Alternative Shellfish Species Research Study

Prepared for:



Presented By:

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With Support From:

Cape Cod Cooperative Extension Woods Hole Sea Grant SouthEastern Massachusetts Aquaculture Center

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Executive Summary

- Seventy-seven percent of shellfish wholesalers said that none of their sales come from grocery stores, 8% said 1%-25%, 7% said 26%-50%, 1% said 51%-75%, no one said 76% or more and 8% had no response.
- Forty-one percent of shellfish wholesalers said none of their sales come from restaurants, 20% said 1%-25%, 18% said 26%-50%, 6% said 51%-75%, 6% said 76%-99%, 3% said all of their sales come from restaurants and 8% had no response.
- Twenty percent of shellfish wholesalers said none of their sales come from other wholesalers, 15% said 1%-25%, 17% said 26%-50%, 11% said 51%-75%, 9% said 76%-99%, 21% said all of their sales come from other wholesalers and 8% had no response.
- Eighty-two percent of shellfish wholesalers said none of their sales come from specialty seafood stores, 9% said 1%-25%, 0% said 26%-50%, 0% said 51%-75%, 1% said 76%-99%, no one said all of their sales come from specialty seafood stores and 8% had no response.
- Seventy-one percent of shellfish wholesalers said none of their sales come from other retail stores, 4% said 1%-25%, 6% said 26%-50%, 1% said 51%-75%, 5% said 76%-99%, 8% said all of their sales come from other retail stores and 7% had no response.
- Thirty-five percent of shellfish wholesalers said none of their inventory is driven by customer requests, 15% said 1%-25%, 10% said 26%-50%, 2% said 51%-75%, 1% said 76%-99%, 23% said their entire inventory is driven by customer requests and 14% had no response.
- Nineteen percent of shellfish wholesalers said none of their inventory is driven by consistent availability, 3% said 1%-25%, 7% said 26%-50%, 7% said 51%-75%, 13% said 76%-99%, 38% said their entire inventory is driven by consistent availability and 14% had no response.
- Thirty-five percent of shellfish wholesalers said they had requests for shellfish they could not fulfill due to a lack of supply and 65% said they have not.
- Eighty-four percent of shellfish wholesalers said they have never sold Blood Arks or Blood Clams in the past, 9% said they have sold them in the past and 7% said they are currently selling Blood Arks or Blood Clams.

- Sixty-two percent of shellfish wholesalers said that they have never sold Razor Clams, 21% said they have sold them in the past and 17% said they are currently selling Razor Clams.
- Eighty-three percent of shellfish wholesalers said they have never sold Juvenile Surf Clams (Butter Clams), 11% said they have sold them in the past and 6% said they are currently selling Juvenile Surf Clams (Butter Clams).
- Seventy-seven percent of shellfish wholesalers said they have never sold 'Brown' Blue Mussels, 8% said they have sold them in the past and 15% said they are currently selling 'Brown' Blue Mussels.
- Ninety-three percent of shellfish wholesalers said they have never sold Sweetmeats or Slipper Shells, 7% said they have sold them in the past and 1% said they are currently selling Sweetmeats or Slipper Shells.
- Seventy-eight percent of shellfish wholesalers said they have never sold Seaweeds, 9% said they have sold them in the past and 13% said they are currently selling Seaweeds.
- Fifteen percent of shellfish wholesalers said they would be interested in selling Blood Arks or Blood Clams if they were grown locally and reliable in supply, 17% said they are somewhat interested and 68% said they are not interested.
- Twenty-six percent of shellfish wholesalers said they would be interested in selling Razor Clams if they were grown locally and reliable in supply, 22% said they are somewhat interested and 53% said they are not interested.
- Seventeen percent of shellfish wholesalers said they would be interested in selling Juvenile Surf Clams if they were grown locally and reliable in supply, 26% said they are somewhat interested and 57% said they are not interested.
- Twenty-one percent of shellfish wholesalers said they would be interested in selling 'Brown' Blue Mussels if they were grown locally and reliable in supply, 23% said they are somewhat interested and 57% said they are not interested.
- Fourteen percent of shellfish wholesalers said they would be interested in selling Sweetmeats or Slipper Shells if they were grown locally and reliable in supply, 23% said they are somewhat interested and 63% said they are not interested.
- Twenty percent of shellfish wholesalers said they would be interested in selling Seaweeds if they were grown locally and reliable in supply, 14% said they are somewhat interested and 66% said they are not interested.

- Fifteen percent of shellfish wholesalers think their customers would be very interested in purchasing Blood Arks or Blood Clams, 22% think they would be somewhat interested and 63% think they would not be interested.
- Thirty-two percent of shellfish wholesalers think their customers would be very interested in purchasing Razor Clams, 20% think they would be somewhat interested and 48% think they would not be interested.
- Seventeen percent of shellfish wholesalers think their customers would be very interested in purchasing Juvenile Surf Clams, 30% think they would be somewhat interested and 53% think they would not be interested.
- Twenty-two percent of shellfish wholesalers think their customers would be very interested in purchasing 'Brown' Blue Mussels, 26% think they would be somewhat interested and 53% think they would not be interested.
- Fifteen percent of shellfish wholesalers think their customers would be very interested in purchasing Sweetmeats or Slipper Shells, 26% think they would be somewhat interested and 59% think they would not be interested.
- Twenty-four percent of shellfish wholesalers think their customers would be very interested in purchasing Seaweeds, 20% think they would be somewhat interested and 57% think they would not be interested.
- Fifty percent of shellfish wholesalers said that if these alternative species were in a readily available supply they would actively market them to build demand, 47% said they would not and 3% had no response.
- Forty-seven percent of shellfish wholesalers said they would need more customer demand to have interest in selling alternative species, 43% said they have no interest in selling these species, 40% said they need a more reliable supply, 32% said they need more market demand, 26% said they need better price margin and 5% said they would need something else.

Research Objective

RESEARCH OBJECTIVE:

To research the demand for alternative species of shellfish among wholesalers throughout Massachusetts.

This research attempts to provide insights into the following:

- ✤ Are wholesalers aware of the 6 proposed species?
- Would wholesalers be interested in selling or have they sold these species with success?
- ✤ What is the perceived demand for alternative species?
- ✤ Is demand driven by customer request or consistent availability?

Methodology

| RESEARCH DESIGN | Survey |
|------------------------------|---|
| RESEARCH METHOD | Telephone Interviews |
| SAMPLING DESIGN | Probability |
| SAMPLING METHOD | Systematic random sample through wholesaler list on www.mass.gov |
| SAMPLE POPULATION | Number of shellfish wholesalers in Massachusetts (N=217) |
| DATA COLLECTION PERIOD | October 2014 |
| SAMPLE SIZE | After adjusting for wholesalers who do not sell shellfish, closed for the season or out of business, the potential wholesalers for this study was 108. Survey results are based on 106 seafood wholesalers. |

Alternative Shellfish Species Survey Conducted by the University of Massachusetts Dartmouth Charlton College of Business Center for Marketing Research

Hello, my name is______. I am a student at the University of MA Dartmouth doing a survey on alternative shellfish species to help assess market potential if they were to be grown commercially here in MA. I would appreciate your input so that we might be able to provide SEMAC (Southeastern MA Aquaculture Center) with important information to help the industry.

Do you sell shellfish? Yes____ No___ (*If no, discontinue survey*)

1. What percent of your shellfish sales come from each of the following?

| Grocery Stores_ | % |
|------------------|------------------------|
| Restaurants | _% |
| Wholesalers | _ % |
| Specialty Seafoo | od Stores% |
| Other % | Please Specify: |

2. What percent of your inventory is driven by customer requests and/or consistent availability?

Customer Requests____% Consistent Availability____%

3. In order of preference, what shellfish are most requested by your customers?

| 1) | 3) | 5) |
|----|----|----|
| 2) | 4) | 6) |

- **4.** Do you have requests for shellfish you could not fulfill due to a lack of supply? Yes _____ No ____ (*If no, skip to question 6*)
- 5. What shellfish do you have the most difficulty supplying?

| | Have Never Sold | Sold in the Past | Why are you currently not selling? | Curren tly Selling | If you are currently selling, what is the average price you paid this past season? |
|---|-----------------------|------------------------|--|--------------------------|---|
| Blood Arks or Blood Clams | | | | | <pre>\$ per piece</pre> |
| Razor Clams | | | | | \$ per piece |
| Juvenile Surf Clams – "Butter Clams" (Smaller than size currently available) | | | | | <pre>\$ per piece</pre> |
| 'Brown' Blue Mussels – Specialty color farmed product | | | | | <pre>\$ per piece</pre> |
| Sweetmeats or Slipper Shells | | | | | <pre>\$ per piece</pre> |
| Seaweeds | | | | | \$ per lb. |

6. Do you currently, or have you in the past, sold any of the following alternative species?

7. How interested would you be in selling these alternative species if they were grown locally and reliable in supply?

| | Very | Somewhat | Not |
|------------------------------|------------|------------|------------|
| | Interested | Interested | Interested |
| Blood Arks or Blood Clams | | | |
| Razor Clams | | | |
| Juvenile Surf Clams | | | |
| 'Brown' Blue Mussels | | | |
| Sweetmeats or Slipper Shells | | | |
| Seaweeds | | | |

8. How interested do you think your customers would be in purchasing these alternative species if they were available?

| | Very | Somewhat | Not |
|------------------------------|------------|------------|------------|
| | Interested | Interested | Interested |
| Blood Arks or Blood Clams | | | |
| Razor Clams | | | |
| Juvenile Surf Clams | | | |
| 'Brown' Blue Mussels | | | |
| Sweetmeats or Slipper Shells | | | |
| Seaweeds | | | |

9. If these alternative species were in a readily available supply would you actively market them to build demand?

Yes____ No____

- 10. If you have sold any of these alternative species in the past, was it a specialty or ethnic market? If so, please describe the market.
- **11.** If you are not currently selling any of these species, what would be needed for you to have an interest in selling them?

| (Check all that apply) |
|--------------------------------------|
| More Market Information |
| More Reliable Supply |
| Better Price Margin |
| Increased Customer Demand |
| No Interest in Selling these Species |
| Other Please Specify: |

