

Appendix A3. Socio-economic mail survey questionnaire of Massachusetts saltwater shore anglers.

1998 SURVEY OF MASSACHUSETTS SALTWATER SHORE FISHING PAGE 1

In the following questions, please tell us about your fishing activity and experience. "Shore" fishing can include fishing from a beach, bank, jetty, pier, dock, bridge, breakwater, causeway or wading in water. For the purposes of this survey, "partyboat" is defined as any boat where people pay per person to go fishing. A "charterboat" is a boat which a group of people have paid a flat fee for use of the entire boat for a period of time.

1. What year did you first start fishing in saltwater?  
19\_\_\_\_\_
2. What year did you first start fishing from the *shore* in saltwater?  
19\_\_\_\_\_
3. In the past 12 months, how many *days* did you go saltwater fishing from:  
\_\_\_\_\_ DAYS THE SHORE IN MASSACHUSETTS  
\_\_\_\_\_ DAYS A PARTYBOAT IN MASSACHUSETTS  
\_\_\_\_\_ DAYS A PARTYBOAT IN ANOTHER STATE  
\_\_\_\_\_ DAYS A CHARTERBOAT IN MASSACHUSETTS  
\_\_\_\_\_ DAYS A PRIVATELY OWNED BOAT IN MASSACHUSETTS
4. Which of the following specific types of *saltwater shore fishing* did you do in Massachusetts in the past 12 months? (You may circle more than one type)
  - 1 SURFCASTING FROM A BEACH
  - 2 FROM A JETTY OR BREAKWATER
  - 3 FROM A FISHING PIER OR DOCK
  - 4 FROM A BRIDGE OR CAUSEWAY
  - 5 OTHER (PLEASE SPECIFY) \_\_\_\_\_
5. In the past 12 months, how many times did you go on a whale watching cruise?  
\_\_\_\_\_ TIMES
6. In the past 12 months, did you fish in freshwater?  
\_\_\_\_\_ YES (*If yes, go to question 7*)  
\_\_\_\_\_ NO (*If no, skip to question 8*)

7. In the past 12 months, how many *days* did you go *freshwater* fishing from:

- \_\_\_\_\_ DAYS A PRIVATELY OWNED BOAT IN MASSACHUSETTS
- \_\_\_\_\_ DAYS A PRIVATELY OWNED BOAT IN ANOTHER STATE
- \_\_\_\_\_ DAYS THE SHORE IN MASSACHUSETTS
- \_\_\_\_\_ DAYS THE SHORE IN ANOTHER STATE

Next we would like some more detailed information about your fishing skill level and the importance of fishing in your life.

8. Please fill in the appropriate letter from the list provided, of the fish species you most prefer to catch when *saltwater shore fishing* in Massachusetts:

- \_\_\_\_\_ Most Preferred
- \_\_\_\_\_ Second Most Preferred
- \_\_\_\_\_ Third Most Preferred

- |                            |                    |
|----------------------------|--------------------|
| a) summer flounder (fluke) | e) bluefish        |
| b) scup (porgy)            | f) winter flounder |
| c) pollock                 | g) striped bass    |
| d) Atlantic mackerel       | h) other (specify) |
| e) cunner                  | i) no preference   |

9. When I participate in the sport of *saltwater shore fishing* I feel like:  
(Please circle only one number)

- 1 an outsider. I am uncomfortable when I go saltwater shore fishing, and I don't really feel like I am part of the fishing scene.
- 2 an observer or irregular participant. Sometimes it is fun, entertaining or rewarding to go saltwater shore fishing.
- 3 a habitual and regular participant in the sport of saltwater shore fishing.
- 4 an insider to the sport. Saltwater shore fishing is an important part of who I am.

