

Subsistence Fisher Consumption Questionnaire for San Francisco Bay

Third Draft

February 2024

Preface

In creating this draft questionnaire, six past subsistence fishing consumption surveys were closely reviewed, with the 2001 San Francisco Bay survey as a primary starting point. The other five surveys were chosen for their geographical proximity or likeness to San Francisco Bay and their intentionality in reaching specific cultural groups, with an emphasis on surveys that have collaborated with and provided data for regional regulatory bodies. These surveys included the 2015 San Diego Bay Consumption Survey conducted by SCCWRP, the ACE2 Biomonitoring survey conducted by CDPH in 2016, the 2007 UC Santa Cruz Wharf Seafood Consumption Survey, the 1998 APEN survey targeting Laotian fishers, and the 20XX California Indian Environmental Alliance survey. Although the content of all the questionnaires had many similarities, it was clear that the original 2001 consumption survey needed updating to focus on subsistence fishers and the other surveys provided key cultural insights. With the 2001 questionnaire serving as a template, additional questions from the other surveys have been added and necessary changes to wording choices to better reach the target audience of subsistence fishers.

Certain decisions were made to optimize the efficiency of recording trackable data from respondents while allowing some open-endedness to gain key cultural and social context. This document provides a draft of the questionnaire and explanations of the rationale behind the overall organization of the survey and specific questions and wording.

1) Introduction

Hello, my name is _____. I am from [CBO Name] and we are doing a survey to understand how much fish and shellfish are caught and consumed by people fishing in the Bay. The survey will support efforts to promote safe consumption of Bay fish.

There are no right or wrong answers to any of these questions. **I am not checking fishing licenses or checking your catch.**

You can skip any question you don't want to answer. You can also stop the interview at any time. Your responses will be kept anonymous. The survey will only take about 15-20 minutes. Are you willing to take the survey?

Question 1) Have you been interviewed before for this study?

Question 2) Not including today, in the last 4 weeks, how many days have you gone fishing in the Bay (show map)?

Question 3) What do you usually do with your catch?

- | | | |
|--|---|--|
| <input type="checkbox"/> Eat myself | <input type="checkbox"/> Use for bait | <input type="checkbox"/> Catch and Release |
| <input type="checkbox"/> Share with my household | <input type="checkbox"/> Give to community/Friend | <input type="checkbox"/> Other _____ |
| | <input type="checkbox"/> Trade or Sell | |

Question 4a) Do you consume any of the fish you or others catch from the Bay? If no, direct them to health advisory section and end survey Yes No

Question 4b) (if yes) - Why do you fish/eat fish from the Bay? Check the top three reasons.

- | | | |
|--|--|--|
| <input type="checkbox"/> Cultural heritage | <input type="checkbox"/> Health/nutrition | <input type="checkbox"/> Inexpensive food source |
| <input type="checkbox"/> To have fun/relax | <input type="checkbox"/> To be with friends/family | <input type="checkbox"/> Barter/Sell |
| <input type="checkbox"/> Family tradition | | <input type="checkbox"/> Other _____ |

Question 4d) If your fishing relates to cultural/traditional/familial practices, please explain how: [PRIORITY QUESTION FOR WORKGROUP DISCUSSION]

Question 4e) If you couldn't eat fish from the Bay, how hard would it be for you to replace that food with food bought from stores, restaurants, or other commercial sources? (on a scale from 1 to 5: 1 being easy and 5 being very hard)

2) Consumption

Question 5) How many years have you been eating fish that you or someone you know has caught from the Bay?

- < 1 Year
- 1-5 Years
- 6-10 Years
- 11-20 Years
- 21-29 Years
- > 30 Years

Question 6) In the last 4 weeks, how many times did you eat fish that you or someone you know caught from the Bay?

- > once a day
- About every day
- 3-4 times a week
- 1-2 times a week
- 2-3 times a month
- < once a month or never

Question 7) In the last 12 months, how many times did you eat fish that you or someone you know caught from the Bay?