12. Is there anything you could suggest to help SEMAC build a demand for these species?

TO BE FILLED OUT BY STUDENT FROM WHOLESALER LIST

| Wholesaler: | | |
|-----------------|------|------|
| Street Address: | | |
| City/Town: | | |
| State: | | |
| Zip Code: | | |
| Phone Number: | | |

Significance Test

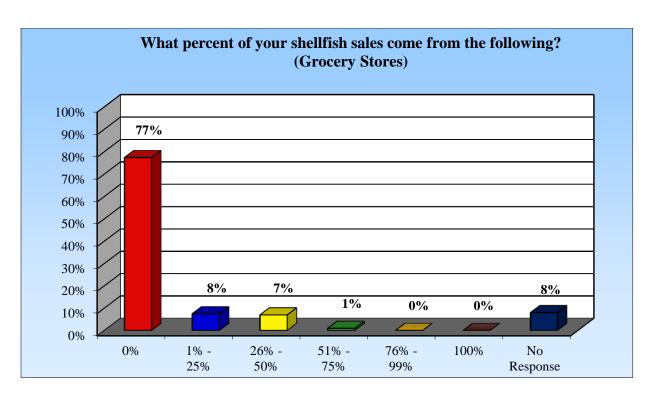
| Test Statistics | | | | | | |
|-----------------|----------------------|----------------------|---------------------|--|--|--|
| | What percent of | Do you | How interested | | | |
| | your shellfish | currently, or | would you be in | | | |
| | sales come from | have you in the | selling these | | | |
| | each of the | past, sold any of | alternative | | | |
| | following? | the following | species if they | | | |
| | (Grocery | alternative | were grown | | | |
| | Stores) | species? (Blood | locally and | | | |
| | | Arks or Blood | reliable in | | | |
| | | Clams) | supply? | | | |
| | | | (Sweetmeats or | | | |
| | | | Slipper Shells) | | | |
| Chi-Square | 219.566 ^a | 122.396 ^b | 43.717 ^b | | | |
| df | 4 | 2 | 2 | | | |
| Asymp. Sig. | .000 | .000 | .000 | | | |

A Chi-Square test was performed on this data. The data in this study test significant at .000, which indicates the findings are statistically valid.

Question 1a: What percent of your shellfish sales come from the following? (Grocery Stores)

| | (Grocery Stores) | | | | | | |
|-------|------------------|-----------|---------|---------------|-----------------------|--|--|
| | | Frequency | Percent | Valid Percent | Cumulative Percent | | |
| | 0% | 82 | 77.4 | 77.4 | 77.4 | | |
| | 1% - 25% | 8 | 7.5 | 7.5 | 84.9 | | |
| Valia | 26% - 50% | 7 | 6.6 | 6.6 | 91.5 | | |
| Valid | 51% - 75% | 1 | .9 | .9 | 92.5 | | |
| | No Response | 8 | 7.5 | 7.5 | 100.0 | | |
| | Total | 106 | 100.0 | 100.0 | | | |

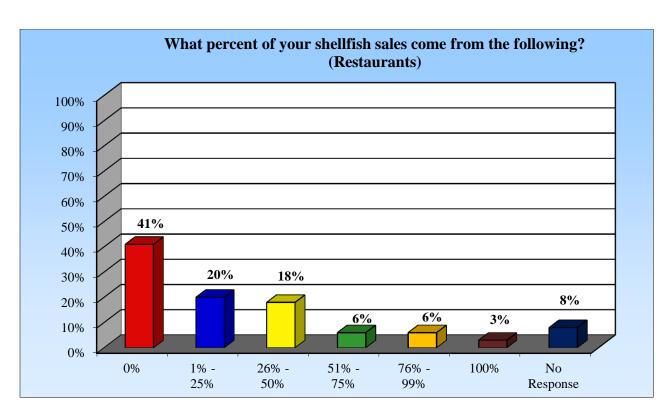
What percent of your shellfish sales come from the following? (Grocery Stores)



Seventy-seven percent of shellfish wholesalers said that none of their sales come from grocery stores, 8% said 1%-25%, 7% said 26%-50%, 1% said 51%-75%, no one said 76% or more and 8% had no response.

| | (Restaurants) | | | | | | |
|-------------|---------------|-----------|---------|---------------|--------------------|--|--|
| | | Frequency | Percent | Valid Percent | Cumulative Percent | | |
| | 0% | 43 | 40.6 | 40.6 | 40.6 | | |
| | 1% - 25% | 21 | 19.8 | 19.8 | 60.4 | | |
| | 26% - 50% | 19 | 17.9 | 17.9 | 78.3 | | |
| . / - 1: -1 | 51% - 75% | 6 | 5.7 | 5.7 | 84.0 | | |
| Valid | 76% - 99% | 6 | 5.7 | 5.7 | 89.6 | | |
| | 100% | 3 | 2.8 | 2.8 | 92.5 | | |
| | No Response | 8 | 7.5 | 7.5 | 100.0 | | |
| | Total | 106 | 100.0 | 100.0 | | | |

What percent of your shellfish sales come from the following?

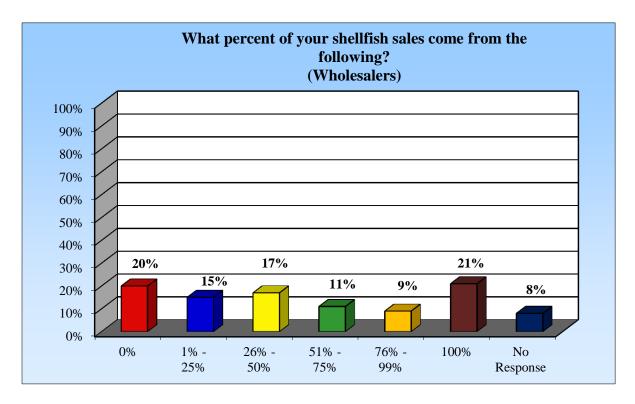


Forty-one percent of shellfish wholesalers said none of their sales come from restaurants, 20% said 1%-25%, 18% said 26%-50%, 6% said 51%-75%, 6% said 76%-99%, 3% said all of their sales come from restaurants and 8% had no response.

Question 1c: What percent of your shellfish sales come from the following? (Wholesalers)

| | (Wholesalers) | | | | | |
|-----------|---------------|-----------|---------|---------------|--------------------|--|
| - | | Frequency | Percent | Valid Percent | Cumulative Percent | |
| | 0% | 21 | 19.8 | 19.8 | 19.8 | |
| | 1% - 25% | 16 | 15.1 | 15.1 | 34.9 | |
| 51% - 75% | 26% - 50% | 18 | 17.0 | 17.0 | 51.9 | |
| | 51% - 75% | 12 | 11.3 | 11.3 | 63.2 | |
| Valid | 76% - 99% | 9 | 8.5 | 8.5 | 71.7 | |
| | 100% | 22 | 20.8 | 20.8 | 92.5 | |
| | No Response | 8 | 7.5 | 7.5 | 100.0 | |
| | Total | 106 | 100.0 | 100.0 | | |

What percent of your shellfish sales come from the following? (Wholesalers)

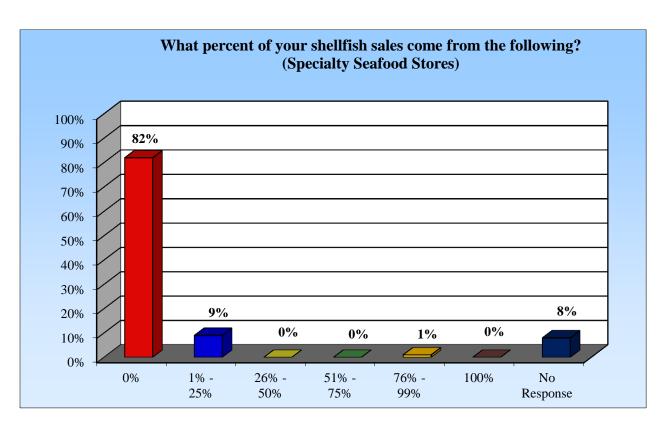


Twenty percent of shellfish wholesalers said none of their sales come from other wholesalers, 15% said 1%-25%, 17% said 26%-50%, 11% said 51%-75%, 9% said 76%-99%, 21% said all of their sales come from other wholesalers and 8% had no response.

Question 1d: What percent of your shellfish sales come from the following? (Specialty Seafood Stores)

| (Specialty Seafood Stores) | | | | | | |
|----------------------------|-------------|-----------|---------|---------------|--------------------|--|
| - | | Frequency | Percent | Valid Percent | Cumulative Percent | |
| | 0% | 87 | 82.1 | 82.1 | 82.1 | |
| | 1% - 25% | 10 | 9.4 | 9.4 | 91.5 | |
| Valid | 76% - 99% | 1 | .9 | .9 | 92.5 | |
| | No Response | 8 | 7.5 | 7.5 | 100.0 | |
| | Total | 106 | 100.0 | 100.0 | | |

What percent of your shellfish sales come from the following? (Specialty Seafood Stores)

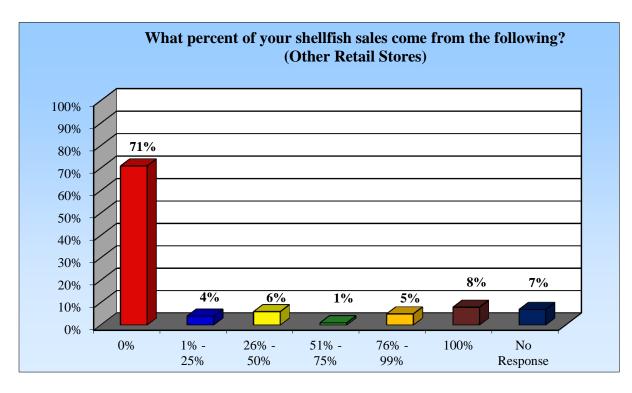


Eighty-two percent of shellfish wholesalers said none of their sales come from specialty seafood stores, 9% said 1%-25%, 0% said 26%-50%, 0% said 51%-75%, 1% said 76%-99%, no one said all of their sales come from specialty seafood stores and 8% had no response.

