

Marine Mammal Deterrents Survey

The purpose of this survey is to gather your knowledge and perceptions about the nature of marine mammal interactions and use of deterrents currently employed by aquaculture farmers, commercial, recreational, and tribal fishermen, and property owners. We will use the data to create an index that will identify where the biggest problems are likely to be occurring. This index will then help NOAA Fisheries identify and prioritize those deterrents that should be tested for effectiveness. Your responses will be anonymous and will be kept confidential. Your participation is completely voluntary. Feel free to skip any questions you do not want to answer. Your responses are important and extremely valuable. To proceed, please click the "I agree" button.

* Indicates required question

1. I agree to take the survey *

Mark only one oval.

Yes

No

Sector

In the question below, you can only check one box. If you are a member of multiple sectors, please take one survey for each sector in which you partake. After submitting the survey, it will ask if you wish to respond again. Please click on the link so that you can take the survey as a member of a different sector.

2. Please identify your sector - check only one *

Mark only one oval.

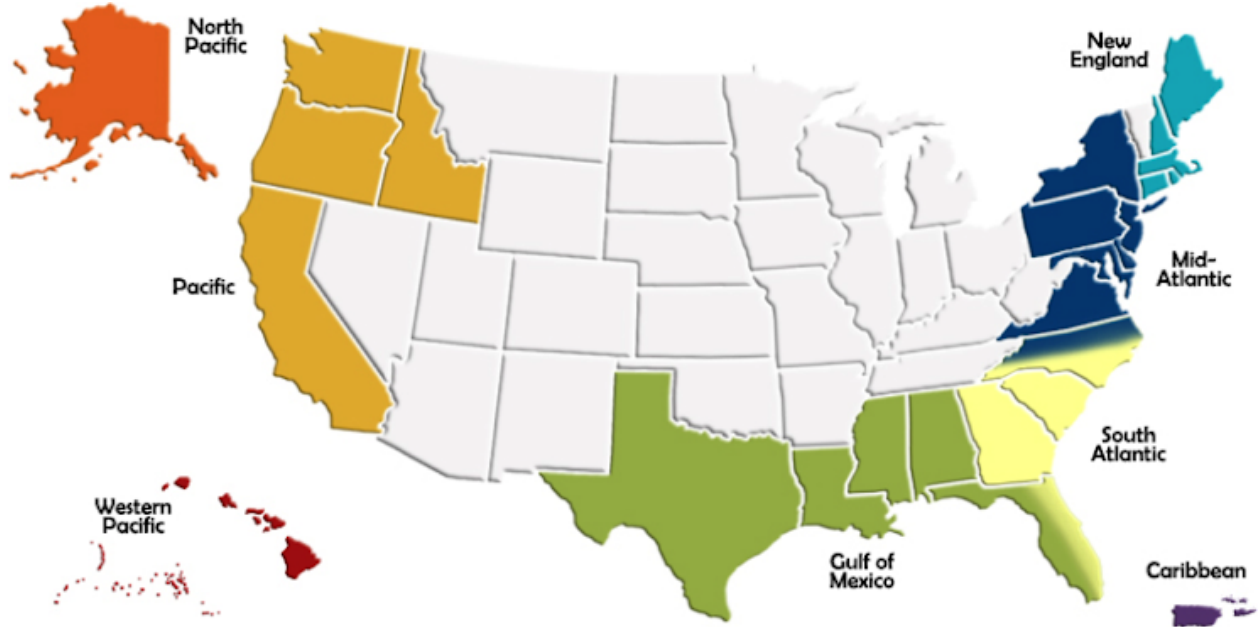
- Commercial fishing *Skip to question 3*
- Recreational fishing *Skip to question 3*
- Treaty/Tribal fishing *Skip to question 3*
- Aquaculture *Skip to question 38*
- Docks and other waterfront property owner or state/local governments that manage waterfront property *Skip to question 56*

Skip to question 3

Fisheries 1

If you checked either commercial, recreational, or treaty/tribal fishing above

3. In what Region do you fish (check all that apply)?



Check all that apply.

