Fisheries Science: FISC-D-22-00042

COVID-19 impacts on the Bangladesh shrimp industry: A sequential survey-based case study from southwestern Bangladesh Abul Bashar, Richard D Heal, Neaz A. Hasan ,* Md. Abdus Salam, Mohammad Mahfujul Haque

CovShrimp Consumer Response

We are collecting data to understand the impact that COVID-19 has had on aquaculture in Bangladesh. To assist us, we would be grateful if you could answer the questions as honestly as

possible. Please be sure that all responses are treated in confidence and any results from the data will be aggregated and anonymized.

* Required

1. Market code *

Mark only one oval.

M 01 M 02 M 03

2. 1. Name *

3. 2. Age *

4. 3. Gender *

Mark only one oval.

Female
Male
Prefer not to say
Other:

	5.	4. Address	(Village,	Post office,	Upazilla,	District)	*
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5. Educational qualification	n *
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Mark only one oval.

Primary	
Secondary	
Higher education (University)	
Other:	

7. 6. Employment type of the respondent *

Mark only one oval.	
Government employee	
Non-government employee	
Business man	
Days man	
Other:	

8. 7. Monthly income (Thousand) *

Mark only one oval.

Less than 10,000 BDT

- _____ 10,000 30,000 BDT
- 30,000 50,000 BDT
- 50,000 80,000 BDT
- More than 80,000 BDT

Food preference as main protein source

 8. Which of the following foods was the main source of protein for your family * PRE-COVID?

Check all that apply.

Other salt water finfish (For example - Vhetki, Parshe)
Other fresh water finfish (Fro example - Pangasius, Tilapia, Carps)
Bagda (Shrimp)
Golda (Prawn)
Chicken
Beef
Egg
Dairy products
Other:

10. 9. Which of the following foods was the main source of protein for your family POST-COVID?

Check all that apply.

Other saltwater finfish (For example - Vhetki, Parshe)
Other fresh water finfish (Fro example - Pangasius, Tilapia, Carps)
Bagda (Shrimp)
Golda (Prawn)
Chicken
Beef
Egg
Dairy products
Other:

Skip to question 11

Fish/Shrimp consumption (PRE-COVID)

11. 10. How often did your family consume other saltwater finfish (For example, * Vhetki, Parshe etc) PRE-COVID?

Mark only one oval.

Everyday

- On average 2-3 times a week
- Once every week
- Once a month
- Never

12. 11. How often did your family consume other freshwater finfish (For example, Pangasius, Tilapia, Carps etc) PRE-COVID?

*

Mark only one oval.

Everyday
On average 2-3 times a week
Once every week
Once a month

Never

Mark only one oval.

13. 12. How often did your family consume Bagda (Shrimp) PRE-COVID? *

\bigcirc	Everyday
\bigcirc	On average 2-3 times a week
\bigcirc	Once every week
\bigcirc	Once a month
\bigcirc	Never

14. 13. How often did your family consume Golda (Prawn) PRE-COVID? *

- Everyday
- On average 2-3 times a week
- Once every week
- Once a month
- Never

15. 14. Amount of other saltwater finfish (For example - Vhetki, Parshe etc.) usually you bought (in total) PRE-COVID (kg/week)

Mark only one oval.

< 2 kg/week
2-5 kg/week
5-7 kg/week
7-10 kg/week
> 10 kg/week

16. 15. Amount of other freshwater finfish (For example - Pangasius, Tilapia, Carps etc.) usually you bought (in total) PRE-COVID (kg/week)

Mark only one oval.

< 2 kg/week
2-5 kg/week
5-7 kg/week
7-10 kg/week</pre>

- > 10 kg/week
- 17. 16. Amount of Bagda (Shrimp) usually you bought (in total) PRE-COVID (kg/week)



- 0.5-1 kg/week
- 1-2 kg/week
- 2-3 kg/week
- > 3 kg/week

17. Amount of Golda (Prawn) usually you bought (in total) PRE-COVID (kg/week)
 Mark only one oval.

< 0.5 kg/week
 0.5-1 kg/week
 1-2 kg/week
 2-3 kg/week
 > 3 kg/week

Fish/Shrimp consumption (POST-COVID)

19. 18. How often does your family consume other saltwater finfish (For example - * Vhetki, Parshe) POST-COVID?

\bigcirc	Everyday
\bigcirc	On average 2-3 times a week
\bigcirc	Once every week
\bigcirc	Once a month
\bigcirc	Never

20. 19. If your consumption of fish has changed because of COVID-19 what were your * reasons for changing? (please tick all that apply)

Check all that apply.