Question 1e: What percent of your shellfish sales come from the following? (Other Retail Stores)

| | (Other Retail Stores) | | | | | | |
|-------|-----------------------|-----------|---------|---------------|--------------------|--|--|
| | | Frequency | Percent | Valid Percent | Cumulative Percent | | |
| | 0% | 75 | 70.8 | 70.8 | 70.8 | | |
| | 1% - 25% | 4 | 3.8 | 3.8 | 74.5 | | |
| | 26% - 50% | 6 | 5.7 | 5.7 | 80.2 | | |
| | 51% - 75% | 1 | .9 | .9 | 81.1 | | |
| Valid | 76% - 99% | 5 | 4.7 | 4.7 | 85.8 | | |
| | 100% | 8 | 7.5 | 7.5 | 93.4 | | |
| | No Response | 7 | 6.6 | 6.6 | 100.0 | | |
| | Total | 106 | 100.0 | 100.0 | | | |

What percent of your shellfish sales come from each of the following? (Other Retail Stores)



Seventy-one percent of shellfish wholesalers said none of their sales come from other retail stores, 4% said 1%-25%, 6% said 26%-50%, 1% said 51%-75%, 5% said 76%-99%, 8% said all of their sales come from other retail stores and 7% had no response.

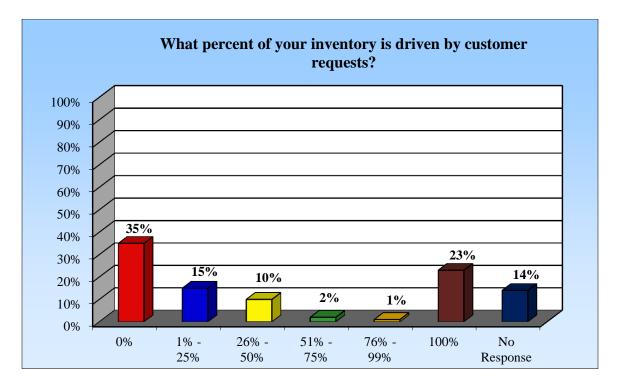
Response

- 2%
- 10%
- 25%
- 38%
- 100% (Directly from Fisherman)
- 100% (Pet Food)
- 80% (Directly from Fisherman)

Question 2a: What percent of your inventory is driven by customer requests?

| | | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|-------------|-----------|---------|---------------|--------------------|
| | 0% | 37 | 34.9 | 34.9 | 34.9 |
| | 1% - 25% | 16 | 15.1 | 15.1 | 50.0 |
| | 26% - 50% | 11 | 10.4 | 10.4 | 60.4 |
| | 51% - 75% | 2 | 1.9 | 1.9 | 62.3 |
| Valid | 76% - 99% | 1 | .9 | .9 | 63.2 |
| | 100% | 24 | 22.6 | 22.6 | 85.8 |
| | No Response | 15 | 14.2 | 14.2 | 100.0 |
| | Total | 106 | 100.0 | 100.0 | |

What percent of your inventory is driven by customer requests and/or consistent availability? (Customer Request)

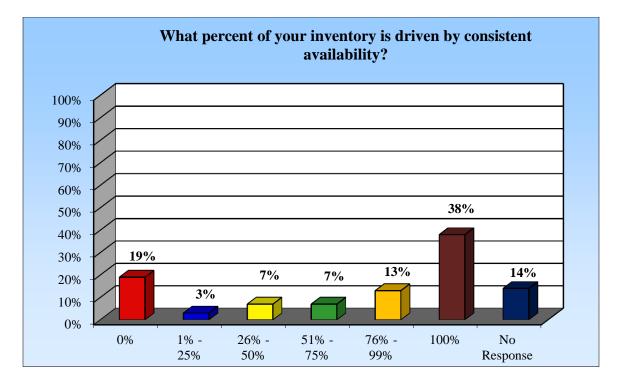


Thirty-five percent of shellfish wholesalers said none of their inventory is driven by customer requests, 15% said 1%-25%, 10% said 26%-50%, 2% said 51%-75%, 1% said 76%-99%, 23% said their entire inventory is driven by customer requests and 14% had no response.

Question 2b: What percent of your inventory is driven by consistent availability?

| | | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|-------------|-----------|---------|---------------|--------------------|
| | 0% | 20 | 18.9 | 18.9 | 18.9 |
| | 1% - 25% | 3 | 2.8 | 2.8 | 21.7 |
| | 26% - 50% | 7 | 6.6 | 6.6 | 28.3 |
| | 51% - 75% | 7 | 6.6 | 6.6 | 34.9 |
| Valid | 76% - 99% | 14 | 13.2 | 13.2 | 48.1 |
| | 100% | 40 | 37.7 | 37.7 | 85.8 |
| | No Response | 15 | 14.2 | 14.2 | 100.0 |
| | Total | 106 | 100.0 | 100.0 | |

What percent of your inventory is driven by customer requests and/or consistent availability? (Consistent Availability)



Nineteen percent of shellfish wholesalers said none of their inventory is driven by consistent availability, 3% said 1%-25%, 7% said 26%-50%, 7% said 51%-75%, 13% said 76%-99%, 38% said their entire inventory is driven by consistent availability and 14% had no response.

| Question 3: In order of preference, what shellfish are most requested by your customers? (Shellfish #1) | | | |
|---|-----------|--|--|
| Response | Frequency | | |
| Oysters | (30) | | |
| Lobsters | (19) | | |
| Scallops | (12) | | |
| Steamers | (11) | | |
| Soft Shell Clams | (7) | | |
| Hard Shell Calms | (5) | | |
| Bay Scallops | (3) | | |
| Quahogs | (3) | | |
| Sea Scallops | (3) | | |
| Crabs | (2) | | |
| Little Necks | (2) | | |
| Mussels | (2) | | |
| Shrimp | (2) | | |
| North Atlantic Scallops | (1) | | |
| Red Crab | (1) | | |
| Small Clam | (1) | | |
| Surf Clams | (1) | | |
| Whelks | (1) | | |
| Total Responses | 106 | | |

| (Shellfish # | #2) |
|------------------|-----------|
| <u>Response</u> | Frequency |
| Oysters | (12) |
| Mussels | (7) |
| Lobster | (6) |
| Soft Shell Clams | (6) |
| Razor Clams | (5) |
| Clams | (4) |
| Crab | (4) |
| Scallops | (4) |
| Quahogs | (3) |
| Steamers | (3) |
| Bay Scallops | (2) |
| Hard Shell Clams | (2) |
| Little necks | (2) |
| Butter Clams | (1) |
| Chilean Mussels | (1) |
| Rock Crab | (1) |
| Sea Scallops | (1) |
| Surf Clams | (1) |
| Total Responses | 65 |

| Question 3c: In order of preference, what shellfish are most requested by your customers? (Shellfish #3) | | |
|--|-----------|--|
| | | |
| <u>Response</u> | Frequency | |
| Mussels | (7) | |
| Oysters | (7) | |
| Scallops | (6) | |
| Little Necks | (5) | |
| Steamers | (4) | |
| Crab | (2) | |
| Soft Shell Clams | (2) | |
| Bay Scallops | (1) | |
| Clams | (1) | |
| Conch | (1) | |
| Count Necks | (1) | |
| Hard Shell Clams | (1) | |
| Quahogs | (1) | |
| Razor Clams | (1) | |
| Surf Clams | (1) | |
| Total Responses | 41 | |

| Question 3d: In order of preference, what shellfish are most requested by your customers? |
|---|
| (Shellfish #4) |

| Response | Frequency |
|------------------|------------------|
| Hard Shell Clams | (2) |
| Mussels | (2) |
| Quahogs | (2) |
| Cherrystones | (1) |
| Clams | (1) |
| Conch | (1) |
| Crab | (1) |
| Little Necks | (1) |
| Lobsters | (1) |
| Oysters | (1) |
| Shrimp | (1) |
| Soft Shell Clams | (1) |
| Whelks | (1) |
| Total Responses | 16 |

| Question 3e: In order of preference, what shellfish are most requested by your customers? |
|---|
| (Shellfish #5) |

| <u>Response</u> | Frequency |
|--------------------|-----------|
| Mussels | (2) |
| Oysters | (2) |
| Clams | (1) |
| Crab | (1) |
| Steamers | (1) |
| West Coast Species | (1) |
| | |
| Total Responses | 8 |

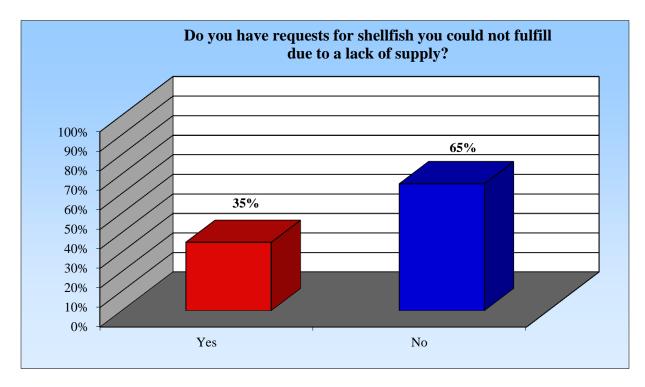
Total Responses

| Question 3f: In order of preference, what shellfish are most requested by your customers? | |
|---|--|
| (Shellfish #6) | |

| Response | Frequency |
|-----------------|-----------|
| Lobster | (1) |
| Mussels | (1) |
| Quahogs | (1) |
| Scallops | (1) |
| Shrimp | (1) |
| Urchin | (1) |
| | |
| Total Responses | 6 |

| | | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|-------|-----------|---------|---------------|--------------------|
| | Yes | 37 | 34.9 | 34.9 | 34.9 |
| Valid | No | 69 | 65.1 | 65.1 | 100.0 |
| | Total | 106 | 100.0 | 100.0 | |

Do you have requests for shellfish you could not fulfill due to lack of supply?