- New England/Northeast
- Mid-Atlantic
- South Atlantic
- Caribbean
- Gulf of Mexico
- Pacific
- North Pacific/Alaska
- Western Pacific/Pacific Islands

4. What gear(s) do you regularly use (check all that apply)?

Check all that apply.

- Rod/reel (includes bandits)
- Handlines and/or hand-operated pole and line
- Trolling hook and line
- Bottom longline
- Drifting longline
- Bottom trawl
- Midwater or surface trawl
- Traps/pots
- Dredge
- Purse seine or encircling net
- Gillnet
- Other nets
- Other: _____

5. Where do you fish from (check all)?

Check all that apply.

- Boat
- Dock/pier/wharf
- Shore
- Other: _____

6. Do you use bait?

Mark only one oval.

- Yes
- No *Skip to question 8*

Bait type

7. If yes, what types of bait (check all that apply)

Check all that apply.

- artificial (e.g., lures)
- natural (e.g., squid, fish, crustaceans, poultry)
- Other: _____

Marine Mammal Encounters - Fishing

8. Have you had any encounters with marine mammals (e.g., bycatch/entanglement, depredation, close proximity, etc.)? *

Mark only one oval.

- Yes
- No

Marine Mammal Encounters - Fishing cont'd

9. If yes, how frequently?

Mark only one oval.

- Often
- Sometimes
- Rarely

10. If yes, what types of marine mammals do you interact with (check all that apply)?

Check all that apply.

- pinnipeds (seals and/or sea lions)
- toothed whales (e.g., dolphins, porpoises, killer whales, pilot whales, sperm whales)
- baleen whales (e.g., gray whales, humpback whales, right whales)
- Don't know
- Other: _____

11. If you know the species (e.g., California sea lion, bottlenose dolphin, harbor porpoise, harbor seal), please list. Otherwise, please click next.

12. In what seasons do you encounter marine mammals (check all that apply)

Check all that apply.

- Winter (Dec.-Feb.)
- Spring (Mar.-May)
- Summer (Jun.-Aug.)
- Fall (Sep.-Nov.)

13. Do you lose bait during these interactions?

Mark only one oval.

- Yes *Skip to question 14*
- No *Skip to question 15*

Bait loss due to marine mammal encounters

14. Please estimate how much bait is lost during the season(s)

Mark only one oval.

- All
- Most
- Half
- Not much
- Don't know
- Other: _____

Loss of target catch

15. Is your target catch lost during these encounters?

Mark only one oval.

- Yes *Skip to question 16*
- No *Skip to question 17*

Estimate of loss of target catch

16. Please estimate how much target catch is lost during the season(s)

Mark only one oval.

- All
- Most
- Half
- Not much
- Don't know
- Other: _____

Skip to question 17

Damage to target catch

17. Is your target catch damaged during these encounters?

Mark only one oval.

- Yes *Skip to question 18*
- No *Skip to question 19*

Amount of damage to target catch

18. Please estimate how much target catch is damaged during the season(s)

Mark only one oval.

- All
- Most
- Half
- Not much
- Don't know
- Other: _____

Lost or damaged gear and time

19. Have you lost gear during these encounters?

Mark only one oval.

- Yes
- No

20. Has your gear been damaged during these encounters?

Mark only one oval.

Yes

No

21. Do you lose time fishing when dealing with these encounters?

Mark only one oval.

Yes

No *Skip to question 25*

Lost time

22. Approximately how much time per trip do you lose in dealing with marine mammal encounters?

Mark only one oval.

Most of the time

Sometimes

Rarely

23. How are you impacted (check all that apply)?

Check all that apply.

Need to pull gear and change location

Additional fuel costs

Gear destruction

Gear modification

Other: _____

24. Please describe the economic or cultural loss (optional)

Deterrents

25. Have you tried to deter or reduce encounters with marine mammals?

Mark only one oval.