**10. During a saltwater shore fishing experience, I can best be described as:**

- 1 being somewhat uncertain. I am unsure about what I can or cannot do while saltwater shore fishing, or how to do it.
- 2 having some understanding of saltwater shore fishing, but still in the process of learning more about saltwater shore fishing. I am becoming more familiar and comfortable with saltwater shore fishing.
- 3 becoming comfortable with the sport. I have regular, routine, and predictable experiences. I have a good understanding of what I can do while saltwater shore fishing, and how to do it.
- 4 a knowledgeable expert in the sport and/or someone who is comfortable encouraging, teaching and enhancing opportunities for others who are interested in saltwater shore fishing.

**11. My *relationships* with other saltwater shore anglers are:**

- 1 not established. I really don't know any other saltwater shore anglers.
- 2 very limited. I know some other saltwater shore anglers by sight and sometimes talk with them, but I don't know their names.
- 3 one of familiarity. I know the names of other saltwater shore anglers, and often speak with them.
- 4 close. I have personal and close friendships with other saltwater shore anglers. These friendships often revolve around saltwater shore fishing.

**12. My *commitment* to saltwater shore fishing is:**

- 1 almost nonexistent. I basically don't care whether or not I continue to go saltwater shore fishing.
- 2 moderate. I will continue to go saltwater shore fishing as long as it is entertaining and provides the benefits I want.
- 3 fairly strong. I have a sense of being a member of the activity, and it is likely I will continue to fish in saltwater from the shore for a long time.
- 4 very strong. I am totally committed to saltwater shore fishing. I encourage others to go saltwater shore fishing, and seek to ensure the activity continues into the future.

13. What type of group do you go saltwater shore fishing with *most often*?  
(Please circle only one number)

- 1 BY YOURSELF
- 2 FAMILY
- 3 FRIENDS
- 4 CO-WORKERS
- 5 OTHER (specify) \_\_\_\_\_

14. Who first introduced you to saltwater shore fishing? (Please circle only one number)

- |                  |                          |
|------------------|--------------------------|
| 1 YOURSELF       | 6 GRANDPARENTS           |
| 2 FATHER         | 7 OTHER CLOSE RELATIVE   |
| 3 MOTHER         | 8 FRIEND                 |
| 4 SPOUSE         | 9 CO-WORKER              |
| 5 BROTHER/SISTER | 10 OTHER (specify) _____ |

The following questions will be used to perform an economic analysis of saltwater shore fishing in Massachusetts. The information you provide will remain strictly confidential and you will not be identified with your answers. Please refer to the *enclosed map* of Massachusetts to answer zone specific questions in this section.

Questions 15-23 Relate Only to Zone 1 Shore Fishing  
In Saltwater (please refer to enclosed map)

15. In the past 12 months, how many *days* did you go saltwater shore fishing in *Zone 1*?  
(Zone 1: Barnstable, Dukes, Nantucket, Plymouth, Bristol, Suffolk, Norfolk counties.)

\_\_\_\_\_ DAYS (If no days, skip to question 24 / If one or more days go to question 16)

16. In the past 12 months, did *any* of your saltwater shore fishing in *Zone 1* involve spending at least one night away from your residence (motel, campsite, at friends, etc.)?

- 1 YES (If yes, go to question 17)
- 2 NO (If no, skip to question 23)

17. In the past 12 months, how many trips did you take that involved spending at least one night away from your residence and included at least one day of saltwater shore fishing in *Zone 1*?

\_\_\_\_\_ TRIPS IN PAST 12 MONTHS

18. On a typical overnight trip that involved saltwater shore fishing in *Zone 1* in the past 12 months, how many nights did you spend away from your residence?

\_\_\_\_\_ NIGHTS PER TRIP

19. On a typical trip during which you went saltwater shore fishing in *Zone 1* in the past 12 months, how many days did you spend saltwater shore fishing?

\_\_\_\_\_ DAYS SALTWATER SHORE FISHING PER TRIP

20. Considering a typical trip during which you went saltwater shore fishing in *Zone 1* in the past 12 months, would you have made this trip had you not gone shore fishing?

