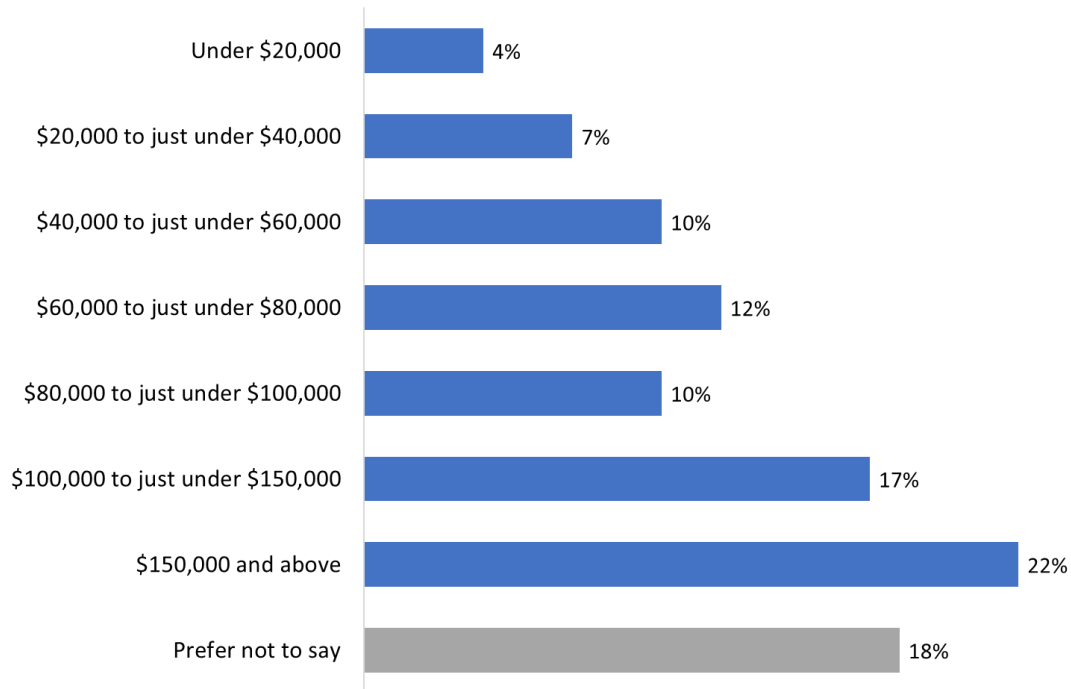
Q12. What is the highest level of formal education that you have completed?

Base: n=1,003; All respondents. [NR: 1%].

Two in five have a household income greater than \$100,000

Roughly two in five respondents (39%) had a household income of \$100,000 or more last year, including more than half of these reporting an annual household income of \$150,000 and above. Following this, one in five (22%) had a household income of \$60,000 to just under \$100,000, while 10% reportedly earned \$40,000 to just under \$60,000 and 11% under \$40,000 in the last year.

Figure 20: Household Income



Q13. Which of the following best describes your total household income last year, before taxes, from all sources for all household members?

Base: n=1,003; All respondents. [NR: 1%].

Most respondents speak English most often at home

As would be expected given the region of interest for the survey, the vast majority of respondents (91%) speak English most often at home. In addition, 10% speak a non-official language most often at home, while 2% speak French (i.e., are a member of an Official Language Minority Community).

Figure 21: Language Spoken Most Often at Home



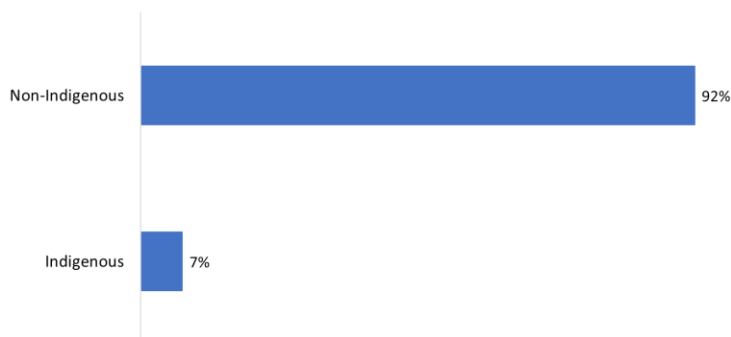
Q14. What language do you speak most often at home?

Base: n=1,003; All respondents.

