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Social Sciences Branch
Northeast Fisheries Science Center
Narragansett, RI



SOCIAL AND ECONOMIC IMPACTS OF HURRICANE SANDY ON THE COMMERCIAL AND RECREATIONAL FISHING INDUSTRIES OF NEW YORK AND NEW JERSEY



Principal Investigator: Dr. Lisa L. Colburn, NOAA/NMFS/NEFSC

Co-Principal Investigator: Dr. Patricia M. Clay, NOAA/NMFS/NEFSC

Your responses and participation in this survey are **CONFIDENTIAL**.

Questions about the survey? Phone: 401-782-3253/Fax: 401-782-3201/Email: lisa.l.colburn@noaa.gov

Public reporting burden for this collection of information is estimated to average 25 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other suggestions for reducing this burden to Lisa L. Colburn, 28 Tarzwell Dr., Narragansett, RI 02882. Email: lisa.l.colburn@noaa.gov

Responses to this information request are confidential under section 402(b) of the Magnuson-Stevens Act as amended in 2006. Responses are also confidential under NOAA Administrative Order 216-100, which sets forth procedures to protect confidentiality of fishery statistics. Notwithstanding any other provisions of the law, no person is required to respond to,

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Brief Information

Project Summary

Our research involves assessing the impacts that Hurricane Sandy had on the fishing industry of New York and New Jersey during the year following the storm. Our emphasis will be on impacts on commercial and recreational fishing businesses, individual well-being, and fishing communities. The individuals interviewed will be representative of the diversity of the fishing industry in the states of New York and New Jersey.

Why am I Being Invited to Take Part in This Study?

You are being invited to take part in the research project we have already described to you. Our intent is to determine the extent that you were affected by Hurricane Sandy during the year following the storm and how you feel about your ability to recover. Responses to our questions will not be associated with your name.

If you decide to take part in this study, your participation will involve responding to several questions concerning the impacts of Hurricane Sandy on your business or fishing activity.

Your part in this study is anonymous. That means that your answers to all questions are private. No one else can know if you participated in this study and no one else can find out what your answers were. Scientific reports will be based on group data and will not identify you or any individual as being in this project.

How much time is required?

The average time to complete the survey is 25 minutes.

Who will see the information you give?

The information you provide will be combined with responses from other participants and analyzed. The analysis of the data will be added to reports or publications and available by anyone whom is interested in the research.

The decision to participate in this research project is up to you.

Participation is entirely voluntary. You do not have to participate and you can refuse to answer any question.

If you have any questions, please feel free to contact Lisa L. Colburn the person responsible for this study.

THANK YOU FOR YOUR TIME AND PARTICIPATION IN THIS STUDY.

Post-Hurricane Sandy One Year Assessment Survey Questions

**The Information you provide will remain strictly confidential.
You will not be identified with your answers**

Interviewer: _____
Date: _____

Location (home/business): _____
Community: _____

Type of business (Check all that apply):

- Bait & tackle
- Marina
- Seafood dealer
- Aquaculture
- Other business: _____

SECTION A - DEMOGRAPHIC INFORMATION

Demographic information will allow us to better understand the unique characteristics of the fishing industry participants in New York and New Jersey

Name: _____ Age: _____
Position: _____ Business name: _____
Address: _____

SECTION B - BUSINESS IMPACTS

This section will help understand impacts of Hurricane Sandy on business in terms of physical damages, lost revenue and income, attribution of recovery, impediments to recovery and level of recovery

1. How many years have you been involved in this business? _____
2. Is this business your primary source of income? **Yes** **No** (If *yes* go to question **3**)
 - 2.1. If *no*, what other jobs/businesses do you currently have? _____
3. Did this business close due to Hurricane Sandy? **Yes** **No** (If *no* go to question **3.2**)
 - 3.1. If *yes*, how long? _____
 - 3.2. If *no*, was the normal business schedule affected by Sandy? **Yes** **No** (If *no* go to question **4**)
 - 3.2.1. If *yes*, how? _____
4. Were you prevented from accessing your business? **Yes** **No** (If *no* go to question **5**)
 - 4.1. If *yes*, how long? _____
5. *If applicable*: Has the business returned to a normal schedule since the storm? **Yes** **No** (If *yes* go to question **5.2**)
 - 5.1. If *no*, what percent is it to normal? **(Circle) 75%, 50%, 25%, 10%, 0%**
 - 5.2. If *yes*, how long did it take for it to return to a normal schedule? _____
6. Average number of people employed annually before Hurricane Sandy _____
 - 6.1. Changes due to the storm (circle): **increased** or **decreased** to _____
 - 6.2. *If applicable*: has the number of employees gone back to what it was before the storm? **Yes** **No** (If *no* go to question **7**)
 - 6.2.1. If *yes*, how long did it take for it to go back? _____
7. Did this business experience physical damages or losses due to Hurricane Sandy? **Yes** **No** (If *no* go to question **8**)