1 YES

2 NO

21. On a *typical* trip in the past 12 months that involved spending at least one night away from your residence and included at least one day of saltwater shore fishing in *Zone 1*, please estimate how much you spent on each of the following items.

	Total Spent On Trip	Money Spent in Massachusetts	Money Spent In Zone 1
a) Auto costs (fuel, rental car, tolls).....	\$ _____	\$ _____	\$ _____
b) Other transportation (airplane, etc.) .	\$ _____	\$ _____	\$ _____
c) Site entrance fee .....	\$ _____	\$ _____	\$ _____
d) Bait .....	\$ _____	\$ _____	\$ _____
e) Tackle .....	\$ _____	\$ _____	\$ _____
f) Parking .....	\$ _____	\$ _____	\$ _____
g) Lodging (hotel, rental, camping) .....	\$ _____	\$ _____	\$ _____
h) Restaurant meals .....	\$ _____	\$ _____	\$ _____
i) Groceries (food, drinks, ice, etc.).....	\$ _____	\$ _____	\$ _____
j) Anything else (please specify) .....	\$ _____	\$ _____	\$ _____

\_\_\_\_\_

22. In the past 12 months, did you take any saltwater shore fishing trips in *Zone 1* that did not involve spending any nights away from your residence?

- 1 YES (*If yes, go to question 23*)
- 2 NO (*If no, skip to question 24*)

23. On a *typical* saltwater shore fishing trip in the past 12 months in *Zone 1*, that did not involve spending any nights away from your residence, please estimate how much you spent on each of the following items.

	Total Spent On Trip	Money Spent in Massachusetts	Money Spent In Zone 1
a) Auto costs (fuel, rental car, tolls).....	\$ _____	\$ _____	\$ _____
b) Other transportation (airplane, etc.) .	\$ _____	\$ _____	\$ _____
c) Site entrance fee .....	\$ _____	\$ _____	\$ _____
d) Bait .....	\$ _____	\$ _____	\$ _____
e) Tackle .....	\$ _____	\$ _____	\$ _____
f) Parking .....	\$ _____	\$ _____	\$ _____
g) Restaurant meals .....	\$ _____	\$ _____	\$ _____
h) Groceries (food, drinks, ice, etc.).....	\$ _____	\$ _____	\$ _____
i) Anything else (please specify) .....	\$ _____	\$ _____	\$ _____

**Questions 24-32 Relate Only to Zone 2 Shore Fishing  
In Saltwater (please refer to enclosed map)**

24. In the past 12 months, how many *days* did you go saltwater shore fishing in *Zone 2*?  
(Zone 2: Essex and Middlesex counties)

\_\_\_\_\_ DAYS (*If no days, skip to question 33 ; If one or more days go to question 25*)

25. In the past 12 months, did *any* of your saltwater shore fishing trips in *Zone 2* involve spending at least one night away from your residence (motel, campsite, at friends,etc.)?

- 1 YES (*If yes, go to question 26*)
- 2 NO (*If no, skip to question 32*)

26. In the past 12 months, how many trips did you take that involved spending at least one night away from your residence and included at least one day of saltwater shore fishing in *Zone 2*?

\_\_\_\_\_ TRIPS IN PAST 12 MONTHS

27. On a typical overnight trip that involved saltwater shore fishing in *Zone 2* in the past 12 months, how many nights did you spend away from your residence?

\_\_\_\_\_ NIGHTS PER TRIP

28. On a typical trip during which you went saltwater shore fishing in *Zone 2* in the past 12 months, how many days did you spend shore fishing?

\_\_\_\_\_ DAYS SHORE FISHING PER TRIP

29. Considering a typical trip during which you went saltwater shore fishing in *Zone 2* in the past 12 months, would you have made this trip had you not gone shore fishing?

1 YES

2 NO

30. On a *typical* trip in the past 12 months that involved spending at least one night away from your residence and included at least one day of saltwater shore fishing in *Zone 2*, please estimate how much you spent on each of the following items.