Relatively few respondents are Indigenous Canadians

The large majority of respondents (92%) do not identify as Indigenous Canadians. In contrast, 7% identified themselves as First Nations, Métis, or Inuk.

Figure 22: First Nations, Métis, and Inuk Status



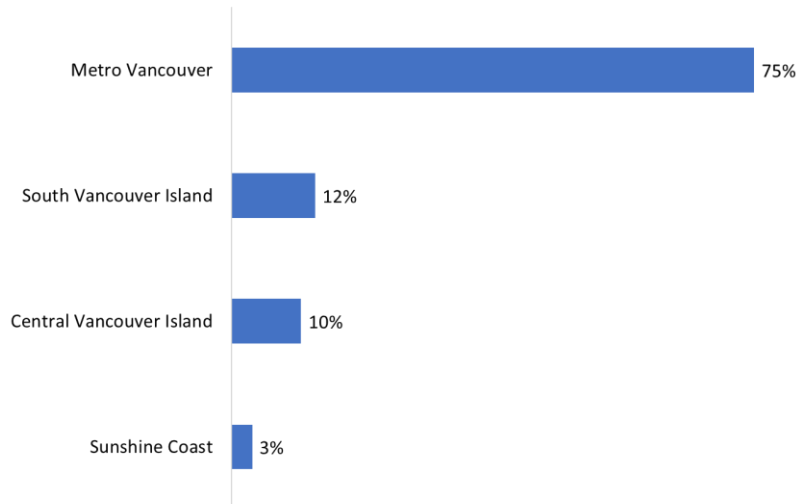
Q15. Are you First Nations, Métis or Inuk (Inuit)?

Base: n=1,003; All respondents. [NR: 1%].

Three-quarters are based in Metro Vancouver

Three-quarters of respondents live in Metro Vancouver. Following this, 12% live on South Vancouver Island, and 10% on Central Vancouver Island. Fewer live on the Sunshine Coast (3%).

Figure 23: Location

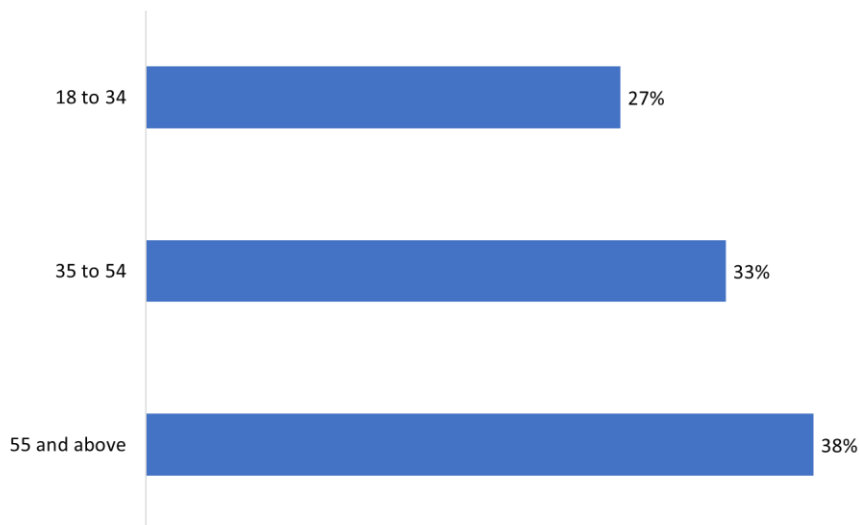


Base: n=1,003; All respondents

Age of respondents

Respondents varied in terms of their age, with the greatest single proportion aged 55 and older.

