FROZEN PROCESSED FISH AND SHELLFISH CONSUMPTION IN

INSTITUTIONS AND PUBLIC EATING PLACES

Houston, Texas

UNITED STATES DEPARTMENT OF THE INTERIOR FISH AND WILDLIFE SERVICE BUREAU OF COMMERCIAL FISHERIES WASHINGTON 25, D. C.

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United States Department of the Interior, Fred A. Seaton, Secretary

Fish and Wildlife Service, Arnie J. Suomela, Commissioner

Bureau of Commercial Fisheries, Donald L. McKernan, Director

INSTITUTIONS AND PUBLIC EATING PLACES are among the best of all potential markets for frozen fishery products. In recognition of this, a survey was undertaken to obtain information on the consumption of frozen processed fish and shellfish in these establishments.

This study was conducted in ten selected cities by Crossley, S-D Surveys, Inc., of New York City in order to obtain information which could be used by the fishing industry to increase consumer demand for fishery products. The data obtained for each city as a result of this survey, together with an explanation of the methods and procedures used, are published in a series as follows:

> Circular 66 - Survey Methods and Porcedures Circular 67 - Atlanta, Georgia Circular 68 - Chicago, Illinois Circular 69 - Cleveland, Ohio Circular 70 - Denver, Colorado Circular 71 - Houston, Texas Circular 72 - Los Angeles, California Circular 73 - New York, New York Circular 74 - Omaha, Nebraska Circular 75 - Portland, Oregon Circular 76 - Springfield, Massachusetts

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These publications are available upon request from the Director, Bureau of Commercial Fisheries, U. S. Department of the Interior, Washington 25, D. C.

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HOUSTON, TEXAS

Prepared in the Division of Industrial Research and Services

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CIRCULAR 71

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SUMMARY OF FINDINGS

(Houston)

A. Use of Frozen Processed Sea Food (Tables 1, 2)

Five sixths of all the establishments in Houston said they bought see food in the previous twelve months. Among buyers of sea food, the majority said they made purchases of sea food i) the <u>frozen processed</u> form.

Thirty-nine per cent of all the establishments said they had bought frozen processed fish in November, 1958; 33 per cent said they had bought frozen processed shellfish; and 19 per cent said they had bought portions.

Among institutions (such as schools and hospitals), the incidence of use of frozen processed sea food was greater than among public eating places.

Of the ten cities in the survey, Houston ranked fifth, in terms of the percentage of all establishments buying frozen processed sea food.

B. Frozen Processed Fish Parchases, Attitudes, and Proctices

1. Purchases: Species and Amount of Prepreparation (Tables 3. 4)

Almost one third of the users of frozen processed fish bought codfish fillets during November, 1958. This was the leading item in Houston in terms of total pounds purchased.

Ocean perch fillets were bought by a sizable number of Houston establishments; while

codfish steaks and fish cakes were popular in the Houston schools.

Codfish fillets were frequently bought in Los Angeles, Omaha, and New York, while ocean perch fillets were purchased widely and in substantial quantities in the Southern and Middle Western cities included in the survey.

2. Attitudes Toward Prepreparation and Quality and Condition of Fish (Tables 5, 6)

A great majority of Houston purchasers were satisfied with the present prepreparation of fish, and with the quality and condition of the fish.

This was generally true for the tet rities included in the survey.

3. Packsging of Fish (Tables 7, 8)

Houston establishments most typically bought frozen processea fish in 5 pound packages.

4. <u>Methods of Preparing and Serving Fish</u> (Table 9)

Frying was the most usual method of preparing fisb among Houston establishments. The average establishment served 79 per cent of its fish fried. Frying was the leading method in all ten cities of the study.

- C. Frozen Processed Shellfish Purchases, Attitudes, and Practices
 - 1. <u>Purchases: Species and Type of Prepreparation (Tables 1., 11)</u>

Half of the Houston purchasers of shellfish bought breaded shrimp in November, 1958. Two fifths of the establishments bought raw shrimp. These two items were also first and second in Houston, in terms of total quantity purchased.

Breaded shrimp and raw shrimp were bought widely and in large quartities in all of the other cities included in the study.

2. Attitudes Toward Prepreparation; Toward Quality and Condition of Shellfish (Tables 12, 13)

All but a small number of purchasers were satisfied with the present prepreparation of shellfish, and with the quality and condition of the shellfisb which they bought.

The same held generally true for the other cities in the survey.

3. Packaging of Shellfish (Tables 14, 15)

Breaded shrimp was characteristically bought in 3 pound packages in Houston. Raw shrimp was most often bought in 5 pound packages. 4. <u>Methods of Preparing and Serving Shellfish</u> (Table 16)

Frying was the most popular way of preparing shellfish in Houston. The typical establishment served two thirds of its shellfish fried.

As with fish, frying was the leading method of preparing shellfish in all ten cities of the study.

- D. Portion Controlled Sea Food Purchases, Attitudes, and Practices
 - 1. Purchases: Type of Prepreparation (Tables 1: 17, 18, 19)

Almost a fifth of all the establishments in Houston bought portions during November, 1958. Houston ranked fifth in percentage of establishments buying portions.