Consumption has not changed
Fish was too expensive to buy
Fish was cheaper to buy
Fish was less available
Fish was more available
Unable to prepare the fish due to lack of help
More help was available to prepare the fish
I think eating fish is more nutritious to help fight against COVID19
I think eating fish boosts the immune system to help fight against COVID19
Other (please use the comment box in the next question to explain this)

21. 20. If you choose "other" option in the previous question please explain it here

22. 21. How often does your family consume other freshwater finfish (For example - * Pangasius, Tilapia, Carps etc) POST-COVID?

Mark only one oval.

Everyday
 On average 2-3 times a week

- Once every week
- Once a month
- Never

23. 22. If your consumption of fish has changed because of COVID-19 what were your reasons for changing? (please tick all that apply)

*

Check	all	that	apply.
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Consumption has not changed	
Fish was too expensive to buy	
Fish was cheaper to buy	
Fish was less available	
Fish was more available	
Unable to prepare the fish due to lack of help	
More help was available to prepare the fish	
I think eating fish is more nutritious to help fight against COVID19	
I think eating fish boosts the immune system to help fight against COVID19	
Other (please use the comment box in the next question to explain this)	

24. 23. If you choose "other" option in the previous question please explain it here

25. 24. How often does your family consume Bagda (Shrimp) POST-COVID? * Mark only one oval.

\bigcirc	Everyday
\bigcirc	On average 2-3 times a week
\bigcirc	Once every week
\bigcirc	Once a month
\bigcirc	Never

26. 25. If your consumption of Bagda (Shrimp) has changed because of COVID-19 * what were your reasons for changing? (please tick all that apply)

Check all that apply.

Consumption has not changed
Bagda (Shrimp) was too expensive to buy
Bagda (Shrimp) was cheaper to buy
Bagda (Shrimp) was less available
Bagda (Shrimp) was more available
Unable to prepare the Bagda (Shrimp) due to lack of help
More help was available to prepare the Bagda (Shrimp)
I think eating Bagda (Shrimp) is more nutritious to help fight against COVID19
I think eating Bagda (Shrimp) boosts the immune system to help fight against COVID19
Other (please use the comment box in the next question to explain this)

27. 26. If you choose "other" option in the previous question please explain it here

28. 27. How often does your family consume Golda (Prawn) POST-COVID? *

Mark only one oval.

Everyday
 On average 2-3 times a week
 Once every week

- Once a month
- Never

29. 28. If your consumption of Golda (Prawn) has changed because of COVID-19 what were your reasons for changing? (please tick all that apply)

*

Check all that apply.

Consumption has not changed
Golda (Prawn) was too expensive to buy
Golda (Prawn) was cheaper to buy
Golda (Prawn) was less available
Golda (Prawn) was more available
Unable to prepare the Golda (Prawn) due to lack of help
More help was available to prepare the Golda (Prawn)
I think eating Golda (Prawn) is more nutritious to help fight against COVID19
I think eating Golda (Prawn) boosts the immune system to help fight against COVID19
Other (please use the comment box in the next question to explain this)

30. 29. If you choose "other" option in the previous question please explain it here

31. 30. Amount of other saltwater finfish (For example -Vhetki, Parshe etc.) usually you bought (in total) POST-COVID

- < 2 kg/week</pre>
- 2-5 kg/week
- 5-7 kg/week
- 7-10 kg/week
- > 10 kg/week

32. 31. Have you changed the species of other saltwater finfish (For example - Vhetki, * Parshe etc.) that you bought due to COVID19 and if so why? (please tick all that apply)

Check all that apply.

I have not changed the species of fish I buy
I have changed the species because they are more available
I have changed the species because they are cheaper
I have changed the species because they are more nutritious
I have changed the species because they are easier to prepare
I have changed the species because they are better for the immune system
Other (please use the comment box in the next question to explain this)

33. 32. If you choose "other" option in the previous question please explain it here

34. 33. Amount of other freshwater finfish (For example - Pangus, Tilapia, Carps etc.) usually you bought (in total) POST-COVID

- < 2 kg/week
 2-5 kg/week
 5-7 kg/week
 7-10 kg/week</pre>
- > 10 kg/week

35. 34. Have you changed the species of other saltwater finfish (For example -Pangus, Tilapia, Carps etc.) that you bought due to COVID19 and if so why? (please tick all that apply)

Check all that apply.