Figure 24: Respondent Age

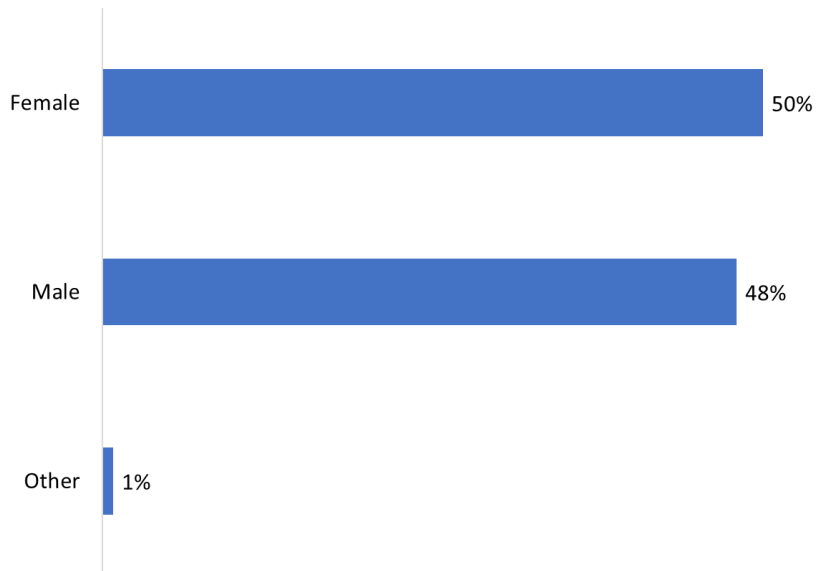


Base: n=750; All respondents. [DK/NR: 1%].

Gender

Exactly half of those surveyed identified as female, with slightly fewer identifying as male (48%). Very few respondents said they identify with another gender.

Figure 25: Gender



Base: n=1,003; All respondents. [NR: 1%].

Conclusions and Implications for Marketing and Advertising

This research yielded some noteworthy observations about residents' awareness and understanding of Southern Resident killer whales and general boating safety, as well as recall of the advertisement campaign.

- While just over half the survey respondents said they were aware of measures to protect Southern Resident killer whales in BC coastal waters, awareness of the specific measures themselves continues to be generally lower. This is consistent with the baseline study conducted in June 2021. Notably, awareness of specific measures has changed little from the baseline study.
 - Outreach efforts should be considered to raise awareness of the specific measures, in particular the interim sanctuary zones and the measure that recreational watercraft should not follow whale watching boats.
- As was the case with the baseline study, awareness of the mandatory and voluntary measures tended to be higher among boat owners and year-round watercraft users.
 - This is understandable since they are out on the water more often. These residents may benefit from seasonal reminders about the specific measures and boating safety, but they may not require concerted outreach to raise awareness and understanding.
- In contrast, and consistent with the baseline survey, awareness of the measures generally was lower among Metro Vancouver residents, those under 35 years of age, and boat renters (as opposed to boat owners and passengers).
 - Continued advertising and marketing directed at these populations may help to improve knowledge of, and compliance with, the safety measures. Key platforms include social media and public transportation—boat renters were most likely to use YouTube, Instagram, TikTok, Snapchat and transit on a daily basis.
 - In addition to social media and public transit, rental shops should be considered (if they are not already) an important outlet for connecting with these populations given that these audiences are more likely to rent watercrafts.
- While recall of the advertisement campaign was divided, Vancouver Island residents, boat owners and those who are year-round watercraft users were more likely to remember seeing or hearing an advertisement.
 - These residents seem to benefit from advertisements on physical posters, signs, and pamphlets. As well, to increase their recall and awareness they may benefit from having advertisements placed on Facebook or the radio as they are most likely to use these on a daily basis.
- In contrast, Metro Vancouver residents were less likely to recall the ad campaign.
 - Advertising and marketing could be increased in this area by targeting social media platforms, specifically Instagram and TikTok as these residents are more likely to use these on a daily basis.

Appendix

1. Technical Specifications

The following specifications applied to this survey:

- An 11-minute random digit dialling (RDD) telephone survey was administered to 1,003 adults aged 18 and older who reside in coastal communities located on the south coast of British Columbia and selected areas of Vancouver Island and who meet the eligibility criteria for recreational watercraft use on the ocean.
- An overlapping dual-frame (landline and cell phone) sample was used to minimize coverage error.
- Based on a sample of this size, the overall results can be considered accurate within $\pm 3.1\%$, 19 times out of 20.
- The questionnaire was pre-tested in advance of the fieldwork to ensure that it measured what it intended to measure and that respondents understood the questions. Minor changes resulted.
- The fieldwork was conducted January 26 and March 20, 2022. The longer than normal field period was the result of several factors, including a lower incidence rate than the baseline survey of 2021, a need to stop the fieldwork to amend the contract to address the lower incidence rate, as well as external factors, including COVID-19 and lockdowns in the City of Ottawa.
- The following table presents information about the final call dispositions for this survey and the calculation of the response rate:

