

# Changes in consumer preferences for seafood products due to the COVID-19 pandemic: Summary of Montgomery County, MD results

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### Summary

The health crisis created by the COVID-19 pandemic led to the shutdown of restaurants and nonessential businesses throughout the United States. With the majority (68%) of seafood products purchased at food service establishments, this has resulted in an unparalleled shock to U.S. fisheries and aquaculture producers (NOAA 2018). Furthermore, the USDA Census of Aquaculture reported that for shellfish farms only 4% of their first point of sales were direct to consumers (USDA 2019). As farms and businesses attempt to respond to the loss of revenue from traditional marketing channels and establish direct to consumer channels, a key question concerned the extent of changes in consumer demand and preferences for seafood products. Thus, the goal of this project was to gather market information on changes in how, when, and where consumers purchase seafood in response to the COVID-19 pandemic.

This report summarizes the results of information specific to responses related to seafood purchases at households within Montgomery County, Maryland. Survey respondents were asked about seafood purchases prior to (2019) and during (2020) the COVID-19 pandemic.

There were 227 usable responses from participants living within Montgomery County, Maryland.

Respondent location was self-reported via zip code. The greatest percentages of respondents were high school graduates (36%), had completed an advanced college degree (graduate degree) (26%), or had completed a 4-year college degree (24%) (Figure 1). The majority of respondents (88%) self-reported as "White", with the remaining respondents (12%) selfreporting as "Hispanic". Male and female genders accounted for 61.7% and 37.9% of respondents, respectively. Thirty-two percent of respondents reported being 66 years old or older. This was followed by 22% being 35 years old or younger, 19% being 36 to 45 years old, 18% being 56 to 65 years old, and 9% being 46 to 55 years old. Figure 2 illustrates the proportion of respondents by income prior to and during the COVID-19 pandemic. In general, the greatest percentages of respondents had household incomes of \$100,000 to \$149,999 (27% in 2019, 29% in 2020), or \$50,000 to \$99,999 (24% in 2019, 22% in 2020).

When asked about frequency of seafood consumption during the pandemic (2020), the largest percentage of respondents (52%) indicated they ate about the same as they did in 2019 (Figure 3). This was followed by 36% who indicated they ate seafood less frequently in 2020, and 13% who indicated they ate seafood more frequently in 2020.

Between 2019 and 2020, consumers reported increased consumption of seafood products prepared

at home, takeout from restaurants, and delivered to home as a prepared meal (Table 1). Conversely, consumers reported decreased consumption of seafood products at restaurants. The percentage of respondents who did not consume seafood products increased between 2019 and 2020.

Regarding method of preparation, respondents indicated they preferred grilled finfish and crustacean products when purchasing as takeout from a restaurant or delivered to home as a prepared meal in 2019 (Figure 4). Respondents indicated they preferred fried mollusk products and raw seaweed products when purchasing as takeout or delivery in 2019. These preferences for mollusk and seaweed products remained the same in 2020, however, equal proportions of respondents indicated they preferred grilled and baked finfish products when purchasing as takeout or delivery, and the majority of respondents indicated they preferred fried crustacean products when purchasing as takeout or delivery in 2020 (Figure 5).

The preferred method of preparation changed when asked about seafood products purchased at a restaurant (Figures 6 & 7). Grilled finfish was still preferred in 2019 and 2020, however, respondents indicated they preferred raw mollusks when purchasing at a restaurant in 2019 and 2020. Participants indicated they preferred fried crustacean products at a restaurant in 2019 but preferred broiled crustaceans in 2020. Lastly, respondents indicated they preferred broiled seaweed products when purchasing at a restaurant in 2019 and 2020.

Survey participants were asked about the amount spent per shopping trip on seafood products for home preparation in 2019 and 2020 (Figure 8). The majority of respondents in both 2019 (72%) and 2020 (78%) indicated they purchased less than \$30 worth of seafood products per shopping trip. Similarly, survey participants were asked about the quantity (in pounds) purchased per shopping trip or home preparation (Figure 9). The majority of participants in both 2019 and 2020 (93% both years) indicated they purchased 10 pounds or less of seafood products per shopping trip.

In 2019, prior to the COVID-19 pandemic, 48% of respondents indicated they ate more seafood during a particular season of the year (Figure 10). Forty percent indicated summer was the preferred season.