- > once a day
- 2-3 times a month
- 1-6 times per year
- 1-2 times a week
- 3-4 times a week
- 6-12 times per year
- About every day
- < once a month
- year

Question 8) Please indicate how often you catch and eat fish in certain seasons

	July - Sept (Summer)	Oct - Dec (Fall)	Jan - March (Winter)	April - June (Spring)
More than once a week				
Once a week				
Once a month				
Less than once a month				
Don't know				

Question 8a) Please specify reasons for each season ie. Fish Availability, cultural practice, etc. [PRIORITY QUESTION FOR WORKGROUP DISCUSSION]

Question 9) This is a model of 8 ounces (half pound) of raw fish fillet [SHOW MODEL]. When you eat a meal that includes fish from the Bay, is the amount that you eat:



- About the same
- More/by how much
- Less/by how much

Or

- 1.5 oz
- 3 oz
- 4.5 oz
- 6 oz
- 7.5 oz
- Other

Question 10) Have you changed the way or the amount you eat fish over the past 5 years? Increase Decrease Stayed the same

- 2001 Survey
- CIEA Survey
- SD Survey
- UCSC Survey
- ACE Survey
- APEN Survey

Question 11) Do you also eat fish that you purchased from a store or restaurant? This includes any fish fillet burgers or canned tuna also. Yes No

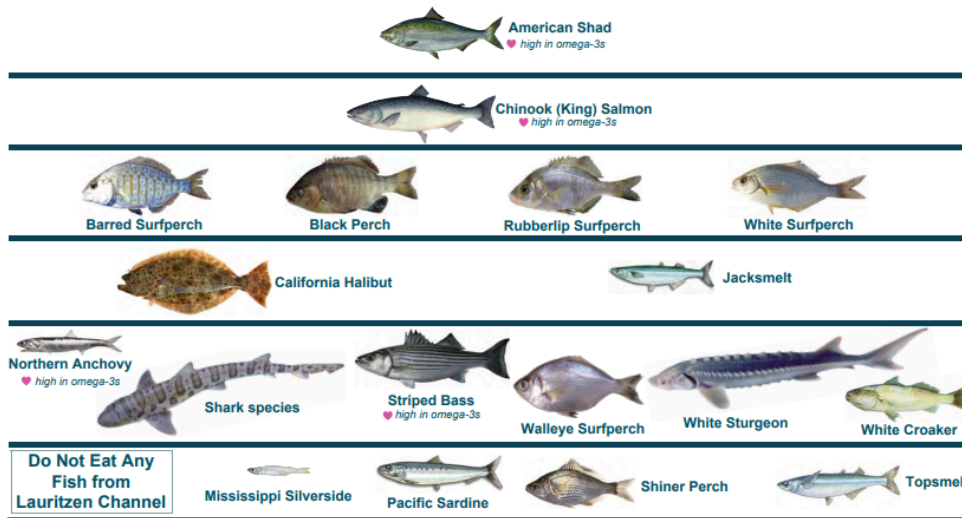
- 2001 Survey
- CIEA Survey
- SD Survey
- UCSC Survey
- ACE Survey
- APEN Survey

Question 11a) If yes to the previous question, how often?

- once a week
- Once a month
- A few times a week
- A few times a month

3) Species

Question 12a) I have some pictures of fish that can be caught from the Bay. Looking at these pictures, please show me which fish you have eaten in the past year. Again, these are the fish you ate in the past year which you caught or someone you know caught from the Bay. The fish could have been fresh, frozen, dried, canned or smoked. Start with the fish that you eat the most.



Question 12b) How many times have you eaten this fish in the last four weeks?

- | | | |
|---|--|--|
| <input type="checkbox"/> > once a day | <input type="checkbox"/> About every day | <input type="checkbox"/> 3-4 times a week |
| <input type="checkbox"/> 1-2 times a week | <input type="checkbox"/> 2-3 times a month | <input type="checkbox"/> < once a month or never |

Question 12c) What is the approximate length in inches of this kind of fish that you eat?