	Total	Landline	Cell
Total Numbers Attempted	108,924	41,004	66,221
Out-of-scope - Invalid	47,017	10,302	36,715
Unresolved (U)	34,456	19,327	15,129
No answer/Answering machine	34,456	19,327	15,129
In-scope - Non-responding (IS)	11,145	3,259	7,886
Language barrier	2,045	967	1,078
Incapable of completing (ill/deceased)	17	10	17
Callback (Respondent not available)	9,083	2,282	6,801
Refusal	13,254	7,481	5,773
Termination	251	92	159
In-scope - Responding units (R)	2,801	1,614	1,187
Completed Interview	1,003	533	470
Quota Filled	6	0	6
Not Qualified – Under 18 years	60	0	60
Not Qualified – Did not/will not go on the ocean	1,699	1,071	628
Not Qualified – Does not use watercrafts	33	10	23

- The overall response rate was 5.5% (6% for the landline sample and 5.5% for the cell phone sample). The response rate formula is calculated as follows: $[R/(U+IS+R)]$. This means that the response rate is calculated as the number of responding units [R] divided by the number of unresolved [U] numbers plus in-scope [IS] non-responding households and individuals plus responding units [R].
- The survey data have been weighted by region (within the target geographic area), age and gender using population figures from Statistics Canada's census data.
- A non-response analysis was conducted to assess the potential for non-response bias. Survey non-response can bias results when there are systematic differences between survey respondents and non-respondents. To undertake the analysis, characteristics of survey respondents—region, gender, and age—were compared with those of the target population. Below, these comparisons are discussed and any differences between the survey sample and the population are evaluated in terms of the potential for non-response bias.
- The following table compares the survey sample on a regional basis to the population parameters by age. All survey data are unweighted. The survey sample those aged 55 and older from South Vancouver Island and from the Sunshine Coast. The result was those aged 18 to 54 from Metro Vancouver were under-represented in the survey sample. The weights that were applied to the survey sample corrected for this difference.

Region and age	Population %	Sample %	Difference
Central Vancouver Island - 18-34	2%	1%	-1%
Central Vancouver Island - 35-54	3%	5%	2%
Central Vancouver Island - 55+	5%	6%	1%
Metro Vancouver - 18-34	22%	9%	-13% ⁷
Metro Vancouver - 35-54	26%	15%	-11% ⁶
Metro Vancouver - 55+	27%	27%	0%
South Vancouver Island - 18-34	3%	2%	-1%
South Vancouver Island - 35-54	4%	7%	3%
South Vancouver Island - 55+	5%	15%	10% ⁶
Sunshine Coast - 18-34	<1%	2%	1%
Sunshine Coast - 35-54	1%	3%	2%
Sunshine Coast - 55+	1%	7%	6% ⁶

- The following table compares the survey sample on a regional basis to the population parameters by gender. All survey data are unweighted. The survey sample over-represented female and male residents of South Vancouver Island and under-represented residents of Metro Vancouver. The weights that were applied to the survey sample corrected for this difference.

⁷ The difference between the population and unweighted sample proportion exceeded the survey margin of error.

Canadians' Awareness and Understanding of Southern Resident killer whales and Boating Safety

Region and gender	Population %	Sample %	Difference
Central Vancouver Island - female	5%	5%	0%
Central Vancouver Island - male	5%	6%	1%
Metro Vancouver - female	38%	25%	-13% ⁶
Metro Vancouver - male	36%	27%	-9% ⁶
South Vancouver Island - female	6%	14%	8% ⁶
South Vancouver Island - male	6%	11%	5% ⁶
Sunshine Coast - female	2%	5%	3%
Sunshine Coast - male	2%	6%	4%

- As mentioned, weights were applied to adjust for the region-age discrepancy between the survey sample and the population. Weighting serves to reduce bias should it be present, but not to eliminate it completely.

2. Survey Questionnaire

Introduction

Hello/Bonjour, my name is [Interviewer's name] and I am calling from Phoenix SPI, a Canadian research firm, on behalf of the Government of Canada. We are conducting a survey on current issues of interest to Canadians. Would you prefer that I continue in English or French? Préférez-vous continuer en français ou en anglais? [IF NEEDED: Je vous remercie. Quelqu'un vous rappellera bientôt pour mener le sondage en français.]

The survey takes about 10 minutes and is voluntary. Your responses will be kept confidential and anonymous, and the information provided will be administered according to the requirements of the Privacy Act, the Access to Information Act, and any other pertinent legislation.