In Houston, portions were most widely bought uncooked and breaded; and the quantity purchased was greater than that of any other type of prepreparation.

Half of the purchasers of portions said that they were currently buying about the same amount of portions as the year before. About a quarter said they were buying more while 14 per cent said they were buying less.

2. <u>Attitudes Toward Portions (Tables 20, 21, 22, 23, 24)</u>

Nearly all establishments said they were satisfied with the quality and condition of portions. About one sixth of the users of portions said they thought the guality of portions was better than that of other frozen processed fish. Almost four fifths rated the guality as about the same.

Major advantages lites for portions includes.

	% of Users Citin
Convenience, ease of preparation	55
Fast, timessving	37
Size of portions, uniform portions	36
Can control food costs be ter -	
know profit	18

About a fourth of the user- specifies some disadvantage to using portions. A variety of disadvantages were mentioned.

Users of portions generally thought their customers liked portions as well as other types of frozen processed fish with fewer than T per cent saying that their customers liked portions less than other types of frozen processed set food.

3. Packaging of Portions (Tables 25, 26)

Houston purchasers tended to buy portions in packages of about the same size as those preferred by purchasers in other cities. The average weight of a package of portions for the city was 5.9 pounds.

However, they tended to buy individual portions of larger size. The average weight of an individual portion was 7.8 ounces.

Almost all establishments, in Houston and the other nine cities, said they were satisfied with the size of portions in the packages.

4. Methods of Preparing and Serving Portions (Tables 27, 25)

Frying was the most widely used method of preparing and serving portions in Houston with 91 per cent of the establishments serving them this way. The average establishment served 82 per cent of its portions fried.

Frying was the leading method in nine of the ten cities of the study. The exception was Springfield, Massachusetts, where baking was the most popular method of preparation.

Five fixth of the Houston establishments using portions cooked them while frozen.

Cost of Using Portions (Table 29)

Only a tenth of the establishments using portions said they were more expensive than other forms of frozen processed fish. A large majority of users considered them less expensive, or rated them about the same.

6. Miscellaneous Findings About Portions (Tables 30, 31)

Three quarters of the Houston establishments said they specified the kind of fish when ordering portions.

Only 3 per cent of the users suggested any

new portion items, not now available, which they would like to have.

7. Nonusers of Portions (Table 32)

Establishments which used frozen processed sea food, but not portions, gave a number of reasons for not buying portions: they used fresh fish, they sold comparatively little fisb, they served other types of fish

E. Suppliers of Frozen Processed Sea Food (Tables 33, 34, 35, 36)

Establishments in Houston tended to buy frozen processed sca food from sea food wholesalers, usually less than ten miles away, to have it delivered once a week, and to be satisfied with the services of the suppliers.

Sea food wholesalers supplied 58 per cent of the establishments, while frozen food distributors accounted for another 3^4 per cent.

Main suppliers were located less than ten miles from the establishment, in 65 per cent of the cases.

In more than half the cases, deliveries were made once a week, while deliveries were made from two to four times a week in about 20 per cent of the establishments.

Only a small fraction of the purchasers said they could think of ways in which the auppliers could improve their services.

F. Expenditures for Frozen Processed Sea Food; Its Profitability (Tables 37, 38)

Two fifths of the establishments reporting in Houston said that they spent less than \$250 for frozen processed sea food during the preceding twelve months. The highest figure reported fell between \$30,000 and \$49.999. Other establishments were between these two extremes, with the median coming at \$383.

More than two thirds of the profit-making establishments which expressed an opinion, considered frozen processed sea food more profitable than other high protein foods.

G. Government Inspection of Frozen Processed Sea Food - Awareness. Effect, and Attitudes (Tables 39, 40, 41, 42)

All but ϑ per cent of the establishments in Houston were aware that they could buy frozen processed sea food, which had been inspected or graded by the United States Government.

Of the establishments aware that they could buy Government inspected or graded sea food, almost all said they had bough' some. When purchasers were asked if the inspection had affected the amount of frozen processed ses food which they bought, 5 per cent said the inspection had caused them to buy more.

H. Nonusers of Frozen Processed Sea Food; Cold Storage Facilities (Tables 43, 44, 45)

Most nonusers in Houston said they had never bought frozen processed sea food with the main reasons given that they sold little or no fish, or used fresh fish.

Findings regarding cold storage facilities among nonusers in Houston may be summarized as follows:

	22
Total Nonusers of Frozen Processed Sea Food	100
Have cold storage facilities Don't use sea food at all Use sea food but not frozen processed sea food	66 20 46
No cold storage facilities	34

DETAILED FINDINGS

Table 1

DID THE ESTABLISHMENT BUY SEA FOOD IN THE PRECEDING TWELVE MONTHS?