	Total Spent On Trip	Money Spent in Massachusetts	Money Spent In Zone 2
a) Auto costs (fuel, rental car, tolls) .....	\$ _____	\$ _____	\$ _____
b) Other transportation (airplane, etc.) .	\$ _____	\$ _____	\$ _____
c) Site entrance fee .....	\$ _____	\$ _____	\$ _____
d) Bait .....	\$ _____	\$ _____	\$ _____
e) Tackle .....	\$ _____	\$ _____	\$ _____
f) Parking .....	\$ _____	\$ _____	\$ _____
g) Lodging (hotel, rental, camping) .....	\$ _____	\$ _____	\$ _____
h) Restaurant meals .....	\$ _____	\$ _____	\$ _____
i) Groceries (food, drinks, ice, etc.) .....	\$ _____	\$ _____	\$ _____
j) Anything else (please specify) .....	\$ _____	\$ _____	\$ _____

\_\_\_\_\_

31. In the past 12 months, did you take any saltwater shore fishing trips in *Zone 2* that did not involve spending any nights away from your residence?

- 1 YES (*If yes, go to question 32*)
- 2 NO (*If no, skip to question 33*)

32. On a *typical* saltwater shore fishing trip in *Zone 2* in the past 12 months, that did not involve spending any nights away from your residence, please estimate how much you spent on each of the following items.

	Total Spent On Trip	Money Spent in Massachusetts	Money Spent In Zone 2
a) Auto costs (fuel, rental car, tolls).....	\$ _____	\$ _____	\$ _____
b) Other transportation (airplane, etc.) .	\$ _____	\$ _____	\$ _____
c) Site entrance fee .....	\$ _____	\$ _____	\$ _____
d) Bait .....	\$ _____	\$ _____	\$ _____
e) Tackle .....	\$ _____	\$ _____	\$ _____
f) Parking .....	\$ _____	\$ _____	\$ _____
g) Restaurant meals .....	\$ _____	\$ _____	\$ _____
h) Groceries (food, drinks, ice, etc.).....	\$ _____	\$ _____	\$ _____
i) Anything else (please specify) .....	\$ _____	\$ _____	\$ _____

The following questions will help us better understand saltwater shore anglers' reasons to fish and their expectations for a satisfying experience.

33. Since the year you started saltwater shore fishing in Massachusetts, the number of fish you catch per trip has generally:

- 1 DECREASED
- 2 INCREASED
- 3 STAYED ABOUT THE SAME
- 4 DON'T KNOW



34. Below is a list of reasons why people fish. Please circle the number that indicates how important each item is to you as a reason for going *saltwater shore* fishing in Massachusetts.

	Not At All Important	Slightly Important	Moderately Important	Very Important	Extremely Important
a) To be outdoors .....	1	2	3	4	5
b) For family recreation .....	1	2	3	4	5
c) To experience new and different things .....	1	2	3	4	5
d) For relaxation .....	1	2	3	4	5
e) To be close to the water .....	1	2	3	4	5
f) To obtain fish for eating.....	1	2	3	4	5
g) To get away from the demands of other people .....	1	2	3	4	5
h) For the experience of the catch .....	1	2	3	4	5
i) To test my equipment .....	1	2	3	4	5
j) To share experiences with friends, family, or other fishing partners .....	1	2	3	4	5
k) To catch a "trophy" fish .....	1	2	3	4	5
l) To develop my skills .....	1	2	3	4	5
m) For the challenge or sport .....	1	2	3	4	5
n) For the fun of catching fish .....	1	2	3	4	5
o) To catch fish to share with other people .....	1	2	3	4	5

35. Please list the three reasons from above that you would rank as most important to your Massachusetts *saltwater shore* fishing experience. (Insert the appropriate letters below)

\_\_\_\_\_ MOST IMPORTANT

\_\_\_\_\_ SECOND MOST IMPORTANT

\_\_\_\_\_ THIRD MOST IMPORTANT

36. Please indicate the extent to which you agree or disagree with each of the following statements about *saltwater shore fishing* in Massachusetts.