This survey is registered with the Canadian Research Insights Council's survey validation system. Should you have any questions about the survey, I can give you a contact person within the Government of Canada / Transport Canada. May I continue?

[IF THE INDIVIDUAL HESITATES, OR IF THE STATE OF EMERGENCY IS MENTIONED, SAY: We understand that the flooding which recently happened may have impacted you personally. While it is important that we hear from as many British Columbians as possible, we also understand that completing a survey at this time may not be something you have time to do. We appreciate you taking our call. ONLY CONTINUE IF THE INDIVIDUAL AGREES TO PARTICIPATE. IF THE INDIVIDUAL DOES NOT WANT TO CONTINUE, TERMINATE THE SURVEY AND OFFER THE PROVINCIAL EMERGENCY RESPONSE CONTACT INFORMATION.]

IF REQUESTED, THE CONTACT PERSON AT TRANSPORT CANADA IS DEBRA DAVIS:
debra.davis@tc.gc.ca

IF REQUESTED, THE CRIC REGISTRATION NUMBER IS: 20211215-PH827

[LANDLINE SAMPLE]

A. May I please speak with the person in your household who is 18 years of age or older and who has had the most recent birthday? Would that be you?

- | | |
|---------|---|
| 01. Yes | GO TO SCR. 1 |
| 02. No | ASK TO SPEAK TO THAT PERSON; REPEAT INTRO AS NEEDED |

[CELL SAMPLE]

B. Are you 18 years of age or older?

- | | |
|---------|-------------------|
| 01. Yes | CONTINUE |
| 02. No | THANK/DISCONTINUE |

TERMINATE MESSAGE-1: "Thank you for your willingness to take part in this survey, but you need to be at least 18 years of age to participate.

C. Are you in a place where you can safely talk on the phone and answer my questions?

- 01. Yes CONTINUE
- 02. No ARRANGE CALLBACK

INTERVIEWER NOTE: If you think that respondents' setting may endanger them (e.g., driving a vehicle), hinder their participation (e.g., background distractions), or hamper their ability to respond openly (e.g., lack of privacy), suggest rescheduling the interview.

D. Does your household subscribe to a home phone service, also known as a landline?

- 01. Yes CONTINUE
- 02. No CONTINUE; CODE AS CELLPHONE ONLY [WATCH QUOTAS]
- 03. Don't know CONTINUE
- 99. Prefer not to answer CONTINUE

SCREENING QUESTIONS

SCR. 1a In the last year, did you go out on the ocean in or on a recreational watercraft? Recreational watercraft includes power boats, sailboats, and jet skis, as well as canoes, kayaks, row boats or paddleboards that are privately owned or rented. This does not include watercraft used for commercial purposes, such as tour boats, ferries, or cruise ships.

NOTE TO INTERVIEWER: This does not include activities on lakes or rivers (respondents must have gone out on the ocean in the last year or plan to in the next year: see SCR.1b).

- 01. Yes GO TO SCR. 2a
- 02. No CONTINUE
- 99. Don't know/Refused THANK/TERMINATE

TERMINATE MESSAGE-2: "Thank you for your willingness to take part in this survey, but you do not meet the eligibility requirements of this study."

SCR. 1b [ASK IF SCR.1a=2 OR 99] In the next year, do you plan to go out on the ocean in or on a recreational watercraft?

- 01. Yes CONTINUE
- 02. No THANK/TERMINATE
- 99. Don't know/Refused THANK/TERMINATE

TERMINATE MESSAGE-2: "Thank you for your willingness to take part in this survey, but you do not meet the eligibility requirements of this study."

SCR. 2a [IF SCR1a=01] When you were out on the ocean this last year, were you out as a watercraft owner, renter, or passenger? [ACCEPT MULTIPLE RESPONSES.]

01. Boat owner

- 02. Boat renter
- 03. Passenger
- 99. Don't know/Refused

SCR. 2b [IF SCR1b=01] When you go out on the ocean in the next year, will you go out as a watercraft owner, renter, or passenger? [ACCEPT MULTIPLE RESPONSES.]

- 01. Boat owner
- 02. Boat renter
- 03. Passenger
- 99. Don't know/Refused

SCR. 3a May I have the first three digits of your postal code?