According to Type of Establishment and Sales Volume

		Type of H	stablishment_		Sales N	/olume	
	Total	Public Eating Places	Institutions	Less Than \$10,000	\$10,000- 39,999	\$40,000- 99,999	\$100,000 and Over
Total Establishments	(288)	(196)	(92)	(101)	(91)	(44)	(52)
	Z	É	渔	渔	Z	Z	ž
	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Yes, bought sea food	83.0	78.8	98.3	75-4	86.5	89.3	87.0
Bought frozen processed sea food Bought frozen processed fish Bought frozen processed shellfish Bought portions	58.4 38.6 33.0 18.8	49.9 28.2 36.8 18.6	88.9 76.1 19.7 19.7	<u>44.5</u> 27.2 20.4 15.7	62.4 42.4 34.1 18.8	80.0 56.0 52.0 30.7	62.0 41.0 41.0 16.0
No, did not buy sea food	17.0	21.2	1.7	24.6	13.5	10.7	13.0

DID THE ESTABLISHMENT BUY FROZEN PROCESSED SEA FOOD IN THE PRECEDING TWELVE MONTHS?

According to Type of Establishment and Sales Volume

		Type of Establishment Sales Volume					
	Total	Public Eating Places	Institutions	Less Than \$10,000	\$10,000- 39,999	\$40,060- 99,999	\$100,000 and Over
Total Establishments Purchasing Sea Food in Preceding 12 Months	(245)	(155)	(90)	(79)	(79)	(40)	(47)
	<u>%</u>	Z	<u>%</u>	%	<u>1</u>	<u>ap</u>	<u>%</u>
	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Yes, bought frozen processed sea food	70.3	63.3	90.4	59.0	72.1	89.6	71.3
No, did not buy frozen processed sea food	29.7	36.7	9.6	41.0	27.9	10.4	28.7

FROZEN PROCESSED FISH BOUGHT IN NOVEMBER, 1958 - HOW PROCESSED BEFORE PURCHASE

According to Sales Volume

		Less	.	\$40,000		Total	Less Than \$10,000	\$10,000-	\$40,000 and Over
	Total	Than \$10,000	\$10,000- <u>39,999</u>	and Over				<u>39,999</u>	
						<u>%</u>	<u>%</u>	<u>%</u>	L
Total Users of Frozen Processed Fish	(119)	(32)	(40)	(57)	Halibut Breaded	1.0	-	-	2.4
	<u>%</u>	<u>¢</u>	Z	Z	Fillets	1.4	-	4.2	-
	100.0*	100.0	100.0	100.0	Steaks Breaded fillets Raw	.5 .5 1.4	1.9	1.4	- 3.6
Catfish Fillets	3.4	1.9	4.8	7.3	Ocean Perch				1.0
Breaded fillets	•5	-	1.2	2.4	Breaded Fillets	1.0 14.0	7.7	1.4 15.3 1.4	1.2 16.9
Cod Fillets	30.9	11.5 65.4	27.8 31.9	45.8 19.3	Steaks Breaded fillets Raw	.5 2.4 1.0	-	6.9	2.4
Steaks Breaded fillets Raw	35.3 1.4 7.2	3.8	1.4	- 6.0	Redfish				
Fish Cakes	, • =				Breaded Fillets	.5 1.0	- 1.9	1.2 1.2	2.4
Breaded Raw	1.4 33.3	61.5	4.2 29.2	- 19.3	Red Snapper	1.0	1.9	1.2	2.4
Flounder			20.5	7.0	Fillets Raw	1.4	-	3.6	7.3
Fillets Raw	9.7 2.9	9.6	12.5	7.2 7.2	Salmon Steaks	۰.4	• •	1.4	4.8
Haddock Breaded	2 9 8 7	1.9 1.9	8.3	6.0 13-3	Trout Breaded	1.0	-	2.4	2.4
Fillets Steaks	14	-	-	3.6	Fillets	1.9	-	1.2	-
Raw	5.4	7.7	-	3.6	Steaks Raw	1.4 1.4	-	3.6	7.3

*Denotes that percentages might add to more than the total because of more than one reply to a question.

QUANTITY OF FROZEN PROCESSED FISE BOUGHT IN NOVEMBER, 1958

	Total	Average Numb	er of Pounds User				
	Pounds	Establishments	Establishments				
Catfish			<i></i>		m 1		er of Pounds
Fillets Breaded fillets	467 60	.9 (ъ)	66.7 60.0		Total Pounds	All Establishments	User Establishments
Cod				Ocean Perch	al	(1)	17.0
Fillets	23,359 2,081	43.6	364.9 28.5	Breaded Fillets	34 6,297	(Ъ) 11.7	17.0 217.1
Steaks Breaded fillets	2,001 90	3.9 (ъ)	30.0	Steaks	3	(a)	3.0
Raw	2,465	4.6	164.3	Breaded fillets	104	(b)	20.8 680.0
				Raw	1,360	2.5	600.0
Fish Cakes Breaded	222	(ъ)	74.0	Redfish			
Raw	(a)	-	-	Breaded	30	(b) (b)	30.0
				Fillets	235	(6)	117.5
Flounder Fillets	664	1.2	33.2	Red Snapper			
Raw	147	(b)	33.2 24.5	Fillets	410	, 8	205.0
** 11-1-				Salmon			
Haddock Breaded	226	(b)	37.7	Steaks	230	(ъ)	46.0
Fillets	1,622	3.0	90.1				
Steaks	36	3.0 (b) (b)	12.0	Trout Breaded	40	(b)	20.0
Raw	90	(0)	12.9	Fillets	203	(b)	50.8
Halibut				Steaks	45	(b)	15.0
Breaded	150	(b) (a)	75.0	Raw	3	(a)	1.0
Fillets Steaks	18	(a) -	6.0				
Steaks Breaded fillets	(a) (a)	_	_				
Raw	210	(b)	70.0				

(a) Purchases were not reported in quantities large enough to compute meaningful figures.