Survey Type: Businesses

7.1. If *yes*, check all that apply and indicate value of damages or losses and percentage insured:

	<u>Damages/losses</u>	<u>% Insured (Circle)</u>
<input type="checkbox"/> Buildings	\$ _____	100%, 75%, 50%, 25%, 10%, 0%
<input type="checkbox"/> Floating docks	\$ _____	100%, 75%, 50%, 25%, 10%, 0%
<input type="checkbox"/> Bait	\$ _____	100%, 75%, 50%, 25%, 10%, 0%
<input type="checkbox"/> Product (fresh fish or bait)	\$ _____	100%, 75%, 50%, 25%, 10%, 0%
<input type="checkbox"/> Merchandise	\$ _____	100%, 75%, 50%, 25%, 10%, 0%
<input type="checkbox"/> Gear (nets, pots, traps, etc...)	\$ _____	100%, 75%, 50%, 25%, 10%, 0%
<input type="checkbox"/> Vessel	\$ _____	100%, 75%, 50%, 25%, 10%, 0%
<input type="checkbox"/> Other: _____	\$ _____	100%, 75%, 50%, 25%, 10%, 0%

7.2. What is the total estimated value of physical damages or losses to your business before insurance? \$ _____

7.3. Where are you getting your calculation? (e.g. Insurance company) _____

8. Was revenue affected by Hurricane Sandy during the 12 months following the storm? **Yes** **No** (If *no* go to question 9)

8.1. If *yes*, how? (Compare to the 12 months prior to Sandy)

8.1.1. Increased _____%

8.1.2. Decreased _____%

8.2. If *yes*, describe why your revenue was affected:

Business was/is down

Closed early for the season

No fish

Physical damages

Other: _____

8.3. What is the estimated value of lost revenue for the 12 months following Sandy? \$ _____

9. Do you attribute any changes in your business to Hurricane Sandy? **Yes** **No** (If *no* go to question 10)

9.1. If *yes*, describe: _____

10. Are there other factors affecting your business? **Yes** **No** (If *no* go to question 11)

10.1. If *yes*, describe:

Weather

Economy

Market prices

Fuel prices

Pollution

Climate Change

Regulations

Other _____

11. Did you relocate your business operation due to the storm? **Yes** **No** (If *yes* go to question 11.2)

11.1. If *no*, do you plan to relocate your business? _____

11.2. If *yes*, why? _____

12. What, if any, impediments to recovery did you experience?

Building permits

Zoning, ordinances etc...

Time to get assistance

Other _____

13. If affected by Hurricane Sandy, what do you credit your level of recovery to?

Family, friends, church, community groups etc....

- Bank loan
- Unemployment benefits
- FEMA
- SBA
- Other _____

14. Would you say that Hurricane Sandy had any positive impacts on your business? **Yes** **No** (If *no* go to question 15)

14.1. If yes, what? _____

SECTION C – COMMUNITY RECOVERY

This section helps understand how communities may have been affected by Hurricane Sandy as well as perceptions of potential changes in the communities in the future

15. Have there been any major changes to the community where your business is located *since* Hurricane Sandy? **Yes** **No** (If *no* go to question 16)

15.1. If yes, what? (Zoning, ordinances, redevelopment etc...): _____

16. What, if any, changes *do you foresee* for this community as a result of Hurricane Sandy? _____

SECTION D – WELL-BEING

This section is intended to capture the ability of the participant to be prepared for and cope with change in general and in relation to natural disasters

Please state level of agreement with the statements below:

- 17. **I have other options available if I decide to no longer be in my current occupation.**
 1 strongly disagree 2 disagree 3 neutral 4 agree 5 strongly agree
- 18. **I am confident that I could get work elsewhere if I needed to.**
 1 strongly disagree 2 disagree 3 neutral 4 agree 5 strongly agree
- 19. **I would be nervous trying something outside of my current occupation.**
 5 strongly disagree 4 disagree 3 neutral 2 agree 1 strongly agree
- 20. **I have planned for my financial security.**
 1 strongly disagree 2 disagree 3 neutral 4 agree 5 strongly agree
- 21. **Every time there is a change I plan a way to make it work for myself.**
 1 strongly disagree 2 disagree 3 neutral 4 agree 5 strongly agree
- 22. **I am more likely to adapt to change compared to others in this business.**
 1 strongly disagree 2 disagree 3 neutral 4 agree 5 strongly agree
- 23. **I do not think I am competitive enough to continue in this business much longer.**
 1 strongly disagree 2 disagree 3 neutral 4 agree 5 strongly agree
- 24. **I am confident things will turn out well for me.**
 1 strongly disagree 2 disagree 3 neutral 4 agree 5 strongly agree