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
a) The more fish I catch the happier I am .....	1	2	3	4	5
b) A fishing trip can be successful even if no fish are caught .....	1	2	3	4	5
c) I usually eat the fish I catch .....	1	2	3	4	5
d) A successful fishing trip is one in which many fish are caught .....	1	2	3	4	5
e) I would rather catch one or two big fish than ten smaller fish .....	1	2	3	4	5
f) When I go fishing I'm just as happy if I don't catch a fish .....	1	2	3	4	5
g) It doesn't matter to me what type of fish I catch .....	1	2	3	4	5
h) The bigger the fish, the better the fishing trip .....	1	2	3	4	5
i) I'm just as happy if I don't keep the fish I catch .....	1	2	3	4	5
j) The saltwater shore fishing opportunities in Massachusetts generally meet my needs for a satisfying experience.....	1	2	3	4	5

37. Do you support or oppose the idea of a mandatory saltwater fishing license for Massachusetts? (Please circle only one number)

- 1 SUPPORT LICENSE WITHOUT A FEE
- 2 SUPPORT LICENSE WITH A FEE
- 3 OPPOSE LICENSE ALTOGETHER
- 4 NO OPINION

**38. Please indicate the extent to which you agree or disagree with the following statements as to why you don't participate in *saltwater shore fishing* in Massachusetts more often.**

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
a) Fishing regulations are too confusing .....	1	2	3	4	5
b) I believe an increase in my fishing activity would be bad for the resource .....	1	2	3	4	5
c) Costs associated with saltwater shore fishing are too high .....	1	2	3	4	5
d) I can't catch enough fish to suit me .....	1	2	3	4	5
e) I can't catch enough keepers to take home .....	1	2	3	4	5
f) Too far a drive to get to shore fishing sites .....	1	2	3	4	5
g) When fishing from shore, I can't catch the types of fish I prefer to catch .....	1	2	3	4	5
h) I have too many other demands on my time .....	1	2	3	4	5
i) It is difficult to find others to fish with me .....	1	2	3	4	5
j) Other leisure activities take up my time .....	1	2	3	4	5
k) Fishing regulations are too restrictive .....	1	2	3	4	5
m) Shore fishing sites are too crowded .....	1	2	3	4	5
n) I am afraid to eat the fish I catch because of pollutants and contamination .....	1	2	3	4	5

**39. Did you purchase a freshwater fishing license in your state of residence in 1998?**

- 1 YES
- 2 NO

**40. Please indicate whether you support or oppose the following management tools for management of Massachusetts' recreational saltwater fisheries.**

	Strongly Support	Somewhat Support	Neutral	Somewhat Oppose	Strongly Oppose	Don't Know
a) Releasing fish below a certain length (minimum size limit) .....	1	2	3	4	5	6
b) Releasing fish below a certain length and above a certain maximum length (slot limit) .....	1	2	3	4	5	6
c) Being allowed to keep only a certain number of fish you catch per day (daily bag limit) ...	1	2	3	4	5	6
d) Not being allowed to keep certain types of fish during certain times of year .....	1	2	3	4	5	6
e) Not allowing recreational anglers to sell their catch.....	1	2	3	4	5	6
f) Not allowing recreational harvest of striped bass in <i>federal</i> waters beyond three miles from shore .....	1	2	3	4	5	6
g) Increasing the minimum size limit while also increasing the daily bag limit of a given type of fish .....	1	2	3	4	5	6
h) Decreasing the minimum size limit while also decreasing the daily bag limit of a given type of fish .....	1	2	3	4	5	6

**41. Please indicate how important each of the following factors is in deciding whether you go saltwater shore fishing in Massachusetts as compared to some other type of fishing you may do in Massachusetts.**