(b) Less than half a pound.

SATISFACTION OR DISSATISFACTION WITH PREPREPARATION OF FROZEN PROCESSED FISH

	Total Users (1) 2		Total Users (1)
Total Purchases of Cod	100.0		de L
Prefer more prepreparation of cod Prefer less prepreparation of cod Prefer prepreparation as it is No answer	- 98.1 1.9	<u>Total Purchases of Haddock</u> Prefer more prepreparation of haddock Prefer less prepreparation of haddock Prefer prepreparation as it is No answer	100.0
Total Purchases of Fish Cakes	100.0		
Prefer more prepreparation of fish cakes Prefer less prepreparation of fish cakes Prefer prepreparation as it is	- - 100.0	<u>Total Purchases of Ocean Perch</u> Prefer more prepreparation of ocean perch Prefer less prepreparation of ocean perch Prefer prepreparation as it is	<u>100.0</u> 5.1 94.9
Total Purchases of Flounder	100.0		
Prefer more prepreparation of flounder Prefer less prepreparation of flounder	3.8		

(1) The percentages shown in the body of the table are computed on the total number of purchases of each species of fish.

Prefer prepreparation as it is

Many users hought more than one species. Some establishments also hought a species prepared in two different ways. For example, haddock fillets and haddock steaks. This was counted as two purchases of the apecies.

96.2

Because purchases of many species were few in number, the species are not included in the table.

Table 6

SATISFACTION AND DISSATISFACTION

WITH QUALITY AND CONDITION

OF FROZEN PROCESSED FISH

	Total
Total Users of Frozen Processed Fish, November, 1958	(119)
	Ŀ
	100.0
Satisfied	94.3
Dissatisfied	1.4
No answer	4.3

PACKAGE SIZES OF FROZEN FROCESSED FISH BOUCHT IN NOVEMBER, 1958 AND AVERAGE NUMBER OF SERVINGS PER POUND(1)

Table 7

	Total	Total Purchasers of Plounder Fillets
	¢	
	Ľ	Packages less than 1 pound 1 pound packages
Total Purchasers of		4 pound packages
Cod Fillets	100.0	5 pound packages
l pound packages	7 0	10 pound packages
3 pound packages	7.8 6.3	
5 pound packages	67.2	Average number of servings
7 pound packages	3.1	per pound
10 pound packages	7.8	
15 pound packages	3.1	
50 pound packages and over	4.7	Total Purchasers of Ocean
Average number of servings		Perch Fillets
perpound	3.6	l pound packages 3 pound packages 5 pound packages 10 pound packages

Average number of servings per pound 3.7

Total

100.0

5.0 40.0 10.0 20.0 25.0

3.2

100.0

20.7 20.7 48.3 10.3

(1) The table shows figures for those species and types of prepreparation which occur most often in the city.

Sometimes figures are shown for package sizes but not average number of servings per pound. In these cases the data on servings per pound is limited.

The percentuce is the body of the table are based on the number of establishments which bought one species i fish, preprepared in one manner.

Table 8

SATISFACTION AND DISSATISFACTION

WITH TYPES AND SIZES OF FROZEN

PROCESSED FISH PACKAGES

Total

Total Users of Frozen Processed Pish, November, 1958	(119)
	ž
	100.0
Satisfied	92.8
Dissatisfied	2.9
No answer	4.3

FERCENTAGE OF FROZEN PROCESSED FISH SERVED FRIED, BROILED, BAKED, AND IN OTHER WAYS

According to Sales Volume

	Total	Less Than \$10,000	\$10,000- _39,999_	\$40,000- 99,999	\$100,000 and Over
Total Users of Frozen Processed Fish	(119)	(32)	(40)	(24)	(23)
	<u>%</u>	Ľ	<u>%</u>	<u>K</u>	Ľ
	100.0	100.0	100.0	100.0	100.0
Establishments Serving Fried None fried	5.8	5.8	1.4	11.9	7.3
1 - 14%	- 5.3	-	-	4.8	22.0
15 - 34% 35 - 64%	8.7	1.9	8.3	4.8	22.0 2.4
65 - 84% Over 84%	2.4 73.5	1.9 84.6	4.2 81.9	71.4	46.3
Don't know, no answer, refused	4.3	5.8	4.2	7.1	-
Average percentage served	78.8	85.6	86.6	74.9	60.9
Establishments Serving Broiled			0) (58.6
None broiled	80.2 2.9	88.5	84.6 4.2	83.4 7.1	- 50.0
1 - 14% 15 - 34%	3.9	1.9	1.4	-	14.6 12.2
35 - 64%	4.8 2.9	1.9	4.2	2.4	14.6
65 - 84% Over 84%	1.0	1.9	1.4	-	-
Don't know, no answer, refused	4.3	5.8	4.2	7.1	-
Average percentage served	6.9	3.5	4.2	1.8	20.5
Establishments Serving Baked	0	88.5	95.8	73.8	75.7
None baked 1 - 14%	85.5 .5	1.9	99.0	-	-
1 - 14% 15 - 34%	2.9	-	-	2.4	14.6 7.3
35 - 64%	1.9 1.5	-	-	4.8	2.4
65 - 84\$ Over 84\$	3.4	3.8	-	11.9	-
Don't know, no answer, refused	4.3	5.8	4.2	7.1	-
Average percentage served	6.2	3.9	-	16.9	9.0
Establishments See ing in Other Ways		ch. C	88.8	92.9	90.2
None in other ays	91.3	94.2		-	-
$1 - 14_{7'}$ 15 - 34%	2.9	-	2.8	-	9.8 -
35 - 64%	1.5	-	4.2	_	-
65 - 84%	-	-	-	-	-
Over 84% Don't know, no answer, refused	4.3	5.8	4.2	7.1	-
Average percentage served	1.5	-	2.9	-	2.4