Post-Hurricane Sandy One Year Assessment Survey Questions

**The Information you provide will remain strictly confidential.
You will not be identified with your answers**

Interviewer: _____
Date: _____

Location of interview: _____
Community: _____

SECTION A - DEMOGRAPHIC INFORMATION

Demographic information will allow us to better understand the unique characteristics of the fishing industry participants in New York and New Jersey

Name: _____ Age: _____
Position on the boat: _____ Primary gear type: _____
Address: _____
Number of vessels _____ Length of primary vessel: _____
Primary species: _____
Do you fish **inshore** or **off shore**? (circle all that apply)
Do you have **federal** or **state** fishing permits? (circle all that apply)

SECTION B - BUSINESS IMPACTS

This section will help understand impacts of Hurricane Sandy on business in terms of physical damages, lost revenue and income, attribution of recovery, impediments to recovery and level of recovery

1. How many years of **fishing experience do you have**? _____
2. Is **fishing** your primary source of income? **Yes** **No** (If *yes* go to question **3**)
 - 2.1. If *no*, what other jobs/businesses do you currently have? _____
3. Did **you have to stop fishing at all** due to Hurricane Sandy? **Yes** **No** (If *no* go to question **3.2**)
 - 3.1. If *yes*, how long? _____
 - 3.2. If *no*, was your **normal fishing schedule** affected by Sandy? **Yes** **No** (If *no* go to question **4**)
 - 3.2.1. If *yes*, how? _____
4. Were you prevented from **accessing the docks, vessel or other infrastructure indispensable for your fishing activity**?
Yes **No** (If *no* go to question **5**)
 - 4.1. If *yes*, how long? _____
5. *If applicable*: Has your **fishing activity** returned to a normal schedule since the storm? **Yes** **No** (If *yes* go to question **5.2**)
 - 5.1. If *no*, what percent is it to normal? (**Circle**) **75%, 50%, 25%, 10%, 0%**
 - 5.2. If *yes*, how long did it take for it to return to a normal schedule? _____
6. Average **crew size** before Hurricane Sandy _____
 - 6.1. Changes due to the storm (circle): **increased** or **decreased** by _____
 - 6.2. *If applicable*: has the number of employees gone back to what it was before the storm? **Yes** **No** (If *no* go to question **7**)
 - 6.2.1. If *yes*, how long did it take for it to go back? _____

7. Did your **fishing business** experience physical damages or losses due to Hurricane Sandy? **Yes** **No** (If *no* go to question **8**)

7.1. If *yes*, check all that apply and indicate value of damages or losses and percentage insured:

	<u>Damages/losses</u>	<u>% Insured (Circle)</u>
<input type="checkbox"/> Bait	\$ _____	100%, 75%, 50%, 25%, 10%, 0%
<input type="checkbox"/> Product (e.g. fresh fish)	\$ _____	100%, 75%, 50%, 25%, 10%, 0%
<input type="checkbox"/> Gear (e.g. nets, pots, traps)	\$ _____	100%, 75%, 50%, 25%, 10%, 0%
<input type="checkbox"/> Vessel	\$ _____	100%, 75%, 50%, 25%, 10%, 0%
<input type="checkbox"/> Other: _____	\$ _____	100%, 75%, 50%, 25%, 10%, 0%

7.2. What is the total estimated value of physical damages or losses to your **fishing business** before insurance?
\$ _____

7.3. From where are you getting your calculation? (e.g. Insurance company) _____

8. Was **your** revenue affected by Hurricane Sandy during the 12 months following the storm? **Yes** **No** (If *no* go to question **9**)

8.1. If *yes*, how? (Compare to the 12 months prior to Sandy)

8.1.1. Increased _____%

8.1.2. Decreased _____%

8.2. If *yes*, describe why your revenue was affected:

Business was/is down

Ended season early

No fish

Physical damages

Other: _____

8.3. What is the estimated value of lost revenue for the 12 months following Sandy? \$ _____

9. Do you attribute any changes **in your fishing business** to Hurricane Sandy? **Yes** **No** (If *no* go to question **10**)