Yes *Skip to question 26*

No *Skip to question 29*

Deterrence methods

26. Please describe devices or methods you've used

27. Have those deterrents been successful at reducing marine mammal interactions with your gear, equipment, or property?

Mark only one oval.

Yes *Skip to question 28*

No *Skip to question 29*

Effectiveness of deterrents

28. Please estimate effectiveness

Mark only one oval.

- Very effective
- Moderately effective
- Rarely effective
- Don't know
- Other: _____

Gear modification

29. Have you modified your gear to reduce interactions with marine mammals (for fishing only, otherwise please answer NO)?

Mark only one oval.

- Yes
- No *Skip to question 33*

Gear modifications

30. Please describe devices or methods you've used for fishing only, otherwise please skip)?

31. Have those gear modifications been successful at reducing negative marine mammal interactions with your gear (for fishing only, otherwise please skip)??

Mark only one oval.

Yes *Skip to question 32*

No *Skip to question 33*

Effectiveness of gear modifications

32. Please estimate effectiveness at reducing the number or frequency of encounters (for fishing only, otherwise please skip)?

Mark only one oval.

Very effective

Moderately effective

Rarely effective

Don't know

Other: _____

New ideas

33. Do you have ideas for gear modification or deterrents to safely and effectively reduce marine mammal interactions with your gear/property?

Mark only one oval.

Yes

No *Skip to question 37*

New ideas details

34. Please describe your ideas

35. What would be the estimated cost to implement these new methods?

36. Would you be willing to test out new deterrents to test their efficacy?

Mark only one oval.

- Yes
- No
- Maybe

Follow-up

37. Can we follow up with you?

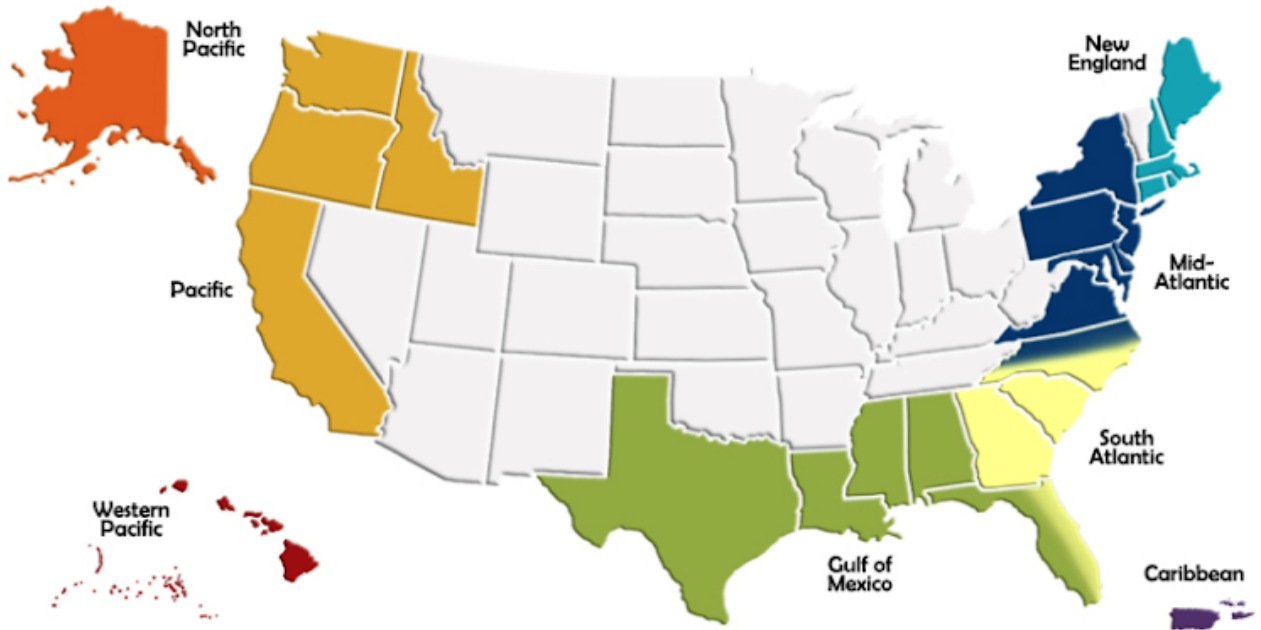
Mark only one oval.