FROZEN PROCESSED SHELLFISH BOUGHT IN NOVEMBER, 1958 -

HOW PROCESSED BEFORE PURCHASE

According to Sales Volume

	Total	Less Than \$40,000	\$40,000 and Over
Total Users of Frozen Processed Shellfish	(97)	(52)	(45)
	<u>%</u>	<u>%</u>	<u>%</u>
	100.0*	100.0	100.0
Clams Breaded	.6	-	1.3
Crabs Cooked Breaded Cooked and deviled Breaded and stuffed Deviled and stuffed	3.4 1.7 .6 1.7 1.1	2.1 1.0	5.0 3.8 3.8 2.5
Crab meat - shelled and debellied, frozen and canned Canned Raw; whole, clean	5.6 .6 6.2	1.0 7.2	12.5 5.0
Lobster Cooked Cleaned and deheaded tails Raw; whole, clean	.6 4.5 9.0	3.1 8.2	1.3 6.3 10.0
Oystera Cooked Breaded Raw; clean, shelled	.6 7.3 10.2	6.2 7.2	1.3 8.8 13.8
Scallops Cooked Breaded Canned Raw; clean, shelled	.6 4.0 .6 4.5	3.1 1.0 3.1	1.3 5.0 6.3
Shrimp Cooked Breaded Cooked and breaded	3.4 50.8 1.1	57.7	7.5 42.5 2.5
Raw; clean, deheaded, shelled and deveined	39.5	33.0	47.5

*Denotes that percentages might add to more than the total because of more than one reply to a question.

QUANTITY OF FROZEN PROCESSED SHELLFISH BOUGHT IN NOVEMBER, 1958

		Average Number of Pounds	
	Total	All	User Establishments
	Pounds	Establishments	Establistments
Clams		<i>(</i>)	
Breaded	50	(b)	50.0
Crabs			
Cooked	294	.5 (b)	49.0
Breaded	164	(b)	54-7
Cooked and deviled	(a)	-	-
Breaded and stuffed	(a) 32	(b)	16.0
Deviled and stuffed Crab meat - shelled and debellied,	32	(0)	10.0
frozen and canned	468	.9	46.8
Canned	600	1.1	600.0
Raw; whole, clean	112	(b)	10.1
,			
Lobster		(-)	- 0
Cooked	180	(b)	180.0
Cleaned and deheaded tails	808 1,541	1.5 2.9	101.0 96.3
Raw; whole, clean	1,741	2.9	y0.3
Oysters			
Cooked	(a)	-	-
Breaded	247	•5	18.9
Raw; clean, shelled	464	.9	25.8
Scallops Cooked	40	(b)	40.0
Breaded	126	(b)	18.0
Canned	(a)	-	-
Raw; clean, shelled	1,170	2,2	146.3
····, ····, ····, ···			
Shrimp		2.1	116 7
Cooked	700	1.3 8.9	116.7 52.4
Breaded	4,716 41	.1	20.5
Cooked and breaded Rouse clopp dobesded shelled	41	* T *	20.9
Raw; clean, deheaded, shelled and deveined	2,262	4.2	32.3
CHT JEVETHER	_,		

(a) Purchasts were not reported in quantities large enough to compute mean ap of figures.

(b) Less than half a pound.

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SATISFACTION OF DISSATISFACTION WITH PREPREPARATION OF FROZEN PROCESSED SHELLFISH

	Total Users (1) g		Total Users (1)
Total Purchases of Crabs	100.0	Total Purchases of Oysters	100.0
Prefer more prepreparation of crabs Prefer less prepreparation of crabs Prefer prepreparation as it is No answer	13.5 83.8 2.7	Prefer more prepreparation of oysters Prefer less prepreparation of oysters Prefer prepreparation as it is No answer	- 96.9 3.1
Total Purchases of Lobster	100.0	Total Purchases of Shrimp	100.0

Prefer more prepreparation of lobster Prefer less prepreparation of lobster	-	Prefer more prepreparation of shrimp Prefer less prepreparation of shrimp	1.2
LIGICI TEPP Highteriou of Topped.	-	rreier iess prepreparation of shrimp	1.2
Prefer prepreparation as it is	96.0	Prefer prepreparation as it is	97.0
No answer	4.0	No answer	.6

(1) The percentages shown in the body of the table are computed on the total number of purchases of each species of shellfish.