FSA: _____ VALIDATE AGAINST LIST; GO TO SCR.4a

- 99. Don't know/Refused CONTINUE

SCR. 3b [ASK IF SCR.3a=99] We need to speak with people who live on Vancouver Island, the Gulf Islands, the Sunshine Coast, or the Greater Vancouver area or use watercrafts in those areas. In which city or area of coastal British Columbia do you live or use watercrafts?

- 01. TEXT – OPEN-END CONTINUE
- 02. Do not live or use watercrafts in coastal BC THANK/TERMINATE
- 99. Don't know/Refused THANK/TERMINATE

TERMINATE MESSAGE-2: "Thank you for your willingness to take part in this survey, but you do not meet the eligibility requirements of this study."

INTERVIEWERS: IF UNCERTAIN, CHECK LIST.

Anvil Island	[SUNSHINE COAST]
Bowen Island	[SUNSHINE COAST]
Burnaby	[METRO VANCOUVER]
Campbell River	[VANCOUVER ISLAND]
Central Saanich	[VANCOUVER ISLAND]
Chemainus	[VANCOUVER ISLAND]
Cloverdale	[METRO VANCOUVER]
Comox	[VANCOUVER ISLAND]
Coquitlam	[METRO VANCOUVER]
Courtney	[VANCOUVER ISLAND]
Crofton	[VANCOUVER ISLAND]
Delta	[METRO VANCOUVER]
Discovery Islands	[UNSPECIFIED]
Duncan	[VANCOUVER ISLAND]
Gabriola Island	[GULF ISLANDS]
Galiano Island	[GULF ISLANDS]
Gambier Island	[SUNSHINE COAST]
Gibsons	[SUNSHINE COAST]
Gulf Islands	[UNSPECIFIED]
Jordan River	[VANCOUVER ISLAND]

Ladner	[METRO VANCOUVER]
Ladysmith	[VANCOUVER ISLAND]
Langdale	[SUNSHINE COAST]
Langley	[METRO VANCOUVER]
Lions Bay	[SUNSHINE COAST]
Maple Ridge	[METRO VANCOUVER]
Mayne Island	[GULF ISLANDS]
Mill Bay	[VANCOUVER ISLAND]
Nanaimo	[VANCOUVER ISLAND]
Nanoose Bay	[VANCOUVER ISLAND]
New Westminster	[METRO VANCOUVER]
North Vancouver	[METRO VANCOUVER]
Parksville	[VANCOUVER ISLAND]
Pender Island	[GULF ISLANDS]
Pitt Meadows	[METRO VANCOUVER]
Port Alberni	[VANCOUVER ISLAND]
Port Coquitlam	[METRO VANCOUVER]
Port Moody	[METRO VANCOUVER]
Port Renfrew	[VANCOUVER ISLAND]
Porteau Cove	[SUNSHINE COAST]
Powell River	[SUNSHINE COAST]
Qualicum Beach	[VANCOUVER ISLAND]
Richmond	[METRO VANCOUVER]
Salt Spring Island	[GULF ISLANDS]
Saanich	[VANCOUVER ISLAND]
Saturna Island	[GULF ISLANDS]
Sechelt	[SUNSHINE COAST]
Sidney	[VANCOUVER ISLAND]
Sooke	[VANCOUVER ISLAND]
Southern Gulf Islands	[UNSPECIFIED]
Squamish	[SUNSHINE COAST]
Sunshine Coast	[UNSPECIFIED]
Surrey	[METRO VANCOUVER]
Ucluelet	[VANCOUVER ISLAND]
Vancouver	[METRO VANCOUVER]
Vancouver Island	[UNSPECIFIED]
Victoria	[VANCOUVER ISLAND]
West Vancouver	[METRO VANCOUVER]
Whistler/Sea-to-Sky	[SUNSHINE COAST]
White Rock	[METRO VANCOUVER]

SCR.4a In what year were you born?

Record year: _____

99. [DO NOT READ] Don't know/Refused

SCR.4b [ASK IF SCR.4a=99] Would you be willing to tell me in which of the following age categories you belong?

[READ LIST; STOP WHEN RESPONDENT SELECTS AN ANSWER]

- 01. 18 to 24
- 02. 25 to 34
- 03. 35 to 44
- 04. 45 to 54
- 05. 55 to 64
- 06. 65 or older
- 99. [DO NOT READ] Refused

SCR. 5 What is your gender?