- | | | |
|---|---------------------------------------|--------------------------------------|
| <input type="checkbox"/> 6-12 inches | <input type="checkbox"/> 12-18 inches | <input type="checkbox"/> 18+ inches |
| <input checked="" type="checkbox"/> 2001 Survey | <input type="checkbox"/> SD Survey | <input type="checkbox"/> ACE Survey |
| <input type="checkbox"/> CIEA Survey | <input type="checkbox"/> UCSC Survey | <input type="checkbox"/> APEN Survey |

Question 12d) Which parts of this fish do you eat?

- | | | |
|---|---------------------------------|--------------------------------------|
| <input type="checkbox"/> The whole fish | <input type="checkbox"/> Eyes | <input type="checkbox"/> Eggs |
| <input type="checkbox"/> Fillet | <input type="checkbox"/> Cheeks | <input type="checkbox"/> Other _____ |
| <input type="checkbox"/> Skin | <input type="checkbox"/> Guts | |

Question 12e) What do you do with the parts of this fish that you do not eat?

- | | | |
|----------------------------------|---|---------|
| <input type="checkbox"/> Discard | <input type="checkbox"/> Give to others | specify |
| <input type="checkbox"/> Stew | <input type="checkbox"/> Other: please | |

Question 12f) How do you prepare and cook this species?

- Raw
- Smoked
- Boiled
- Fried

- Baked
- Tinned
- Grilled
- Jerky

- Blended to make a paste ie. fish cake
- Other (Elaborate)

4) Location

Have maps available (for local area and Baywide)

Question 13) How often do you fish at this location? (skip if this is not a shoreline intercept survey)

- | | | |
|--|--|---|
| <input type="checkbox"/> About every day | <input type="checkbox"/> 3-4 times a week | <input type="checkbox"/> 1-2 times a week |
| <input type="checkbox"/> 2-3 times a month | <input type="checkbox"/> < once a month or never | <input type="checkbox"/> Other _____ |

Question 14a) At what Bay location do you fish the most? _____
How often do you fish there?

- | | | |
|--|--|---|
| <input type="checkbox"/> About every day | <input type="checkbox"/> 3-4 times a week | <input type="checkbox"/> 1-2 times a week |
| <input type="checkbox"/> 2-3 times a month | <input type="checkbox"/> < once a month or never | <input type="checkbox"/> Other _____ |

Question 14b) Why this specific location, ask for top two reasons

- | | |
|--|--|
| <input type="checkbox"/> Close to home/work | <input type="checkbox"/> Don't need license |
| <input type="checkbox"/> Convenient parking | <input type="checkbox"/> Lots of fish available |
| <input type="checkbox"/> Specific fish available | <input type="checkbox"/> Other things for others to do |

Question 15a) Do you fish at other locations?

- Yes (continue with 15b) No (got to section 5)

Question 15b) If yes, Where?

Question 15c) How often?

Question 15d) Why those specific locations, ask for top two reasons

- | | |
|--|--|
| <input type="checkbox"/> Close to home/work | <input type="checkbox"/> Don't need license |
| <input type="checkbox"/> Convenient parking | <input type="checkbox"/> Lots of fish available |
| <input type="checkbox"/> Specific fish available | <input type="checkbox"/> Other things for others to do |

5) Household Consumption and Sharing of Catch

Question 16) How many people altogether, including yourself, are in your household? _____

Question 17) Who in your household eats the fish that you or someone you know catches from the Bay? Please list those you live with including age, gender, and how often they eat Bay fish:

Relationship to Respondent	Sex (M/F)	Age	How often they have eaten Bay fish in the last 4 weeks
Self (Interviewee)			<input type="checkbox"/> > once a day <input type="checkbox"/> 1-2 times a week <input type="checkbox"/> About every day <input type="checkbox"/> 2-3 times a month <input type="checkbox"/> 3-4 times a week <input type="checkbox"/> < once a month or less