Many establishments bought more than one species. Some establishments also bought a species prepared in two different ways. For example, shrimp breaded and shrimp cooked. This was counted as two purchases of the species.

Because purchases of some species--clams, abalone, and others-were few in number, the species are not included in the table.

Table 13

SATISFACTION AND DISSATISFACTION

WITH QUALITY AND CONDITION OF

FROZEN PROCESSED SHELLFISH

Total Users of Prozen Processed (97) <u>Shellfish, November, 1958</u> <u>100.0</u> Satisfied 87.0 Dissatisfied 13.0

PACKAGE SIZES OF FROZEN PROCESSED SHELLFISH BOUGHT IN NOVEMBER, 1958 AND AVERAGE NUMBER OF SERVINGS PER POUND(1)

Total Total % Ź Total Purchasers of 100.0 Total Purchasers of Shrimp - Raw 100.0 Shrimp - Breaded 6.7 1 pound packages 2.9 1 pound packages 3 pound packages 2 pound packages 11.1 5.7 43.4 4 pound packages 2.9 3 pound packages 4 pound packages 3.3 5 pound packages 72.8 32.2 5 pound packages 10 pound packages 15.7 7 pound packages 3.3 Average number of servings Average number of servings per pound 4.4 per pound 3.3

 The table shows figures for those species and types of prepreparation which occur most often in the city.

Sometimes figures are shown for package sizes but not average number of servings per pound. In these cases the data on servings per pound is limited.

The percentages in the body of the table are based on the number of establishments which bought one species of sbellfish, preprepared in one manner.

Table 15

SATISFACTION AND DISSATISFACTION WITH TYPES AND SIZES OF FROZEN

PROCESSED SHELLFISE PACKAGES

Total Users of Frozen Processed Shellfish (97) 2 100.0 Satisfied 98.9 Dissatisfied 1.1

PERCENTAGE OF FROZEN PROCESSED SHELLFISH SERVED FRIED, BROILED, BAKED, AND IN OTHER WAYS

According to Sales Volume

Total Users of Frozen Processed Shellfish	<u>Total</u> (97) <u>2</u> 100.0	Less Than \$40,000 (52) 2	\$40,000 and <u>Over</u> (45) <u>\$</u> 100.0	Total Users of Frozen Processed Shellfish	<u>Total</u> (97) <u>\$</u> 100.0	Less Than \$40,000 (52) £ 100.0	\$40,000 and <u>Over</u> (45) <u>\$</u> 100.0
Rotabl stments Serving Fried		100.0		Establishments Serving Baked None baked	93.7	97.8	88.7
$ \begin{array}{rcl} $	16.4 1.1 4.0 10.7 3.4 62.7	17.5 - 1.0 6.2 1.0 74.3	15.0 2.5 7.5 16.2 48.8	1 - 14\$ 15 - 34\$ 35 - 64\$ 65 - 84\$ Over 84\$.6 1.7 2.3	1.1 1.1 - -	2.5 5.0
Don't know, no answer, refused Average percentage served	1.7 67.7	- 72.4	3.8 61.9	Don't know, no answer, refused Average percentage served	1.7 1.6	-	3.8 3.2
Establiahments Serving Broiled None broiled 1 - 14% 15 - 34% 35 - 64% 65 - 84% Over 84% Don't know, no answer, refused	79.6 6.8 6.2 2.3 .6 2.8 1.7	89.7 3.1 3.1 1.0 3.1	67.5 11.2 13.7 1.3 2.5 3.8	Establishments Serving in Other Ways None in other ways 1 - 14% 15 - 34% 35 - 64% 65 - 84% Over 84% Dop't know, no answer, refused	69.5 2.3 4.5 9.0 13.0 1.7	80.4 1.0 5.2 13.4	56.2 5.0 8.8 13.7 12.5 3.8
Average percentage served	6.3	5.4	7.4	Average percentage served	18.0	15.1	21.6

Note: Percentages, other than average percentages, are based on total establishments interviewed. Average percentages are computed by assigning the cases in any one of the six intervals to the midpoint of the interval, and taking an average of all the cases.

Table 17			
TYPES OF PORTIONS BOUGH IN NOVEMBER, 1958	<u>r</u>		<u>Q</u> (
Total Users of Portions	<u>Total</u> (59) <u>2</u>		Cooked - breaded Cooked - plain
	<u>100.0</u> *		Uncooked - breaded
Cooked - breaded	13.2		Uncooked - plain
Cooked - plain	9.2		
Uncooked - breaded	65.1		
Uncooked - plain	24.4		

4

Table	- 18
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QUANTITY OF PORTIONS BOUGHT IN NOVEMBER, 1958

		Average Numbe	er of Pounds
	Total	All	User
	Pounds	Establishments	Establishments
Cooked - breaded	660	1.2	50.8
Cooked - plain	963	1.8	107.0
Uncooked - breaded	4,774	8.9	74.6
Uncooked - plain	2,573	4.8	107.2

*Denotes that percentages might add to more than the total because of more than one reply to a question.

SATISFACTION AND DISSATISFACTION WITH

QUALITY AND CONDITION OF PORTIONS

Total

Total Purchases of Types of Portions, November, 1958	(66)
	Z
	100.0
Satisfied	99.1
Dissatisfied	۰9

Note: Figures are based on total purchases of types of portions. Some establishments bought more than one type.