[READ LIST; STOP WHEN RESPONDENT SELECTS AN ANSWER]

- 01. Female
- 02. Male
- 03. Other
- 99. [DO NOT READ] Refused

MAIN SURVEY

1. To the best of your knowledge, are there any protective measures in place to protect Southern Resident killer whales in BC coastal waters?

- 01. Yes
- 02. No
- 99. I don't know

2. [IF Q1=02,99: Actually, there are protective measures in place to protect killer whales, as well as some voluntary measures. / IF Q1=01: As you know, there are measures in place to protect killer whale, as well as some voluntary measures.] I'm going to read several of them to you and I'd like you to tell me if it's something you are aware of or not. The first one is: [ROTATE ITEMS; A-C ROTATE AS A BLOCK; D-E ROTATE AS A BLOCK; F-G ROTATE AS A BLOCK]

NOTE TO INTERVIEWER: IF RESPONDENTS ARE UNCLEAR ABOUT WHAT IS MEANT BY "WATERCRAFT", PLEASE REMIND THEM THAT WATERCRAFT INCLUDES POWER BOATS, SAILBOATS, JET SKIS, CANOES, KAYAKS, ROW BOATS OR PADDLEBOARDS.

- A. There is an interim sanctuary zone that prevents watercraft from operating off the northern part of Pender Island.
- B. There is an interim sanctuary zone that prevents watercraft from operating off parts of Saturna Island.
- C. There is an interim sanctuary zone that prevents watercraft from operating at Swiftsure Bank.
- D. Watercraft must keep 400 metres from killer whales in all southern BC coastal waters between Campbell River and just north of Ucluelet.

- E. When out on the water, you should not follow whale watching boats because some have an exemption and do not need to keep 400 metres away from all killer whales.
- F. Boats should reduce speed when within a 1,000 metres of a killer whale.
- G. Fishing should not take place within a 1,000 metres of a killer whale.

[READ]

- 01. Definitely aware
- 02. Somewhat aware
- 03. Not aware
- 99. [DO NOT READ] I don't know

3a. Killer whales are also referred to as 'Orcas'. Which term do you most commonly use?

[READ LIST]

- 01. Killer whale
- 02. Orca, or
- 03. Some other term: specify
- 99. [DO NOT READ] Don't know/Refused

3. What type of recreational watercraft have you used on the ocean in the last two years? [IF NEEDED, REMIND RESPONDENTS OF THE FOLLOWING: Recreational watercraft does not include watercraft used for commercial purposes, such as tour boats, ferries, or cruise ships.]

[ACCEPT ALL THAT APPLY; DO NOT READ LIST]

- 01. Power boat, motor boat or speedboat
- 02. Sailboat
- 03. Personal watercrafts (e.g., WaveRunners/Sea-Doos/Jet Skis)
- 04. Canoe
- 05. Kayak (includes inflatable crafts)
- 06. Row boat
- 07. Paddleboard (includes inflatable crafts)
- 08. Dinghy
- 09. Houseboat
- 10. Pontoon
- 11. Other: specify
- 12. None; my first time out will be in the next year. SKIP TO Q6
- 13. Have not boated in the last two years, but have in years past
- 99. I don't know/I can't recall

4. On average, how many days per year do you typically go out on the ocean in a watercraft for recreational purposes?

- 01. Record days:
- 02. None; my first time out will be in the next year SKIP TO Q6
- 99. [DO NOT READ] Don't know/Refused SKIP TO Q6

5. [IF Q4=01] Do you tend to go out on ocean in a watercraft all year long or is this a seasonal activity?

- 01. All year
- 02. Seasonal
- 03. [VOLUNTEERED] It depends
- 99. Don't know/Refused

5a. When out on the ocean for recreational purposes, have you used a depth finder, also sometimes called an echo sounder?

- 01. Yes
 - 02. No
 - 99. I don't know/I can't recall
- SKIP TO Q6
SKIP TO Q6

5b. For what purpose have you used a depth finder? [READ LIST; ACCEPT ALL THAT APPLY]

- 01. For navigation purposes
- 02. For finding fish
- 03. [DO NOT READ] Other: specify
- 99. [DO NOT READ] I don't know/I can't recall

5c. How frequently do you use a depth finder when out on the ocean for recreational purposes? [READ LIST]

- 01. Every time
- 02. Most of the time
- 03. Some of the time, or
- 04. Rarely
- 99. [DO NOT READ] I don't know/I can't recall