In 2020, during the pandemic, 37% indicated they ate more seafood during a particular season, indicating a shift away from seasonal consumption.

Regarding advertisement methods, word of mouth and seafood counter clerk or waitstaff were found to be the most important methods of advertisement, as the largest percentage of participants (26% for word of mouth, 30% for seafood counter clerk or waitstaff) indicated this to be a very important method (Table 2). Greater percentages of respondents found all other methods (Mailed flyer, E-mail, text message, social media posting, etc.) to be not important at all.

Respondents were asked to identify establishments from which they purchased seafood products for home preparation in 2019 and 2020 (Figures 11 & 12). Fifty-nine percent of respondents in 2019 and 2020 indicated they purchased more than 50% of seafood products for home preparation at supermarkets or grocery stores. This was followed by 27% in 2019 and 22% in 2020 that purchased 11% to 50% of seafood products for home preparation at supermarkets or grocery stores. Fourteen percent of respondents in 2019 and 20% in 2020 indicated they purchased 10% or less of seafood products for home preparation at supermarkets or grocery stores. Purchases from all other establishments were uncommon in 2019 and 2020, with 76% or more of respondents in 2019 and 82% or more of respondents in 2020 indicating 10% or less of seafood purchases being made at all other establishments (seafood market, farmer's market, food hub, online seafood distributor or producer, etc.). Overall, supermarkets or grocery stores were the most common establishment from which to purchase of seafood products for home consumption in 2019 and 2020. Regarding preferred establishments from which purchase seafood products for home preparation, minimal change was observed between 2019 and 2020 (pre-pandemic vs. pandemic).

### References

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## Appendix

Changes in consumer preferences for seafood products due to the COVID-19 pandemic:

## Summary of Montgomery County, MD results

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Figure 1. Level of education completed by survey respondents
Figure 2. Household income of survey respondents in 2019 and 2020
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Figure 12. Percent of seafood products purchased at varying establishments in 2020



Figure 1. Level of education completed by survey respondents.







Figure 3. Frequency of seafood consumption of seafood products in 2020, with respect to seafood consumption in 2019.

Methods of consumption	2019	2020
Prepared at home	39%	42%
Takeout from a restaurant	9%	13%
Delivered to home as a prepared meal	5%	8%
At a restaurant	23%	8%
Other	1%	1%
Did not consume	22%	27%





Figure 4. Preferred method of preparation of seafood products purchased as takeout from a restaurant or delivered to home as a prepared meal reported in 2019.



Figure 5. Preferred method of preparation of seafood products purchased as takeout from a restaurant or delivered to home as a prepared meal reported in 2020.



Figure 6. Preferred method of preparation of seafood products purchased at a restaurant reported in 2019.



Figure 7. Preferred method of preparation of seafood products purchased at a restaurant reported in 2020.







Figure 9. Quantities of seafood products purchased per shopping trip for home preparation reported in 2019 and 2020.



Figure 10. Percentage of respondents who consumed more seafood during a particular season in 2019, prior to the pandemic, and 2020, during the pandemic.

Table 2. Ranked importance of options to receive advertising information about seafood, according to survey responses in 2020 (\* indicates greatest percentage).

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	1	2	3	4	5
	(not	(slightly	(moderately	(very	(extremely
	important at	important)	important)	important)	important)
	all)				
Mailed flyer	42%*	10%	16%	10%	22%
Iviancu nyci	4270	1070	1070	1070	2270
<u>г 1</u>	2(0/*	150/	1.00/	120/	1.00/
E-mail	36%*	15%	19%	12%	18%
		100/	1.50 (	/	100/
Text message	47%*	13%	15%	7%	19%
Facebook	50%*	7%	11%	14%	19%
posting					
Twitter	56%*	5%	10%	8%	21%
posting					
In-store	26%*	15%	22%	16%	22%
cards, table					
tops					
In-store	35%*	10%	16%	16%	23%
notifications,	5570	1070	1070	1070	2370
text					
QR code	46%*	9%	12%	11%	21%
QICCOUC	4070	970	12/0	11/0	2170
Word of	220/	110/	220/	100/	2(0/*
	22%	11%	22%	19%	26%*
mouth					
	100/	00/	210/	2.407	200/#
Seafood	18%	8%	21%	24%	30%*
counter clerk					
or waitstaff					
Other	51%	55%*	13%	8%	23%