Table 19

AMOUNT OF PORTIONS BOUGHT BY

ESTABLISHMENTS, AS COMPARED

TO THE PREVIOUS YEAR

	Total
Total Users of Portions	(59)
	Z
	100.0
Use more now	23.8
Use about the same	49.5
Use less now	13.8
Don't know	12.9

IS THE QUALITY OF PORTIONS BETTER THAN THAT OF OTHER

FROZEN PROCESSED FISH - FOR WHAT REASONS?

(59)
<u>%</u>
100.0
16.8* 8.9 2.0 2.0 2.0 1.0 2.0 2.0
78.2
5.0

Table 22

ADVANTAGES OF USING PORTIONS

	Total
Total Users of Portions, November, 1958	(59)
	Ĺ
	100.0*
Convenience, ease of preparation - save labor, already prepared Fast, timesaving - quicker to serve, prepare Size of portions - uniform, controlled servings, the right size serving Can control food cost better - know profit	55.4 36.6 35.6 17.8
Economical - no waste	13.9
No bones Sanitary - cleaner, safer No spoilage Customers like them Quality	5.0 5.0 2.0 1.0 1.0
All others	1.0
No advantages	1.0

*Denotes that percentages might add to more than the total because of more than one reply to a question.

Total

DISADVANTAGES OF USING PORTIONS

		Total
Total	Users of Portions	(59)
		L
		100.0*
Portions wrong size - too small		5.9
Lack flavor - not as tasty, someti	mes dry	5.0
Not economical - more expensive to) buy	5.0
Quality not as good - not always s in them	sure what's	4.0
All others		5.9
No disadvantages		77.2

Table 24

DO ESTABLISHMENTS THINK CUSTOMERS PREFER PORTIONS TO OTHER

FROZEN PROCESSED FISH - FOR WHAT REASONS?

	Total
Total Users of Portions	(59)
	Ŀ
	100.0
Think customers like portions better Customers order - seem to like them	24.8 14.9
Uniform controlled servings - always the same amount Taste better - like flavor Attractive - eye appealing All others	7.9 2.0 1.0 3.0
Think customers like portions less Lack flavor - not as tasty Portions too small Customers don't order - ask for them Poor quality - can't tell what is in them Don't know - no answer	6.9 3.0 3.0 2.0 1.0 1.0
Think customers like portions about the same	65.3
Don't know	3.0

*Denotes that percentages might add to more than the total because of more than one reply to a question.

AVERAGE WEIGHT OF PORTIONS AND AVERAGE NUMBER

OF SERVINGS PER PACKAGE

Total users of portions, November, 1958	59
Average weight of package of portions, in pounds	5.9
Average number of servings per package	22.8
Average weight of individual servings, in ounces	4.1
Average weight of individual portions, in ounces	7.8

Note: Average weight of portions does not equal average weight of individual servings since some operators obtained more than one serving from a portion, while other operators used more than one portion for a serving. Table 26

SATISFACTION WITH THE SIZE OF

PORTIONS IN A PACKAGE

	Total
Total Users of Portions	(59)
	Z
	100.0
Satisfied	96.0
Dissatisfied	4.0

PERCENTAGE OF PORTIONS SERVED FRIED, BROILED, BAKED, AND IN OTHER WAYS

	Total		Total
Total Users of Portions	(59)	Total Users of Portions	(59)
	<u>%</u>		<u>%</u>
	100.0		100.0
Establishments Serving Fried None fried 1 - 14% 15 - 34% 35 - 64% 65 - 84% Over 84% Average percentage served	8.9 2.0 2.0 3.0 84.1 81.5	Establishments Serving Baked None baked 1 - 14% 15 - 34% 35 - 64% 65 - 84% Over 84% Average percentage served	93.0 1.0 1.0 5.0 5.3
Establishments Serving Broiled None broiled 1 - 14% 15 - 34% 35 - 64% 65 - 84% Over 84%	93.0 3.0 1.0 2.0 - 1.0	Establishments Serving in Other Ways None in other ways 1 - 14% 15 - 34% 35 - 64% 65 - 84% Over 84%	97.0 - - 3.0
Average percentage served	2.4	Average percentage served	2.7

Table 29	
COST OF USING PORTIONS, AS COMPARED TO OTHER FROZEN PROC	ESSED FISH
AND REASONS WHY PORTIONS ARE THOUGHT MORE OR LESS EXP	ENSIVE
	Total
Total Users of Portion	
	%
	100.0
Say portions more expensive Cost is more for amount of serving	<u>9.9</u> 5.9
Price includes processing and packaging - preprepa- ration would tend to raise cost	4.0
Portions less expensive Cuts cost of preparation	<u>50.5</u> *
Labor saving - requires no preparation Time saving	18.8 15.9
Uniform controlled servings Less or no waste	13.9 7.9
No spoilage - can keep in freezer, can keep until ready to use	1.0
Goes further - more servings from package Don't know - no answer	1.0 2.0
About the same	33.7
Don't know	5.9

DO ESTABLISHMENTS COOK PORTIONS

WHILE STILL FROZEN?