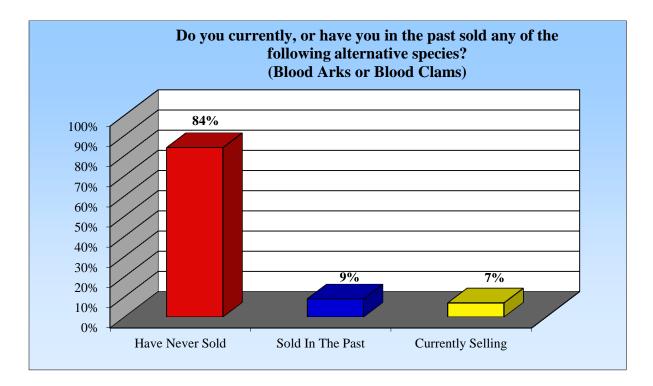
Thirty-five percent of shellfish wholesalers said they had requests for shellfish they could not fulfill due to a lack of supply and 65% said they have not.

| Response | Frequency |
|-----------------------|------------------|
| Razor Clams | (8) |
| Steamers | (6) |
| Oysters | (4) |
| Scallops | (4) |
| Quahogs | (3) |
| Soft Shell Clams | (2) |
| Hard Shell Clams | (2) |
| Mussels | (2) |
| Shrimp | (2) |
| Abalone | (1) |
| Barnacles | (1) |
| Blood Clams | (1) |
| Carcoals | (1) |
| Jackknife Clams | (1) |
| Limpets | (1) |
| Little Necks | (1) |
| Mahogany Clams | (1) |
| Seaweed | (1) |
| Stone Crab | (1) |
| Urchin | (1) |
| Whelk | (1) |
| Depends on the Season | (1) |
| All During Winter | (1) |
| All of Them | (1) |
| Total Responses | 48 |

Question 6a: Do you currently, or have you in the past, sold any of the following alternative species? (Blood Arks or Blood Clams)

| Do you currently, or have you in the past, sold any of the following alternative species? | |
|---|--|
| (Blood Arks or Blood Clams) | |

| | | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|-------------------|-----------|---------|---------------|--------------------|
| | Have Never Sold | 89 | 84.0 | 84.0 | 84.0 |
| ., | Sold in the Past | 10 | 9.4 | 9.4 | 93.4 |
| Valid | Currently Selling | 7 | 6.6 | 6.6 | 100.0 |
| | Total | 106 | 100.0 | 100.0 | |



Eighty-four percent of shellfish wholesalers said they have never sold Blood Arks or Blood Clams in the past, 9% said they have sold them in the past and 7% said they are currently selling Blood Arks or Blood Clams.

| Response | Frequency |
|--------------------------------|------------------|
| No Market | (4) |
| Availability | (3) |
| No Requests | (2) |
| No Demand | (2) |
| Available on Request | (1) |
| Bad Supply (Not Enough Demand) | (1) |
| Sporadic Supply (Low Demand) | (1) |
| Short Shelf Life | (1) |
| Smells Awful | (1) |
| Will Sell When Ready | (1) |
| Total Responses | 17 |

Question 6a: If you are currently selling Blood Arks or Blood Clams, what is the average price you paid this past season?

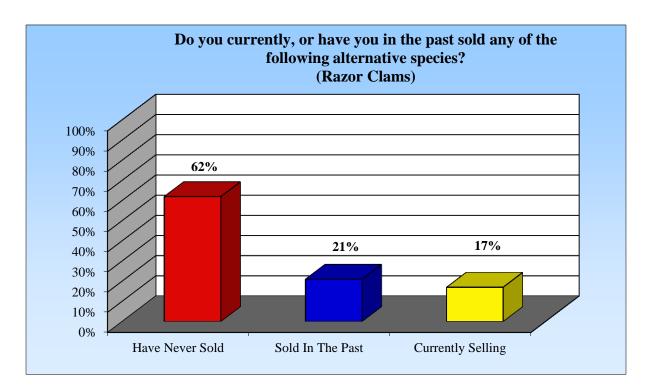
| Response | Frequency |
|-----------------|-----------|
| \$1.25/lb. | (1) |
| \$2.00/lb. | (1) |
| \$2.25/lb. | (1) |
| \$2.50/lb. | (1) |
| \$3.50/lb. | (1) |
| | |
| Total Responses | 5 |

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Question 6b: Do you currently, or have you in the past, sold any of the following alternative species? (Razor Clams)

Do you currently, or have you in the past, sold any of the following alternative species? (Razor Clams)

| | | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|-------------------|-----------|---------|---------------|--------------------|
| | Have Never Sold | 66 | 62.3 | 62.3 | 62.3 |
| ., | Sold in the Past | 22 | 20.8 | 20.8 | 83.0 |
| Valid | Currently Selling | 18 | 17.0 | 17.0 | 100.0 |
| | Total | 106 | 100.0 | 100.0 | |



Sixty-two percent of shellfish wholesalers said that they have never sold Razor Clams, 21% said they have sold them in the past and 17% said they are currently selling Razor Clams.

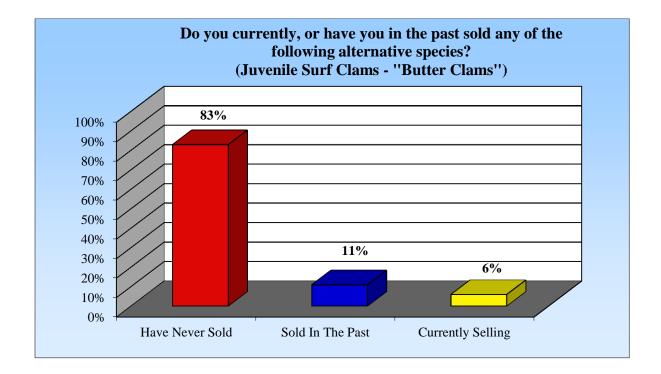
| Question 6b: Why are you currently not selli | ng Razor Clams? |
|--|-----------------|
| Response | Frequency |
| Lack of Supply | (5) |
| No Demand | (4) |
| No Market | (3) |
| Too Expensive | (1) |
| Trying to Grow | (1) |
| Specialty Item | (1) |
| Bad Supply/Not Enough Demand | (1) |
| Digger Died | (1) |
| Available per Request | (1) |
| | |
| Total Responses | 18 |

| Question 6b: If you are currently selling Razor Clams, what is the average price you paid this past season? | | |
|---|-----------|--|
| Response | Frequency | |
| \$5.00/lb. | (5) | |
| \$6.00/lb. | (2) | |
| \$1.50/lb. | (1) | |
| \$3.00-8.00/lb. | (1) | |
| \$4.00/lb. | (1) | |
| \$4.25/lb. | (1) | |
| \$5.50/lb. | (1) | |
| \$7.00/lb. | (1) | |
| | | |
| Total Responses | 13 | |

Question 6c: Do you currently, or have you in the past, sold any of the following alternative species? (Juvenile Surf Clams - "Butter Clams")

| Do you currently, or have you in the past, sold any of the following alternative species? |
|---|
| (Juvenile Surf Clams -"Butter Clams") |

| - | | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|-------------------|-----------|---------|---------------|--------------------|
| | Have Never Sold | 88 | 83.0 | 83.0 | 83.0 |
| ., | Sold in the Past | 12 | 11.3 | 11.3 | 94.3 |
| Valid | Currently Selling | 6 | 5.7 | 5.7 | 100.0 |
| | Total | 106 | 100.0 | 100.0 | |



Eighty-three percent of shellfish wholesalers said they have never sold Juvenile Surf Clams (Butter Clams), 11% said they have sold them in the past and 6% said they are currently selling Juvenile Surf Clams (Butter Clams).

| Question 6c: Why are you currently not selling Juvenile Surf Clams? | | | |
|---|-----------|--|--|
| Response | Frequency | | |
| No Market | (3) | | |
| Illegal | (2) | | |
| Hard to Grow/Low Demand | (1) | | |
| Legal Minimum for Size | (1) | | |
| No Customer Request | (1) | | |
| | | | |
| Total Responses | 8 | | |

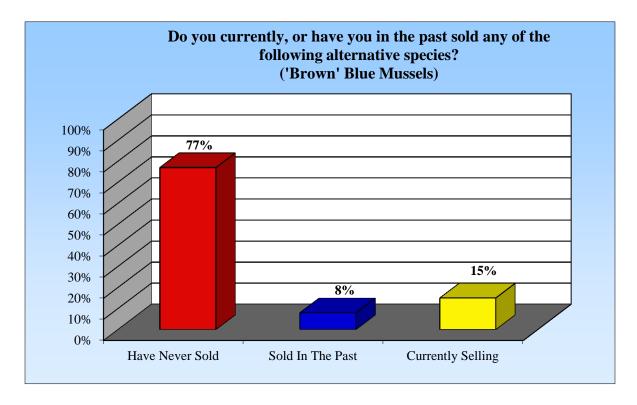
| Question 6c: If you are currently selling Juvenile Surf Clams (Butter Clams), what is the average |
|---|
| price you paid this past season? |

| Response | Frequency |
|-----------------|------------------|
| \$0.50/piece | (2) |
| \$0.18/piece | (1) |
| | |
| Total Responses | 3 |

Question 6d: Do you currently, or have you in the past, sold any of the following alternative species? ('Brown' Blue Mussels)

| Do you currently, or have you in the past, sold any of the following alternative species? |
|---|
| ('Brown' Blue Mussels) |

| | | | | / | |
|-------|-------------------|-----------|---------|---------------|--------------------|
| | | Frequency | Percent | Valid Percent | Cumulative Percent |
| | Have Never Sold | 82 | 77.4 | 77.4 | 77.4 |
| Valid | Sold in the Past | 8 | 7.5 | 7.5 | 84.9 |
| | Currently Selling | 16 | 15.1 | 15.1 | 100.0 |
| | Total | 106 | 100.0 | 100.0 | |



Seventy-seven percent of shellfish wholesalers said they have never sold 'Brown' Blue Mussels, 8% said they have sold them in the past and 15% said they are currently selling 'Brown' Blue Mussels.

| Question 6d: Why are you currently not selling 'Brown' Blue Mussels? | | |
|--|-----------|--|
| Response | Frequency | |
| No Market | (2) | |
| Low Margin, Don't Ship Well | (1) | |
| No Demand | (1) | |
| Not Much Margin | (1) | |
| | | |
| Total Responses | 5 | |

| Question 6d: If you are currently selling 'Brown' Blue Mussels, what is the average price you | |
|---|--|
| paid this past season? | |