- Yes *Skip to question 65*
- No

Skip to question 65

Aquaculture

38. In what NMFS Region do you operate your farm (check all that apply)?



Check all that apply.

- New England/Northeast
- Mid-Atlantic
- South Atlantic
- Caribbean
- Gulf of Mexico
- Pacific/West Coast
- North Pacific/Alaska
- Western Pacific/Pacific Islands

39. What type of system do you use (check all that apply)?

Check all that apply.

- Inshore (State waters) net pens - surface water
- Inshore (State waters) net pens - submerged
- Raft systems (nearshore) - surface to mid-water
- Inshore (state waters) cages
- Ponds or raceways connected to estuaries or rivers
- Ropes (seaweed/bivalves) - longlines
- Bottom culture (state waters)
- Other: _____

40. In what depth of water does your farm operate?

Mark only one oval.

- Intertidal
- 0-10 feet
- 10-30 feet
- 30-90 feet
- >90 feet

41. How long is your structure in the water?

Mark only one oval.

- Seasonal
- Year-round
- Other: _____

42. What is the duration of your permit?

Mark only one oval.

- 1 year or less
- 2 to 5 years
- > 5 years
- Prefer not to answer

43. Have you or your operation had any encounters with marine mammals? *

Mark only one oval.

- Yes
- No

Marine Mammal Encounters - Aquaculture

44. How frequently are these interactions?

Mark only one oval.

- Often
- Sometimes
- Rarely

45. What types of marine mammals interact with your equipment (check all that apply)?

Check all that apply.

- pinnipeds (seals and/or sea lions)
- toothed whales (e.g., dolphins, porpoises, killer whales, pilot whales, sperm whales)
- baleen whales (e.g., gray whales, humpback whales, right whales)
- Don't know
- Other: _____

46. If you know the species (e.g., California sea lion, bottlenose dolphin, harbor porpoise, harbor seal), please list

47. In what seasons do you encounter marine mammals (check all that apply)

Check all that apply.

- Winter (Dec.-Feb.)
- Spring (Mar.-May)
- Summer (Jun.-Aug.)
- Fall (Sep.-Nov.)

48. Do you lose product during these interactions?

Mark only one oval.

Yes

No *Skip to question 50*

Loss of product

49. Please estimate how much of your product is lost

Mark only one oval.

All

Most

Half

Not much

Don't know

Other: _____

Damage of product

50. Is your product damaged during these encounters?

Mark only one oval.

Yes *Skip to question 51*

No *Skip to question 52*

Extent of damage

51. Please estimate how much product is damaged

Mark only one oval.

- All
- Most
- Half
- Not much
- Don't know
- Other: _____

Damage to gear or facility

52. Is your facility/gear damaged during these encounters?

Mark only one oval.

- Yes
- No *Skip to question 25*

Loss of time

53. Approximately how much production time do you lose in dealing with marine mammal encounters?

Mark only one oval.

- All
- Most
- Half
- Not much
- Don't know
- Other: _____

54. How are you impacted (check all that apply)?

Check all that apply.