9.1. If *yes*, describe: _____

10. Are there other factors affecting **your fishing business**? **Yes** **No** (If *no* go to question **11**)

10.1. If *yes*, describe:

Weather

Economy

Market prices

Fuel prices

Pollution

Climate Change

Regulations

Other _____

11. Did you relocate **any aspect of your fishing operation** (e.g. homeport, fishing grounds) due to the storm? **Yes** **No**
(If *yes* go to question **11.2**)

11.1. If *no*, do you plan to relocate? _____

11.2. If *yes*, why? _____

12. What, if any, impediments to recovery did you experience?

Building permits

Zoning, ordinances etc...

Time to get assistance

Other _____

13. If affected by Hurricane Sandy, what do you credit your level of recovery to?

- Family, friends, church, community groups etc....
- Bank loan
- Unemployment benefits
- FEMA
- SBA
- Other _____

14. Would you say that Hurricane Sandy had any positive impacts **on the fishery**? Yes No (If *no* go to question 15)
- 14.1. If yes, what? _____

SECTION C – COMMUNITY RECOVERY

This section helps understand how communities may have been affected by Hurricane Sandy as well as perceptions of potential changes in the communities in the future

15. Have there been any major changes to the community where your business is located *since* Hurricane Sandy? Yes No (If *no* go to question 16)
- 15.1. If yes, what? (Zoning, ordinances, redevelopment etc...): _____
16. What, if any, changes *do you foresee* for this community as a result of Hurricane Sandy? _____

SECTION D – WELL-BEING

This section is intended to capture the ability of the participant to be prepared for and cope with change in general and in relation to natural disasters

Please state level of agreement with the statements below:

17. **I have other options available if I decide to no longer be a fisherman.**
 1 strongly disagree 2 disagree 3 neutral 4 agree 5 strongly agree
18. **I am confident that I could get work elsewhere if I needed to.**
 1 strongly disagree 2 disagree 3 neutral 4 agree 5 strongly agree
19. **I would be nervous trying something outside the fishery.**
 5 strongly disagree 4 disagree 3 neutral 2 agree 1 strongly agree
20. **I have planned for my financial security.**
 1 strongly disagree 2 disagree 3 neutral 4 agree 5 strongly agree
21. **Every time there is a change I plan a way to make it work for myself.**
 1 strongly disagree 2 disagree 3 neutral 4 agree 5 strongly agree
22. **I am more likely to adapt to change compared to other fishermen.**
 1 strongly disagree 2 disagree 3 neutral 4 agree 5 strongly agree
23. **I do not think I am competitive enough to continue to be a fisherman much longer.**
 1 strongly disagree 2 disagree 3 neutral 4 agree 5 strongly agree
24. **I am confident things will turn out well for me.**

Post-Hurricane Sandy One Year Assessment Survey Questions

The Information you provide will remain strictly confidential.
You will not be identified with your answers

Interviewer: _____
Date: _____

Location of interview: _____
Community: _____

SECTION A - DEMOGRAPHIC INFORMATION

Demographic information will allow us to better understand the unique characteristics of the fishing industry participants in New York and New Jersey

Name: _____ Age: _____
Position: _____ Business type: _____
Address: _____
Number of vessels _____ Length of primary vessel: _____
Primary species: _____
Do you fish **inshore** or **off shore**? (circle all that apply)
Do you have **federal** or **state** fishing permits? (circle all that apply)

SECTION B - BUSINESS IMPACTS

This section will help understand impacts of Hurricane Sandy on business in terms of physical damages, lost revenue and income, attribution of recovery, impediments to recovery and level of recovery

1. How many years of **experience on the party/charter business do you have**? _____
2. Is **the party/charter business** your primary source of income? **Yes** **No** (If *yes* go to question **3**)
 - 2.1. If *no*, what other jobs/businesses do you currently have? _____
3. Did **you have to stop operating at all** due to Hurricane Sandy? **Yes** **No** (If *no* go to question **3.2**)
 - 3.1. If *yes*, how long? _____
 - 3.2. If *no*, was your **normal business schedule** affected by Sandy? **Yes** **No** (If *no* go to question **4**)
 - 3.2.1. If *yes*, how? _____
4. Were you prevented from **accessing the docks, vessel or other infrastructure indispensable for your party/charter activity**? **Yes** **No** (If *no* go to question **5**)
 - 4.1. If *yes*, how long? _____
5. *If applicable*: Has your **business** returned to a normal schedule since the storm? **Yes** **No** (If *yes* go to question **5.2**)
 - 5.1. If *no*, what percent is it to normal? (**Circle**) **75%**, **50%**, **25%**, **10%**, **0%**
 - 5.2. If *yes*, how long did it take for it to return to a normal schedule? _____
6. Average **crew size** before Hurricane Sandy _____
 - 6.1. Changes due to the storm (circle): **increased** or **decreased** by _____
 - 6.2. *If applicable*: has the number of employees gone back to what it was before the storm? **Yes** **No** (If *no* go to question **7**)
 - 6.2.1. If *yes*, how long did it take for it to go back? _____