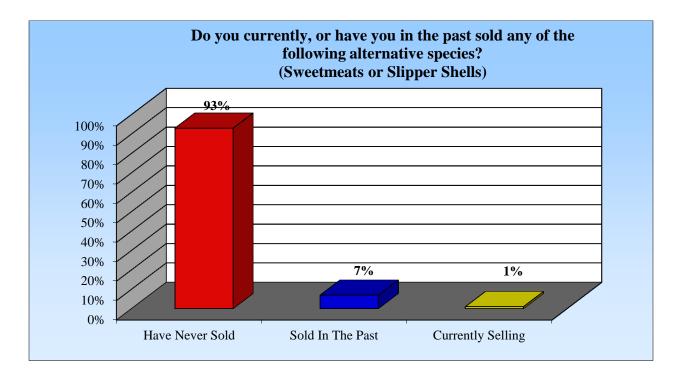
| Response | Frequency |
|---------------|-----------|
| <\$0.05/piece | (1) |
| \$0.26/lb. | (1) |
| \$0.75/lb. | (1) |
| \$1.00/lb. | (1) |
| \$1.10/lb. | (1) |
| \$1.20/lb. | (1) |
| \$1.70/lb. | (1) |
| \$1.80/lb. | (1) |
| \$4.00/lb. | (1) |
| | |

Total Responses

Question 6e: Do you currently, or have you in the past, sold any of the following alternative species? (Sweetmeats or Slipper Shells)

| Do you currently, or have you in the past, sold any of the following alternative species? |
|---|
| (Sweetmeats or Slipper Shells) |

| | | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|-------------------|-----------|---------|---------------|--------------------|
| | Have Never Sold | 98 | 92.5 | 92.5 | 92.5 |
| ., | Sold in the Past | 7 | 6.6 | 6.6 | 99.1 |
| Valid | Currently Selling | 1 | .9 | .9 | 100.0 |
| | Total | 106 | 100.0 | 100.0 | |



Ninety-three percent of shellfish wholesalers said they have never sold Sweetmeats or Slipper Shells, 7% said they have sold them in the past and 1% said they are currently selling Sweetmeats or Slipper Shells.

| Question 6e: Why are you currently not selling Sweetmeats or Slipper Shells? | | | |
|--|------------------|--|--|
| Response | Frequency | | |
| No Demand | (2) | | |
| No Market | (2) | | |
| Ethnic Market | (1) | | |
| Hard to Ship | (1) | | |
| Have not Sold | (1) | | |
| On/Off Market | (1) | | |
| Too far away to fish (in Chile) | (1) | | |
| Would like to, can't find people | (1) | | |
| | | | |
| Total Responses | 10 | | |

| Question 6e: If you are currently selling Sweetmeats or Slipper Shells, what is the average price |
|---|
| you paid this past season? |

Response

\$1.00/lb.

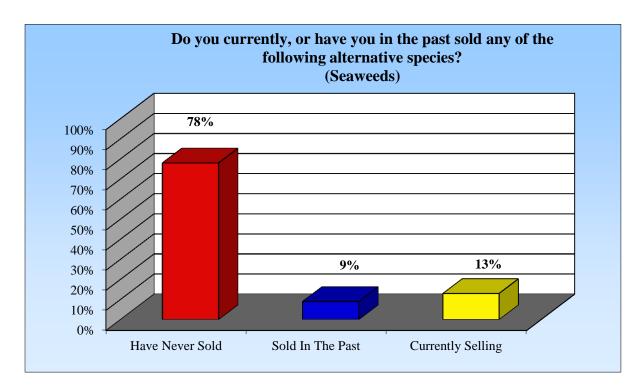
Frequency

(1)

Question 6f: Do you currently, or have you in the past, sold any of the following alternative species? (Seaweeds)

| - | | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------|-------------------|-----------|---------|---------------|--------------------|
| Valid | Have Never Sold | 83 | 78.3 | 78.3 | 78.3 |
| | Sold in the Past | 9 | 8.5 | 8.5 | 86.8 |
| | Currently Selling | 14 | 13.2 | 13.2 | 100.0 |
| | Total | 106 | 100.0 | 100.0 | |

Do you currently, or have you in the past, sold any of the following alternative species? (Seaweeds)



Seventy-eight percent of shellfish wholesalers said they have never sold Seaweeds, 9% said they have sold them in the past and 13% said they are currently selling Seaweeds.

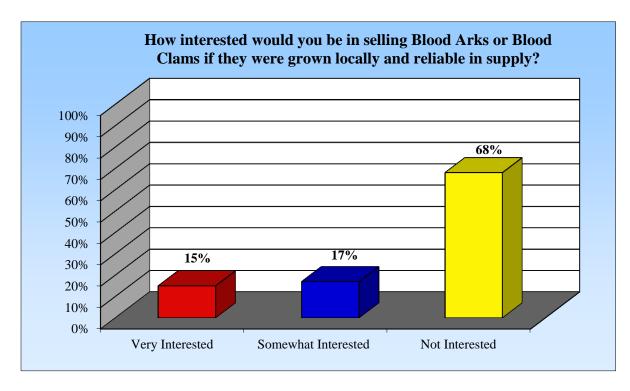
| Question 6f: Why are you currently not selling Seaweeds? | | | | | |
|--|-----------|--|--|--|--|
| Response | Frequency | | | | |
| No Market | (2) | | | | |
| Haven't Sold | (1) | | | | |
| No Supply | (1) | | | | |
| Regulated | (1) | | | | |
| | | | | | |
| Total Responses | 5 | | | | |

| Question 6f: If you are currently selling Seaweeds, what is the average price you paid this past season? | | | | |
|--|-----------|--|--|--|
| | | | | |
| Response | Frequency | | | |
| \$1.00/lb. | (2) | | | |
| \$2.00/lb. | (1) | | | |
| \$2.00/lb. | (1) | | | |
| \$3.00/lb. | (1) | | | |
| \$4.00/lb. | (1) | | | |
| \$5.00 - \$15.00/lb. | (1) | | | |
| \$9.00/qt. | (1) | | | |
| \$20.00/lb. | (1) | | | |
| | | | | |
| Total Responses | 9 | | | |

Question 7a: How interested would you be in selling these alternative species if they were grown locally and reliable in supply? (Blood Arks or Blood Clams)

How interested would you be in selling these alternative species if they were grown locally and reliable in supply? (Blood Arks or Blood Clams)

| | | Frequency | Percent | Valid Percent | Cumulative Percent | | |
|-------|---------------------|-----------|---------|---------------|--------------------|--|--|
| | Very Interested | 16 | 15.1 | 15.1 | 15.1 | | |
| | Somewhat Interested | 18 | 17.0 | 17.0 | 32.1 | | |
| Valid | Not Interested | 72 | 67.9 | 67.9 | 100.0 | | |
| | Total | 106 | 100.0 | 100.0 | | | |

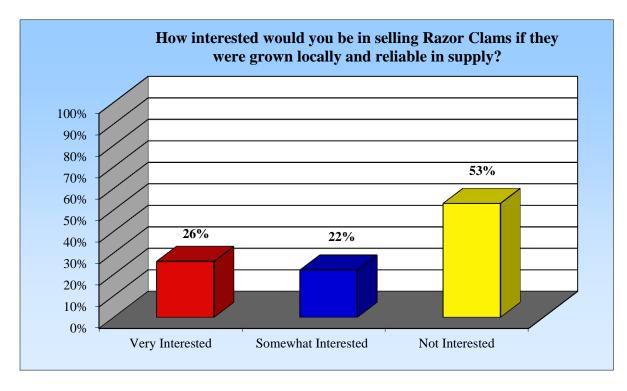


Fifteen percent of shellfish wholesalers said they would be interested in selling Blood Arks or Blood Clams if they were grown locally and reliable in supply, 17% said they are somewhat interested and 68% said they are not interested.

Question 7b: How interested would you be in selling these alternative species if they were grown locally and reliable in supply? (Razor Clams)

How interested would you be in selling these alternative species if they were grown locally and reliable in supply? (Razor Clams)

| | | Frequency | Percent | Valid Percent | Cumulative Percent | | |
|-------|---------------------|-----------|---------|---------------|--------------------|--|--|
| | Very Interested | 27 | 25.5 | 25.5 | 25.5 | | |
| Valid | Somewhat Interested | 23 | 21.7 | 21.7 | 47.2 | | |
| Valid | Not Interested | 56 | 52.8 | 52.8 | 100.0 | | |
| | Total | 106 | 100.0 | 100.0 | | | |

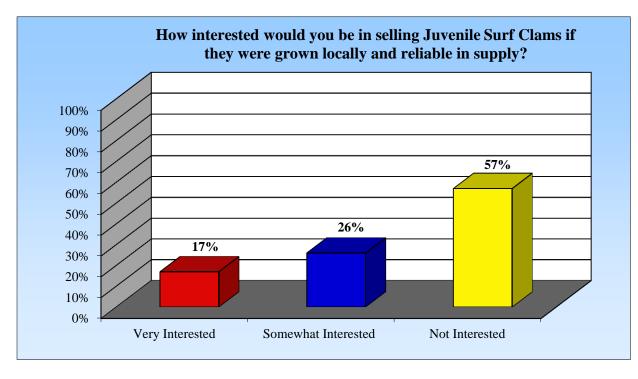


Twenty-six percent of shellfish wholesalers said they would be interested in selling Razor Clams if they were grown locally and reliable in supply, 22% said they are somewhat interested and 53% said they are not interested.

Question 7c: How interested would you be in selling these alternative species if they were grown locally and reliable in supply? (Juvenile Surf Clams)

How interested would you be in selling these alternative species if they were grown locally and reliable in supply?

| (Suvenile Suri Clains) | | | | | | | |
|------------------------|---------------------|-----------|---------|---------------|--------------------|--|--|
| | | Frequency | Percent | Valid Percent | Cumulative Percent | | |
| | Very Interested | 18 | 17.0 | 17.0 | 17.0 | | |
| Valid | Somewhat Interested | 28 | 26.4 | 26.4 | 43.4 | | |
| Valid | Not Interested | 60 | 56.6 | 56.6 | 100.0 | | |
| | Total | 106 | 100.0 | 100.0 | | | |

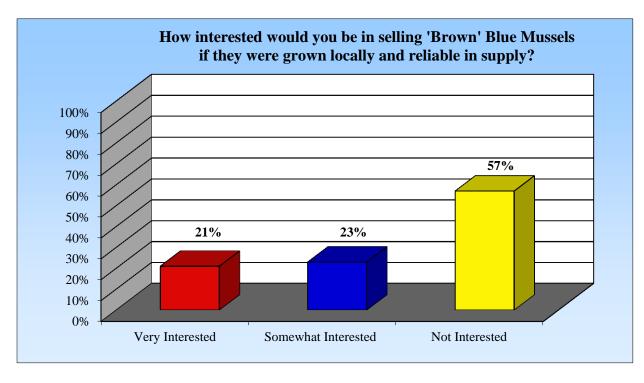


Seventeen percent of shellfish wholesalers said they would be interested in selling Juvenile Surf Clams if they were grown locally and reliable in supply, 26% said they are somewhat interested and 57% said they are not interested.