Question 18a) Do you share the fish you/others catch with others? Yes No

18b) Who outside of your household eats the fish that you or someone you know catches or consumes from the Bay? Please list those you know about including age and gender

Friends

Neighbors

Other _____

Relationship to Respondent	Sex (M/F)	Age
Self (Interviewee)		

6) Describing Bay Fishers - These next few questions will help us describe the people who fish from the Bay. We find this information helpful when we are developing information and materials for people who fish and protecting those who are most vulnerable to the effects of the contaminants that are in the fish. Children and people who can bear children are more vulnerable to mercury, for example. Please remember the information is kept confidential and you don't have to answer if you don't want to.

Question 19) What is your racial background?

- | | | |
|--|--|--------------------------------------|
| <input type="checkbox"/> African American/Black | <input type="checkbox"/> Latino | <input type="checkbox"/> Other _____ |
| <input type="checkbox"/> American Indian (Native American) | <input type="checkbox"/> White/Caucasian | <input type="checkbox"/> Don't Know |
| | <input type="checkbox"/> Asian | <input type="checkbox"/> No Response |

Question 20) What language do you primarily speak in your home? _____

Question 21) What year were you born?

Question 22) Gender of Respondent _____ or Prefer Not to Answer

Question 23) If you are comfortable, please indicate your household income

- | | | |
|--|---|--|
| <input type="checkbox"/> Less than \$20,000 | <input type="checkbox"/> \$65,001 - \$100,000 | <input type="checkbox"/> DK |
| <input type="checkbox"/> \$20,000 – 45,000 | <input type="checkbox"/> more than \$100,000 | <input type="checkbox"/> Not Comfortable |
| <input type="checkbox"/> \$45,001 - \$65,000 | | |

Question 24) What is your zipcode?

7) Closing

That's all the questions I have. **Thank you for your input!** As a thank you for your participation, we would like to offer you a small gift (OFFER GIFT). We can also send you information about the results of this survey when they become available. **I'd also like to give you some information about the current advisory for the Bay (OFFER COPY OF ADVISORY PAMPHLET)**

Q24. Are there other places you'd recommend for us to do this survey?

Q25. Do you have any comments or questions for me?

Q26. Would you like us to send you information about the results of our survey when they become available? (Have card with contact details available)

Q28. Is there anything else you want me to know about fishing and the seafood you catch in the Bay?

Post Survey Reflection

Both 2001 Survey and UCSC Survey have a section for post interviewer observations:

This is primarily in the case the interview was incomplete. Interviewers were asked to note the observed gender, age, ethnicity, and native language of the interviewee. Other items of note were how many people were in the group and how many children were in the group. Interviewers were also asked to gauge the quality of the interview and if the interview was deemed bad, why so (language, distracted, other, etc).

Risk Communication **(Suggested to delete or move to end)**

29a) Have you heard or seen any information or the advisory about the pros and cons of eating fish from the Bay? Yes No

29b) What did the information say about fish from the Bay? _____

29c) Where did you get this information?

- | | | |
|---|---------------------------------------|--|
| <input type="checkbox"/> Family | <input type="checkbox"/> Friends | <input type="checkbox"/> Signs |
| <input type="checkbox"/> Fishing Regulation | <input type="checkbox"/> Social Media | <input type="checkbox"/> Other (Elaborate) |

30a) Has the information you have heard or seen about eating fish from the Bay caused you to change your fish-eating habits? Yes No

22a) If yes, how have you changed your fish-eating habits? If no, why not?

Increase Decrease

30b) What is the best way for you to get information about catching and eating fish from the Bay? (check all that apply)

- | | | |
|---|---------------------------------------|--|
| <input type="checkbox"/> Family | <input type="checkbox"/> Friends | <input type="checkbox"/> Signs |
| <input type="checkbox"/> Fishing Regulation | <input type="checkbox"/> Social Media | <input type="checkbox"/> Other (Elaborate) |