	Not At All Important	Slightly Important	Moderately Important	Very Important	Extremely Important	Don't Do Any Other Fishing
a) The cost of shore fishing .....	1	2	3	4	5	6
b) The types of fish I can catch from shore .....	1	2	3	4	5	6
c) The number of fish I can take home .....	1	2	3	4	5	6
d) The distance to travel to a shore fishing site ..	1	2	3	4	5	6

42. For each of the types of fishing listed below (a through e), please indicate if the number of fishing trips you made per year in Massachusetts *decreased, stayed about the same, or increased* from 1988-1993 and from 1994-1998.

Circle minus sign for decreased ⊖

Circle “s” for stayed about the same ⊙

Circle plus sign for increased ⊕

Circle “n” for none if you did not do that kind of fishing during the years indicated ⊞

	1988 through 1993				1994 through 1998			
a) saltwater shore fishing in Massachusetts	-	s	+	n	-	s	+	n
b) saltwater charterboat fishing in Mass.	-	s	+	n	-	s	+	n
c) saltwater partyboat fishing in Mass.	-	s	+	n	-	s	+	n
d) saltwater private boat fishing in Mass.	-	s	+	n	-	s	+	n
e) freshwater fishing in Massachusetts	-	s	+	n	-	s	+	n

43. Please indicate how important each of the following is in your *selection* of a particular Massachusetts saltwater shore fishing location.

	Not At All Important	Slightly Important	Moderately Important	Very Important	Extremely Important
a) Distance from home to site.....	1	2	3	4	5
b) Species of fish typically caught at site.....	1	2	3	4	5
c) Size of fish typically caught.....	1	2	3	4	5
d) Number of fish typically caught.....	1	2	3	4	5
e) Scenery and natural surroundings.....	1	2	3	4	5
f) Cleanliness of water/ water quality.....	1	2	3	4	5
g) Ability to avoid crowds of people at site.....	1	2	3	4	5
h) Accessibility to site.....	1	2	3	4	5
i) Previous personal experience.....	1	2	3	4	5
j) Word of mouth.....	1	2	3	4	5
k) Availability of parking.....	1	2	3	4	5
l) Facilities at site.....	1	2	3	4	5

The following questions will help us to know more about saltwater shore anglers. The information provided will remain strictly confidential and you will not be identified with your answers.

44. How old were you on your last birthday?

\_\_\_\_\_ YEARS

45. Are you?

1 MALE            2 FEMALE

46. Would you describe your ethnic background as: (Please circle only one)

1 WHITE            4 ASIAN  
2 BLACK            5 NATIVE AMERICAN INDIAN  
3 HISPANIC        6 OTHER (PLEASE SPECIFY) \_\_\_\_\_

47. How many years of formal education have you completed?  
(for example: high school graduate (or GED) = 12)

\_\_\_\_\_ YEARS

48. What is the ZIP CODE of your current home residence?

\_\_\_\_\_

49. What is your current marital status?

1 SINGLE                            4 SEPARATED  
2 MARRIED                        5 WIDOWED  
3 DIVORCED

50. What is your approximate annual household income before taxes?

1 Under \$15,000	5 \$60,001 - \$85,000
2 \$15,001 - \$30,000	6 \$85,001 - \$110,000
3 \$30,001 - \$45,000	7 \$110,001 - \$135,000
4 \$45,001 - \$60,000	8 \$135,001 and above

**Any additional comments you may have about this survey or saltwater fishing in Massachusetts would be appreciated here:**

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**A summary report of the results of this survey will be posted in the spring of 1999 on our web site at:**

<http://www.umass.edu/hd/projects.html>

**Would you like a written summary of the results of this survey sent to you?**

- 1 YES
- 2 NO

Your contribution of time to this study is greatly appreciated. Please return your completed questionnaire in the postage paid return envelop or to the following address as soon as possible. **Thank you.**

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*Questionnaire #* \_\_\_\_\_