Question 7d: How interested would you be in selling these alternative species if they were grown locally and reliable in supply? ('Brown' Blue Mussels)

How interested would you be in selling these alternative species if they were grown locally and reliable in supply? ('Brown' Blue Mussels)

| | | Frequency | Percent | Valid Percent | Cumulative Percent | | |
|-------|---------------------|-----------|---------|---------------|--------------------|--|--|
| Valid | Very Interested | 22 | 20.8 | 20.8 | 20.8 | | |
| | Somewhat Interested | 24 | 22.6 | 22.6 | 43.4 | | |
| | Not Interested | 60 | 56.6 | 56.6 | 100.0 | | |
| | Total | 106 | 100.0 | 100.0 | | | |

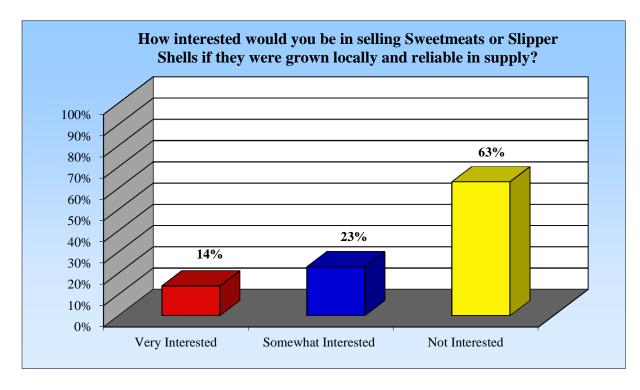


Twenty-one percent of shellfish wholesalers said they would be interested in selling 'Brown' Blue Mussels if they were grown locally and reliable in supply, 23% said they are somewhat interested and 57% said they are not interested.

Question 7e: How interested would you be in selling these alternative species if they were grown locally and reliable in supply? (Sweetmeats or Slipper Shells)

How interested would you be in selling these alternative species if they were grown locally and reliable in supply? (Sweetmeats or Slipper Shells)

| (Sweetineats of Slipper Sheits) | | | | | | | |
|---------------------------------|---------------------|-----------|---------|---------------|--------------------|--|--|
| | | Frequency | Percent | Valid Percent | Cumulative Percent | | |
| | Very Interested | 15 | 14.2 | 14.2 | 14.2 | | |
| Valid | Somewhat Interested | 24 | 22.6 | 22.6 | 36.8 | | |
| Valid | Not Interested | 67 | 63.2 | 63.2 | 100.0 | | |
| | Total | 106 | 100.0 | 100.0 | | | |

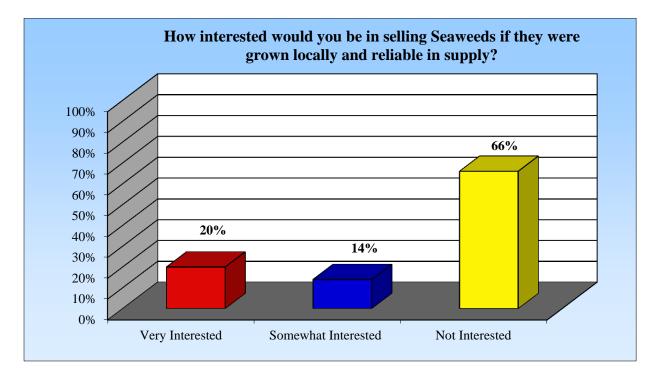


Fourteen percent of shellfish wholesalers said they would be interested in selling Sweetmeats or Slipper Shells if they were grown locally and reliable in supply, 23% said they are somewhat interested and 63% said they are not interested.

Question 7f: How interested would you be in selling these alternative species if they were grown locally and reliable in supply? (Seaweeds)

How interested do you think your customers would be in purchasing these alternative species if they were available? (Seaweeds)

| (Seaweeds) | | | | | | | | |
|------------|---------------------|-----------|---------|---------------|--------------------|--|--|--|
| | | Frequency | Percent | Valid Percent | Cumulative Percent | | | |
| | Very Interested | 21 | 19.8 | 19.8 | 19.8 | | | |
| Valia | Somewhat Interested | 15 | 14.2 | 14.2 | 34.0 | | | |
| Valid | Not Interested | 70 | 66.0 | 66.0 | 100.0 | | | |
| | Total | 106 | 100.0 | 100.0 | | | | |



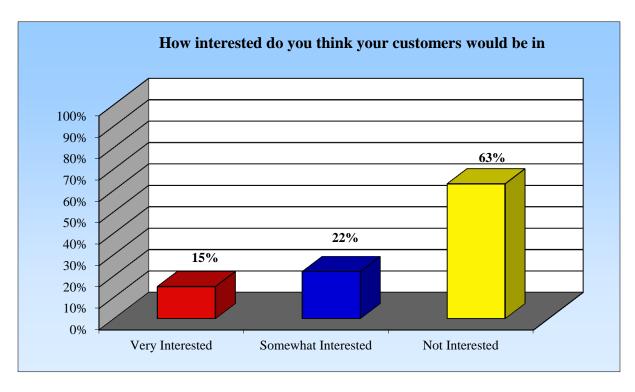
Twenty percent of shellfish wholesalers said they would be interested in selling Seaweeds if they were grown locally and reliable in supply, 14% said they are somewhat interested and 66% said they are not interested.

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Question 8a: How interested do you think your customers would be in purchasing these alternative species if they were available? (Blood Arks or Blood Clams)

How interested do you think your customers would be in purchasing these alternative species if they were available? (Blood Arks or Blood Clams)

| | | Frequency | Percent | Valid Percent | Cumulative Percent | | |
|-------------|---------------------|-----------|---------|---------------|--------------------|--|--|
| | Very Interested | 16 | 15.1 | 15.1 | 15.1 | | |
| \ / - !! -! | Somewhat Interested | 23 | 21.7 | 21.7 | 36.8 | | |
| Valid | Not Interested | 67 | 63.2 | 63.2 | 100.0 | | |
| | Total | 106 | 100.0 | 100.0 | | | |

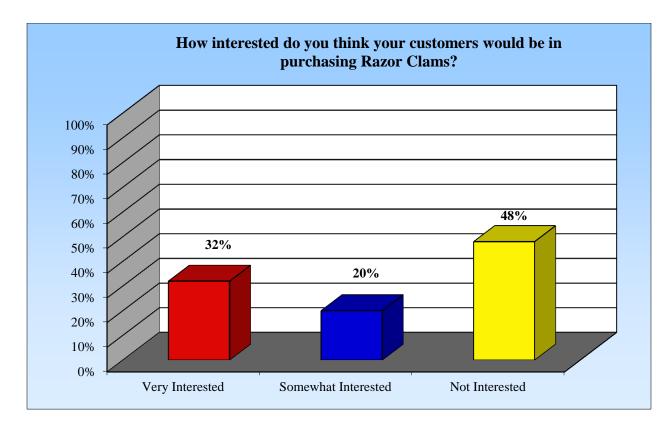


Fifteen percent of shellfish wholesalers think their customers would be very interested in purchasing Blood Arks or Blood Clams, 22% think they would be somewhat interested and 63% think they would not be interested.

Question 8b: How interested do you think your customers would be in purchasing these alternative species if they were available? (Razor Clams)

How interested do you think your customers would be in purchasing these alternative species if they were available?

| (Razor Clams) | | | | | | | |
|---------------|---------------------|-----------|---------|---------------|--------------------|--|--|
| | | Frequency | Percent | Valid Percent | Cumulative Percent | | |
| | Very Interested | 34 | 32.1 | 32.1 | 32.1 | | |
| Valid | Somewhat Interested | 21 | 19.8 | 19.8 | 51.9 | | |
| Valid | Not Interested | 51 | 48.1 | 48.1 | 100.0 | | |
| | Total | 106 | 100.0 | 100.0 | | | |

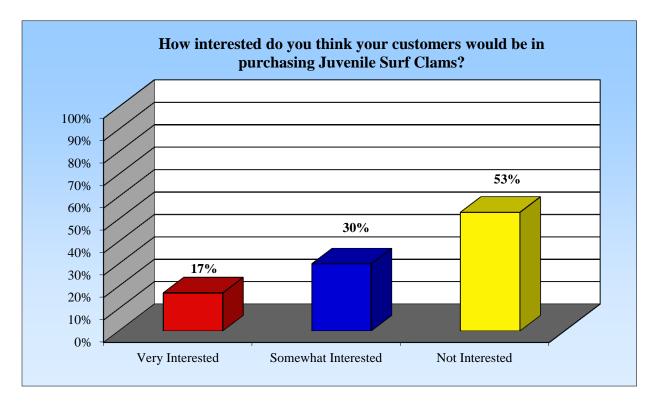


Thirty-two percent of shellfish wholesalers think their customers would be very interested in purchasing Razor Clams, 20% think they would be somewhat interested and 48% think they would not be interested.

Question 8c: How interested do you think your customers would be in purchasing these alternative species if they were available? (Juvenile Surf Clams)

How interested do you think your customers would be in purchasing these alternative species if they were available?

| | | Frequency | Percent | Valid Percent | Cumulative Percent | | | |
|-------|---------------------|-----------|---------|---------------|--------------------|--|--|--|
| | Very Interested | 18 | 17.0 | 17.0 | 17.0 | | | |
| Valid | Somewhat Interested | 32 | 30.2 | 30.2 | 47.2 | | | |
| | Not Interested | 56 | 52.8 | 52.8 | 100.0 | | | |
| | Total | 106 | 100.0 | 100.0 | | | | |

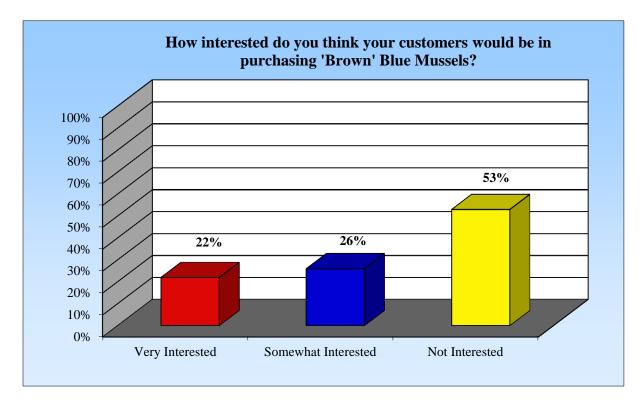


Seventeen percent of shellfish wholesalers think their customers would be very interested in purchasing Juvenile Surf Clams, 30% think they would be somewhat interested and 53% think they would not be interested.