I have not changed the species of fish I buy

I have changed the species because they are more available

I have changed the species because they are cheaper

I have changed the species because they are more nutritious

I have changed the species because they are easier to prepare

I have changed the species because they are better for the immune system

Other (please use the comment box in the next question to explain this)

36. 35. If you choose "other" option in the previous question please explain it here

37. 36. Amount of Bagda (Shrimp) usually you bought (in total) POST-COVID

- 0.5-1 kg/week
- 1-2 kg/week
- 2-3 kg/week
- > 3 kg/week

38. 37. Have you changed the amount of Bagda (Shrimp) that you bought due to COVID19 and if so why? (please tick all that apply)

Check all that apply.

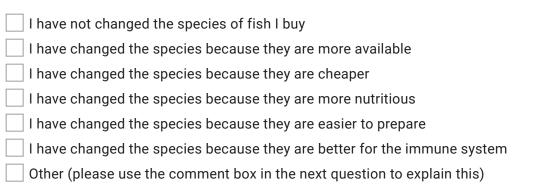
- I have not changed the species of fish I buy
 I have changed the species because they are more available
 I have changed the species because they are cheaper
 I have changed the species because they are more nutritious
 I have changed the species because they are easier to prepare
 I have changed the species because they are better for the immune system
 Other (please use the comment box in the next question to explain this)
- 39. 38. If you choose "other" option in the previous question please explain it here

40. 39. Amount of Golda (Prawn) usually you bought (in total) POST-COVID

- < 0.5 kg/week</pre>
- 0.5-1 kg/week
- 1-2 kg/week
- 2-3 kg/week
- > 3 kg/week

41. 40. Have you changed the amount of Golda (Prawn) that you bought due to COVID19 and if so why? (please tick all that apply)

Check all that apply.



42. 41. If you choose "other" option in the previous question please explain it here

43. 42. Please indicate how often you purchased the following shrimps or prawns before COVID?

*

Mark only one oval per row.

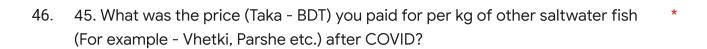
	Regularly (every week)	Occasionally (every month)	Rarely (special occasions)	Never
Other saltwater finfish (For example - Vhetki, Parshe etc.)				\bigcirc
Other freshwater finfish (For example - Pangus, Tilapia, Carps etc.)	\bigcirc			\bigcirc
Bagda (Shrimp)	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Golda (Prawn)	\bigcirc	\bigcirc		\bigcirc

44. 43. Please indicate how often you purchased the following shrimp/prawns at present?

Mark only one oval per row.

	Regularly (every week)	Occasionally (every month)	Rarely (special occasions)	Never
Other saltwater finfish (For example - Vhetki, Parshe etc.)				\bigcirc
Other freshwater finfish (For example - Pangus, Tilapia, Carps etc.)	\bigcirc			\bigcirc
Bagda (Shrimp)	\bigcirc		\bigcirc	\bigcirc
Golda (Prawn)				\bigcirc

45. 44. What was the price (Taka - BDT) you paid for per kg of other saltwater fish * (For example - Vhetki, Parshe etc.) before COVID?



47. 46. What was the price (Taka - BDT) you paid for per kg of other freshwater fish * (For example - Pangas, Tilapia, Carps etc.) before COVID?

48. 47. What was the price (Taka - BDT) you paid for per kg of other freshwater fish * (For example - Pangas, Tilapia, Carps etc.) after COVID?

- 49. 48. What was the price (Taka BDT) you paid for per kg of Bagda (Shrimp) before * COVID?
- 50. 49. What was the price (Taka BDT) you paid for per kg of Bagda (Shrimp) after * COVID?
- 51. 50. What was the price (Taka BDT) you paid for per kg of Golda (Prawn) before * COVID?
- 52. 51. What was the price (Taka BDT) you paid for per kg of Golda (Prawn) after * COVID?

Visit the fish market

53. 52. How often did you visit the fish market before COVID? *

Mark only one oval.

- I rarely visited the fish market
- Everyday
- 🔵 3 to 5 days per week
- 2 to 3 days per week
- 1 day every week
- Less than 1 day per week on average
- 54. 53. How often did you visit the fish market after COVID? *

Mark only one oval.

- I rarely visited the fish market
- Everyday
- 🔵 3 to 5 days per week
- 🔵 2 to 3 days per week
- 1 day every week
- Less than 1 day per week on average
- 55. 54. If your pattern of visiting the fish market has changed please give the reasons.

- My visits have not changed
- I visit the fish market less often due to financial difficulty
- I visit the fish market more often due to financial difficulty
- I visit the fish market less often due to fear of catching COVID
- I visit the fish market more often to buy food for more vulnerable people as well
- Other:

56. 55. If you choose "other" option in the previous question please explain it here



Open comment box

57. 56. Do you have any other comments about your consumption of fish before and after Covid19?

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