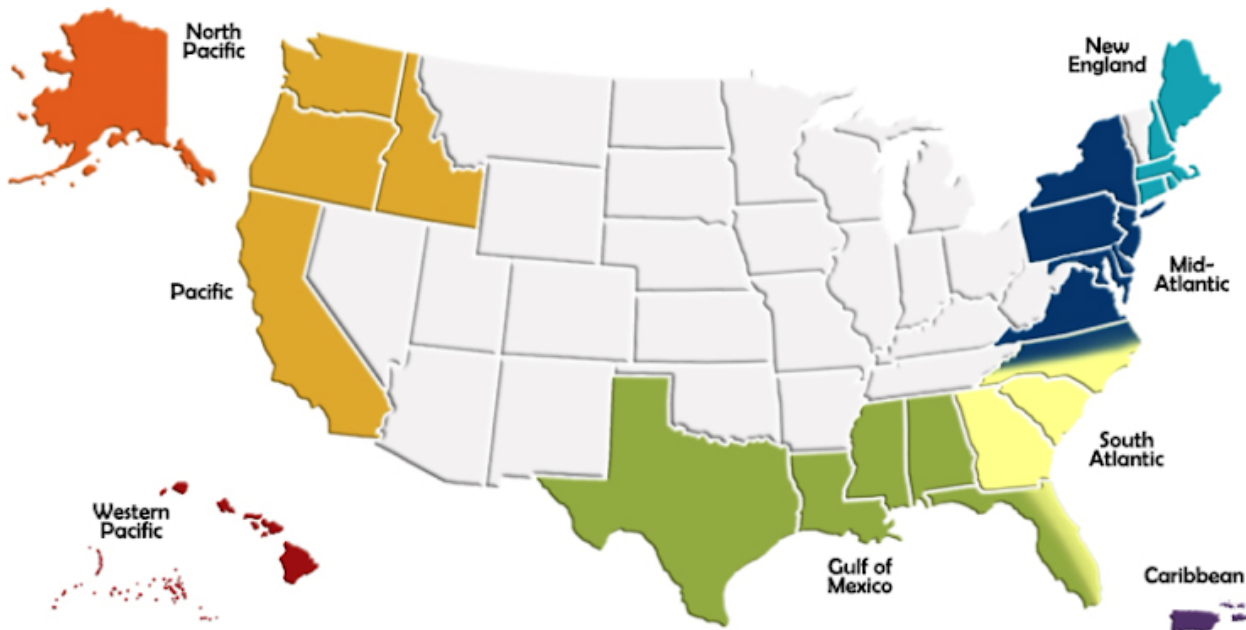
- Need to pull equipment and change location
- Equipment destruction
- Equipment modification/repair
- Other: _____

55. Approximately how much (\$) has the damage been per year?

Skip to question 25

Property

56. In what NMFS Region do you operate (check all that apply)?



Check all that apply.

- New England/Northeast
- Mid-Atlantic
- South Atlantic
- Caribbean
- Gulf of Mexico
- Pacific/West Coast
- North Pacific/Alaska
- Western Pacific/Pacific Islands

57. What type of property (personal or commercial; check all that apply)?

Check all that apply.

- Dock
- Harbor/marina
- Beach/Shoreline
- Boat
- Processing facility
- Floating residence

58. Has your property (other than fishing gear) been damaged due to marine mammals? *

Mark only one oval.

Yes

No

Types of marine mammals

59. What types of marine mammals interact with your property (check all that apply)?

Check all that apply.

- pinnipeds (seals and/or sea lions)
- toothed whales (e.g., dolphins, porpoises, killer whales, pilot whales, sperm whales)
- baleen whales (e.g., gray whales, humpback whales, right whales)
- If you know the species (e.g., California sea lion, bottlenose dolphin, harbor seal)
- Don't know
- Other: _____

60. If you know the species (e.g., California sea lion, bottlenose dolphin, harbor porpoise, harbor seal), please list

Marine mammal impacts to property

61. In what seasons do you encounter marine mammals (check all that apply)

Check all that apply.

- Winter (Dec.-Feb.)
- Spring (Mar.-May)
- Summer (Jun-Aug)
- Fall (Sep.-Nov.)

Estimate of property damage

62. Please estimate how much of your property is damaged

Mark only one oval.

- All
- Most
- Half
- Not much

63. Approximately how much (\$) has the damage been per year?

64. Please describe the nature of the damage

Skip to question 37

Contact info.

65. Please provide contact information

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