Question 8d: How interested do you think your customers would be in purchasing these alternative species if they were available? ('Brown' Blue Mussels)

How interested do you think your customers would be in purchasing these alternative species if they were available? ('Brown' Blue Mussels)

| (Brown Blue Mussels) | | | | | | | | |
|----------------------|---------------------|-----------|---------|---------------|--------------------|--|--|--|
| | | Frequency | Percent | Valid Percent | Cumulative Percent | | | |
| | Very Interested | 23 | 21.7 | 21.7 | 21.7 | | | |
| Valid | Somewhat Interested | 27 | 25.5 | 25.5 | 47.2 | | | |
| | Not Interested | 56 | 52.8 | 52.8 | 100.0 | | | |
| | Total | 106 | 100.0 | 100.0 | | | | |

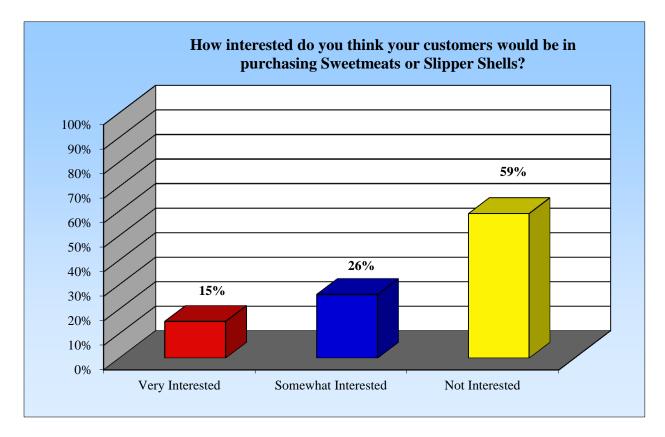


Twenty-two percent of shellfish wholesalers think their customers would be very interested in purchasing 'Brown' Blue Mussels, 26% think they would be somewhat interested and 53% think they would not be interested.

Question 8e: How interested do you think your customers would be in purchasing these alternative species if they were available? (Sweetmeats or Slipper Shells)

How interested do you think your customers would be in purchasing these alternative species if they were available? (Sweetmeats or Slipper Shells)

| (Sweetinears of Shipper Sheirs) | | | | | | | | |
|---------------------------------|---------------------|-----------|---------|---------------|--------------------|--|--|--|
| | | Frequency | Percent | Valid Percent | Cumulative Percent | | | |
| Valid | Very Interested | 16 | 15.1 | 15.1 | 15.1 | | | |
| | Somewhat Interested | 28 | 26.4 | 26.4 | 41.5 | | | |
| | Not Interested | 62 | 58.5 | 58.5 | 100.0 | | | |
| | Total | 106 | 100.0 | 100.0 | | | | |

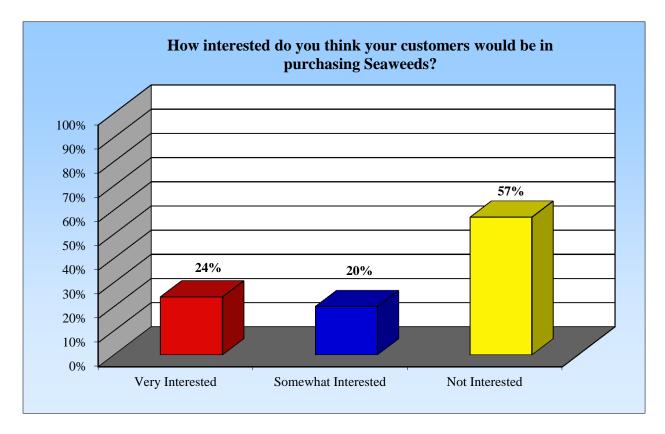


Fifteen percent of shellfish wholesalers think their customers would be very interested in purchasing Sweetmeats or Slipper Shells, 26% think they would be somewhat interested and 59% think they would not be interested.

Question 8f: How interested do you think your customers would be in purchasing these alternative species if they were available? (Seaweeds)

How interested do you think your customers would be in purchasing these alternative species if they were available?

| (Seaweeds) | | | | | | | | |
|------------|---------------------|-----------|---------|---------------|--------------------|--|--|--|
| | | Frequency | Percent | Valid Percent | Cumulative Percent | | | |
| | Very Interested | 25 | 23.6 | 23.6 | 23.6 | | | |
| Valid | Somewhat Interested | 21 | 19.8 | 19.8 | 43.4 | | | |
| | Not Interested | 60 | 56.6 | 56.6 | 100.0 | | | |
| | Total | 106 | 100.0 | 100.0 | | | | |

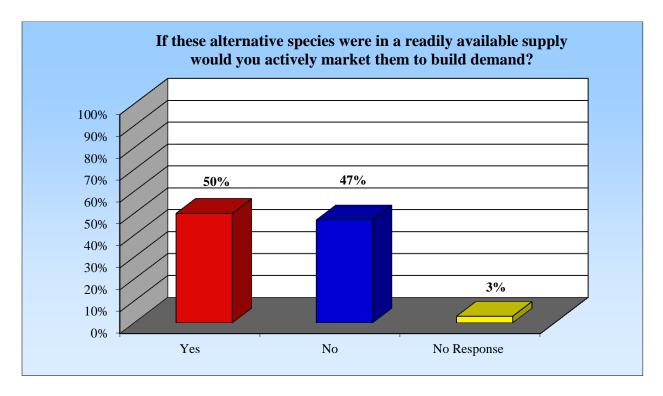


Twenty-four percent of shellfish wholesalers think their customers would be very interested in purchasing Seaweeds, 20% think they would be somewhat interested and 57% think they would not be interested.

Question 9: If these alternative species were in a readily available supply would you actively market them to build demand?

| | | Frequency | Percent | Valid | Cumulative |
|-------|-------------|-----------|---------|---------|------------|
| | | | | Percent | Percent |
| | Yes | 53 | 50.0 | 50.0 | 50.0 |
| | No | 50 | 47.2 | 47.2 | 97.2 |
| Valid | No Response | 3 | 2.8 | 2.8 | 100.0 |
| | Total | 106 | 100.0 | 100.0 | |

If these alternative species were in a readily available supply would you actively market them to build demand?



Fifty percent of shellfish wholesalers said that if these alternative species were in a readily available supply they would actively market them to build demand, 47% said they would not and 3% had no response.

| ethnic market? If so, please describe the market. | | | | | | |
|---|------------------|--|--|--|--|--|
| Response | Frequency | | | | | |
| No Special Market | (7) | | | | | |
| Asian Market | (6) | | | | | |
| Blood Arks, ethnic market. Razor, All markets | (1) | | | | | |
| Both, local market for New Bedford | (1) | | | | | |
| Chinese Market | (1) | | | | | |
| Chinese New Year large oysters | (1) | | | | | |
| Curious Public | (1) | | | | | |
| Ethnic Market | (1) | | | | | |
| Ethnic, Chinese, started four years ago in New York | (1) | | | | | |
| Ethnic, Consistent availability market | (1) | | | | | |
| High-end restaurants and Asian Market | (1) | | | | | |
| Japanese and Chilean markets, high end country clubs | (1) | | | | | |
| Korean, Asian Market | (1) | | | | | |
| Market dies, because business they bought from went out of business | (1) | | | | | |
| Pet food | (1) | | | | | |
| Razor Clams are a Christmas type thing | (1) | | | | | |
| Razor Clams at white tablecloth places. As well as Asian markets | (1) | | | | | |
| Razor Clams, Asian market. Live surf clams more ethnic but have to be processed | (1) | | | | | |
| Seaweed to Asian market | (1) | | | | | |
| Sold Razor Clams to the Asian Market | (1) | | | | | |
| Sold to Whole Foods | (1) | | | | | |
| Tried to sell Blood Arks to West Coast (they did not like them) | (1) | | | | | |
| Used in retail, pre-packaged and raw meals, no specific market | (1) | | | | | |
| Vietnamese, Spanish | (1) | | | | | |
| We sell into both mainstream and ethnic markets | (1) | | | | | |
| | | | | | | |

Question 10: If you have sold any of these alternative species in the past, was it a specialty or

Total Responses

Question 11a: If you are not currently selling any of these species, what would be needed for you to have an interest in selling them?