6. When you go out on the ocean, do you wear a life jacket or personal flotation device?

- 01. Yes
- 02. No
- 03. [VOLUNTEERED] It depends on the type of watercraft
- 04. [VOLUNTEERED] It depends on the situation/people involved
- 99. Don't know/Refused

7. Where do you get your boating safety and regulatory information? [ACCEPT ALL THAT APPLY]

[DO NOT READ LIST]

- 01. The internet: ASK TO SPECIFY WHICH SITES. IF THEY MENTION DOING A SEARCH, ASK IF THEY USED GOOGLE OR ANOTHER SEARCH ENGINE. IF GOOGLE, CODE AS 02. IF ANOTHER SEARCH ENGINE IS MENTIONED, CODE AS 03.
- 02. Google

03. Search engine [not Google]
04. Transport Canada
05. Parks Canada
06. Department of Fisheries and Oceans (DFO)
07. The Government of Canada
08. Canadian Red Cross
09. Social Media - ASK TO SPECIFY:
 - Reddit
 - YouTube
 - TikTok
 - Facebook
 - Twitter
 - Instagram
 - Other: Please specify: [TEXT]
10. Outdoors shops
11. Boat rental shops
12. Marinas
13. Friends/family/colleagues
14. Word of mouth
15. News media
16. Other: specify
17. I've never needed to look for this information
99. I don't know/I can't recall

8. Which of the following do you typically do on a daily basis? [ACCEPT ALL THAT APPLY]

[RANDOMIZE; READ LIST]

01. Listen to radio
02. Use public transit
03. Use Facebook
04. Use Instagram
05. Use Spotify
06. Use Twitter
07. Use YouTube
08. Use Snapchat
09. Use TikTok
10. [VOLUNTEERED] None of these
99. [DO NOT READ] Prefer not to answer

9. In the past year, do you recall seeing or hearing any advertisements about protecting the killer whales in BC coastal waters by staying away from them when boating?

01. Yes
02. No SKIP TO Q11
99. I don't know/unsure SKIP TO Q11

10. Where do you recall seeing or hearing these advertisements? [ACCEPT ALL THAT APPLY]

01. Radio

02. Social media - ASK TO SPECIFY:

- Reddit
- YouTube
- TikTok
- Facebook
- Twitter
- Instagram
- Other: Please specify: [TEXT]

03. Billboard

88. Other: specify

99. I don't know/I can't recall

11. What, if anything, do you recall about these advertisements? [ACCEPT ALL THAT APPLY]

01. A picture of a whale/orca/Southern Resident killer whale

02. The message to slow down and stay away if you see a whale

03. That there are "no-go" zones / interim sanctuary

04. People should stay 400 metres away from killer whales

05. Help keep killer whales safe

88. Other: specify

99. I don't know/I can't recall

DEMOGRAPHICS

We have a couple final questions for statistical classification purposes. Be assured that your responses will be held in strict confidence.

12. What is the highest level of formal education that you have completed?

[READ LIST; STOP WHEN RESPONDENT SELECTS AN ANSWER]

01. Less than a High School diploma or equivalent

02. High School diploma or equivalent

03. Registered Apprenticeship or other trades certificate or diploma

04. College, CEGEP or other non-university certificate or diploma

05. University certificate or diploma below bachelor's level

06. Bachelor's degree

07. Post graduate degree above bachelor's level

99. [DO NOT READ] Prefer not to answer

13. Which of the following best describes your total household income last year, before taxes, from all sources for all household members?

[READ LIST; STOP WHEN RESPONDENT SELECTS AN ANSWER]

01. Under \$20,000

- 02. \$20,000 to just under \$40,000
- 03. \$40,000 to just under \$60,000
- 04. \$60,000 to just under \$80,000
- 05. \$80,000 to just under \$100,000
- 06. \$100,000 to just under \$150,000
- 07. \$150,000 and above
- 99. [DO NOT READ] Prefer not to answer

14. What language do you speak most often at home? [ACCEPT ALL THAT APPLY]

[DO NOT READ]

- 01. English
- 02. French
- 03. Other [DO NOT SPECIFY]
- 99. Prefer not to answer

Finally,

15. Are you First Nations, Métis or Inuk (Inuit)?

[DO NOT READ]

- 01. No
- 02. Yes
- 99. Prefer not to say

CONCLUSION

That concludes the survey. Thank you very much for your thoughtful feedback. This survey was conducted on behalf of Transport Canada.