7. Did your **party/charter business** experience physical damages or losses due to Hurricane Sandy? **Yes** **No** (If *no* go to question **8**)

7.1. If *yes*, check all that apply and indicate value of damages or losses and percentage insured:

	<u>Damages/losses</u>	<u>% Insured (Circle)</u>
<input type="checkbox"/> Bait	\$ _____	100%, 75%, 50%, 25%, 10%, 0%
<input type="checkbox"/> Product (e.g. fresh fish)	\$ _____	100%, 75%, 50%, 25%, 10%, 0%
<input type="checkbox"/> Gear (e.g. nets, pots, traps)	\$ _____	100%, 75%, 50%, 25%, 10%, 0%
<input type="checkbox"/> Vessel	\$ _____	100%, 75%, 50%, 25%, 10%, 0%
<input type="checkbox"/> Other: _____	\$ _____	100%, 75%, 50%, 25%, 10%, 0%

7.2. What is the total estimated value of physical damages or losses to your **party/charter business** before insurance? \$ _____

7.3. From where are you getting your calculation? (e.g. Insurance company) _____

8. Was revenue affected by Hurricane Sandy during the 12 months following the storm? **Yes** **No** (If *no* go to question **9**)

8.1. If *yes*, how? (Compare to the 12 months prior to Sandy)

8.1.1. Increased _____ %

8.1.2. Decreased _____ %

8.2. If *yes*, describe why your revenue was affected:

Business was/is down

Ended season early

No fish

Physical damages

Other: _____

8.3. What is the estimated value of lost revenue for the 12 months following Sandy? \$ _____

9. Do you attribute any changes **in your party/charter business** to Hurricane Sandy? **Yes** **No** (If *no* go to question **10**)

9.1. If *yes*, describe: _____

10. Are there other factors affecting **your party/charter business**? **Yes** **No** (If *no* go to question **11**)

10.1. If *yes*, describe:

Weather

Economy

Market prices

Fuel prices

Pollution

Climate Change

Regulations

Other: _____

11. Did you relocate **any aspect of your party/charter operation** (e.g. marina, fishing grounds) due to the storm? **Yes** **No** (If *yes* go to question **11.2**)

11.1. If *no*, do you plan to relocate? _____

11.2. If *yes*, why? _____

12. What, if any, impediments to recovery did you experience?

Building permits

Zoning, ordinances etc...

Time to get assistance

Other: _____

13. If affected by Hurricane Sandy, what do you credit your level of recovery to?

- Family, friends, church, community groups etc....
- Bank loan
- Unemployment benefits
- FEMA
- SBA
- Other _____

14. Would you say that Hurricane Sandy had any positive impacts **on the party/charter business**? **Yes** **No** (If *no* go to question 15)
- 14.1. If yes, what? _____

SECTION C – COMMUNITY RECOVERY

This section helps understand how communities may have been affected by Hurricane Sandy as well as perceptions of potential changes in the communities in the future

15. Have there been any major changes to the community where your business is located *since* Hurricane Sandy? **Yes** **No** (If *no* go to question 16)
- 15.1. If yes, what? (Zoning, ordinances, redevelopment etc...): _____
16. What, if any, changes *do you foresee* for this community as a result of Hurricane Sandy? _____

SECTION D – WELL-BEING

This section is intended to capture the ability of the participant to be prepared for and cope with change in general and in relation to natural disasters

Please state level of agreement with the statements below:

17. **I have other options available if I decide to no longer be in my current occupation.**
 1 strongly disagree 2 disagree 3 neutral 4 agree 5 strongly agree
18. **I am confident that I could get work elsewhere if I needed to.**
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21. **Every time there is a change I plan a way to make it work for myself.**
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23. **I do not think I am competitive enough to continue in this business much longer.**
 1 strongly disagree 2 disagree 3 neutral 4 agree 5 strongly agree
24. **I am confident things will turn out well for me.**