If you are not currently selling any of these species, what would be needed for you to have an interest in selling them? (More Market Information)

| | | Frequency | Percent | Valid Percent | Cumulative Percent | | | |
|-------|-------|-----------|---------|---------------|--------------------|--|--|--|
| | Yes | 34 | 32.1 | 32.1 | 32.1 | | | |
| Valid | No | 72 | 67.9 | 67.9 | 100.0 | | | |
| | Total | 106 | 100.0 | 100.0 | | | | |

If you are not currently selling any of these species, what would be needed for you to have an interest in selling them? (More Reliable Supply)

| | | Frequency | Percent | Valid Percent | Cumulative Percent | | |
|-------|-------|-----------|---------|---------------|--------------------|--|--|
| | Yes | 42 | 39.6 | 39.6 | 39.6 | | |
| Valid | No | 64 | 60.4 | 60.4 | 100.0 | | |
| | Total | 106 | 100.0 | 100.0 | | | |

If you are not currently selling any of these species, what would be needed for you to have an interest in selling them? (Better Price Margin)

| | | Frequency | Percent | Valid Percent | Cumulative Percent | | |
|-------|-------|-----------|---------|---------------|--------------------|--|--|
| | Yes | 27 | 25.5 | 25.5 | 25.5 | | |
| Valid | No | 79 | 74.5 | 74.5 | 100.0 | | |
| | Total | 106 | 100.0 | 100.0 | | | |

If you are not currently selling any of these species, what would be needed for you to have an interest in selling them? (Increased Customer Demand)

| | (| | | | | | | |
|-------|-------|-----------|---------|---------------|--------------------|--|--|--|
| | | Frequency | Percent | Valid Percent | Cumulative Percent | | | |
| | Yes | 50 | 47.2 | 47.2 | 47.2 | | | |
| Valid | No | 56 | 52.8 | 52.8 | 100.0 | | | |
| | Total | 106 | 100.0 | 100.0 | | | | |

Question 11a: If you are not currently selling any of these species, what would be needed for you to have an interest in selling them? (Continued)

If you are not currently selling any of these species, what would be needed for you to have an interest in selling them? (No Interest in Selling these Species)

| | (| | | | | | | |
|-------|-------|-----------|---------|---------------|--------------------|--|--|--|
| | | Frequency | Percent | Valid Percent | Cumulative Percent | | | |
| | Yes | 45 | 42.5 | 42.5 | 42.5 | | | |
| Valid | No | 61 | 57.5 | 57.5 | 100.0 | | | |
| | Total | 106 | 100.0 | 100.0 | | | | |

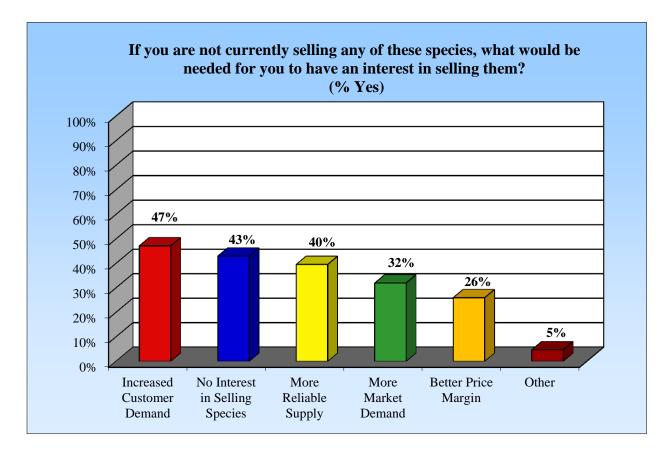
If you are not currently selling any of these species, what would be needed for you to have an interest in selling them? (Other)

| | (Child) | | | | | | | |
|-------|---------|-----------|---------|---------------|--------------------|--|--|--|
| | | Frequency | Percent | Valid Percent | Cumulative Percent | | | |
| | Yes | 5 | 4.7 | 4.7 | 4.7 | | | |
| Valid | No | 101 | 95.3 | 95.3 | 100.0 | | | |
| | Total | 106 | 100.0 | 100.0 | | | | |

Other Responses

- "Land to farm them in"
- "Must comply with Whole Foods Standards"
- "Not interested in selling anything besides oysters"
- "State should help market these alternative species"
- "Target Asian market for these species"
- "Very slow at Edgartown, no shelf life, last less than 72 hours

Question 11a: If you are not currently selling any of these species, what would be needed for you to have an interest in selling them? (Continued)



Forty-seven percent of shellfish wholesalers said they would need more customer demand to have interest in selling alternative species, 43% said they have no interest in selling these species, 40% said they need a more reliable supply, 32% said they need more market demand, 26% said they need better price margin and 5% said they would need something else.

Question 12: Is there anything you could suggest to help SEMAC build a demand for these species?

- "Alert the public of the dangers of FMOS, antibiotics in meats, animal feed dangers etc. vs. seafood benefits."
- "Available recipes, tips for handling (store, shelf life, ship information). Going to talk directly to chief, show them how to use the species in a food dish."
- "Avoid oysters, not that profitable. Periwinkle is the next big seafood is his prediction."
- "Better advertising."
- "Build Customer Demand."
- "Check if the juvenile surf clam is illegal."
- "Disease from shellfish can harm us. Too much processing involved."
- "Do what the Maine Fisheries Department in doing because they are on top of their game."
- "Educating people in sustainable shellfish and how to properly cook them."
- "Education on these species and advice on how to cook them."
- "Encourage initiative to farm locally."
- "Find a market or steady demand."
- "Find the demand."
- "Get the species to restaurants for people to try them. People will try them this way rather than on their own."
- "Get the word out about these shellfish."
- "Grants to growers."
- "Grow Blood Clams and Razor Clams because there is a demand."
- "Have a more reliable seed source."
- "Information about them all."
- "Market material and getting information to the customers."

- "Market the alternative species."
- "Most species are wild catch species, ex. Duxbury has lots of Razor Clams, demonstrate to wild catch fisherman that there's enough volume of species so they can make money."
- "Need to promote these species to the general public like other underutilized species."
- "New generation not interested in the species listed."
- "Offer samples or a way for wholesalers and consumers to try these species."
- "Packaging to increase shelf life. How to cook them properly."
- "Product knowledge, need to know more and find demand."
- "Promote the alternative species."
- "Razor Clams are hot right now. Blood Clams, small demand but rising. Juvenile, belly is poisonous, market restriction for the small clam market. Mussels, short shelf life, more frozen, and difficult margins."
- "Real life information on how to cook, farm, make sustainable."
- "Show the species in Chronical, major magazine may spark interest."
- "Startup money into a marketing campaign. In the 1970s SEAGRANT provided money to market mussels.
- "Stick with what you are good at selling."
- "Supply issue."
- "To find the demand."
- "Utilization of products."

Question 12: Is there anything you could suggest to help SEMAC build a demand for these species? (Continued)

• "You have to envision how high end chefs are going to be able to put these things into a dish. I think they're all really cool and whenever we get stuff like this in, we move it to a few super creative chefs. Razor Clams have done well because they can be the main protein in an appetizer. Limpets/Slipper shells though are a good example of a species where no one is ever going to sell enough of them at a high enough margin to make it worthwhile. Blood Arks are cool, but they push the envelope. If we could convince people they won't give you Hepatitis C we'd be in a much better position to sell them. Anyhow, only after the notable chefs start using them, then there's a trickledown effect and that's how the market develops."

- Castle Hill Lobster Co., Inc.
- Coonamessett Farm, Inc.
- Cotuit Oyster Company, Inc.
- Edgartown Seafood Market
- Federal Shell + Fish, LLC
- Georges Bank, LLC
- Ipswich Shellfish Fish Market
- John Nagle, Co.
- Menemsha Fish House
- Nantucket Seafoods
- Rocky Neck Fish, Co.
- Salty Balls Seafood, LLC
- Seaway Company
- Taylor Cultured Seafood
- The Big Rock Oyster Company
- Wellfleet Shellfish, Co.

Wholesalers interested in selling Razor Clams

- Captain Marden's Seafoods
- Castle Hill Lobster Co., Inc.
- Chatham Shellfish Company
- Constitution Seafoods, Inc.
- Coonamessett Farm, Inc.
- David's Fish Market, Inc.
- Edgartown Seafood Market
- Federal Shell + Fish, LLC
- Georges Bank, LLC
- Green Pond Fish Market
- Ipswich Shellfish Fish Market
- John Nagle, Co.
- M.F. Foley Company, Inc.
- Menemsha Fish House
- Mullaney's Harborside Fish Market
- Nantucket Seafoods
- Pangea Shellfish & Seafood Company, Inc.
- Patriot Seafoods
- Plymouth Rock Oyster Growers
- Rocky Neck Fish Co.
- Salty Balls Seafood, LLC
- Seaway Company
- Swansea Shellfish, Inc.
- Taylor Cultured Seafood
- The Big Rock Oyster Company
- Wellfleet Shellfish, Co.
- Wildfish, LLC

- Atlantic Capes Fisheries, Inc.
- Captain Marden's Seafoods
- Castle Hill Lobster Co., Inc.
- Channel Fish Co., Inc.
- Coonamessett Farm, Inc.
- Edgartown Seafood Market
- Federal Shell + Fish, LLC
- Georges Bank, LLC
- John Nagle Co.
- Menemsha Fish House
- North Coast Seafoods, Inc.
- Rocky Neck Fish Co.
- Salty Balls Seafood, LLC
- Seaway Company
- Taylor Cultured Seafood
- The Big Rock Oyster Company
- Wellfleet Shellfish Co.
- Wildfish, LLC

- Brant Rock Fish Market
- Castle Hill Lobster Co., Inc.
- Coonamessett Farm, Inc.
- Edgartown Seafood Market
- Federal Shell + Fish, LLC
- Georges Bank, LLC
- Grass Ground Corp /Cataumet Fish
- Ipswich Shellfish Fish Market
- John Nagle Co.
- M.F. Foley Company, Inc.
- Menemsha Fish House
- Northern Wind, Inc.
- Pangea Shellfish & Seafood Company, Inc.
- Pocomo Meadow Oysters
- Rocky Neck Fish Co.
- Salty Balls Seafood, LLC
- Seaway Company
- Taylor Cultured Seafood
- The Big Rock Oyster Company
- The Gloucester House
- Wellfleet Shellfish Co.
- Whole Foods Market

Wholesalers interested in selling Sweetmeats or Slipper Shells

- Coonamessett Farm, Inc.
- Cotuit Oyster Company, Inc.
- Edgartown Seafood Market
- Federal Shell + Fish, LLC
- Georges Bank, LLC
- John Nagle Co.
- Menemsha Fish House
- Nantucket Seafoods
- Plymouth Rock Oyster Growers
- Salty Balls Seafood, LLC
- Seaway Company
- Taylor Cultured Seafood
- The Big Rock Oyster Company
- Wellfleet Shellfish Co.
- Whole Foods Market

Wholesalers interested in selling Seaweeds

- All Island Seafood, Inc.
- Captain Marden's Seafoods
- Chatham Fish and Lobster Company
- Constitution Seafoods, Inc.
- Coonamessett Farm, Inc.
- David's Fish Market, Inc.
- Edgartown Seafood Market
- Federal Shell + Fish, LLC
- Georges Bank, LLC
- John Nagle Co.
- Menemsha Fish House
- Mullaney's Harborside Fish Market
- Nantucket Seafoods
- Patriot Seafoods
- Salty Balls Seafood, LLC
- Seaway Company
- Taylor Cultured Seafood
- The Big Rock Oyster Company
- Turk's Seafood
- Wellfleet Shellfish Co.
- Wildfish LLC