	Total
Total Users of Portions	(59)
	<u>%</u>
	100.0
Yes, cook while frozen	83.2
No, do not cook while frozen	16.8

*Denotes that percentages might add to more than the total because of more than one reply to a question.

WOULD THE ESTABLISHMENTS LIKE TO HAVE OTHER PORTION

CONTROLLED SEA FOOD ITEMS NOT NOW AVAILABLE?

	Total Users of Frozen	Total
	Processed Sea Food	(181)
		É
		100.0
Yes, would like othe	er items	2.9
No, would not like o	other items	94.9
Don't know		1.9
No answer		•3

Table 30

WHEN ORDERING PORTIONS FROM SUPPLIERS,

DO ESTABLISHMENTS SPECIFY

THE KIND OF FISH?

	Total
Total Users of Portions	(59)
	Z
	100.0
Specify kind of fish	75.2
Do not specify kind of fish	24.8

.

	Total		
Total Establishments Using Frozen Processed Sea Food, but Not Portions	(122)	WAS PRICE A REASON ESTABLISHMENT'S	
Sea Food, but Not For LIGHS		DID NOT BUY PORTIONS?	
	<u>%</u>		
	100.0*		
No particular reason - just didn't	34.0		
Use fresh fish - prefer fresh fish	16.5		Total
Sell, serve little or no fish - no demand, calls for it	16.0		
Serve other types - perch, shrimp, halibut, etc., other	10 7	Total Nonusers Who Did	
types more popular Quality not as good - doesn't meet our quality standards,	13.7	Not Volunteer	(22.22)
can't tell what is in it	9.9	Price as a Reason	(117)
Prefer to prepare own - rather bread my own, do not like way	2.2		K
it must be cooked, prefer own methods	7.1		<u></u>
· *	·		100.0
Size of portions - prefer to cut own portions, want larger			
portions, get more with other kinds	6.6	Yes, price was a reason	3.4
Too expensive - cheaper to use fresh fish, cheaper to	1.0		
prepare ourselves	4.2	No, price was not a reason	95.6
Dislike flavor - fresh fish has more flavor, no taste to portion controlled sea foods	3.8		
Company makes the rules - policy against it	2.8	No answer	1.0
Don't like them so wouldn't serve them	1.9	NO 012401	1.0
Not attractive - not eye appealing	1.9		
Didn't know it was available	1.4		
All others	2.8		
Don't know, no answer	•5		

Table 32

REASONS ESTABLISHMENTS DID NOT BUY PORTIONS DURING NOVEMBER, 1958

*Denotes that percentages might add to more than the total because of more than one reply to a question.

TYPES OF SUPPLIER PROVIDING FROZEN PROCESSED SEA FOOD TO ESTABLISHMENTS

According to Sales Volume

	Total	Less Than \$10,000	\$10,000- 39,999	\$40,000- 	\$100,000 and Over
Total Users of Frozen Processed Sea Food	(181)	(52)	(59)	(35)	(35)
	<u>%</u>	\$	<u>%</u>	<u>%</u>	<u>%</u>
	100.0*	100.0	100.0	100.0	100.0
Sea food processors	3.2	1.2	.9	5.0	8.1
Sea food wholesalers	57.5	68.2	59.4	55.0	41.9
Frozen food distributors	33.5	10.6	37.8	35.0	56.5
All other, grocery stores, supermarkets	6.7	18.8	1.9	3.3	1.6
No answer	2.6	2.4	-	5.0	4.8

*Denotes that percentages might add to more than the total because of more than one reply to a question.

DISTANCE OF ESTABLISHMENT FROM MAIN SUPPLIER OF FROZEN PROCESSED SEA FOOD

According to Location

	Total	Out of Central Business District	In Central Business District
Total Users of Frozen Processed Sea Food	(181)	(151)	(30)
	<u>%</u>	<u>%</u>	ž
	100.0	100.0	100.0
Less than 10 miles	65.2	58.3	94.9
10 - 50 miles	9.3	11.4	-
51 - 100 miles	-	-	-
More than 100 miles	-	-	-
Don't know	25.2	29.9	5.1
No answer	• 3	.4	-

FREQUENCY OF DELIVERIES OF FROZEN PROCESSED SEA FOOD

			Establishment	<u></u>	Sales	Volume	
	Total	Public Eating Places	Institutions	Less Than \$10,000	\$10,000- 39,999	\$ ¹ +0,000- 99,999	\$100,000 and Over
Total Users of Frozen Processed Sea Food	(181)	(102)	(79)	(52)	(59)	(35)	(35)
	<u>%</u>	Z	Ź	Z	<u>%</u>	Z	<u>%</u>
	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Every day	10.5	14.8	1.9	3.5	11.3	11.7	17.8
2 - 4 times per week	19.8	27.8	3.8	10.6	14.2	25.0	37.1
Once a week	55+3	42.6	80.8	65.9	56.6	51.7	41.9
2 - 3 times per month	5.8	7.2	2.9	8.2	6.6	5.0	1.6
Once a month	4.5	3+3	6.8	7.1	4.7	5.0	-
Less than once a month	3.8	3.8	3.8	4.7	6.6	1.6	-
Don't know, no answer	• 3	•5	-	-	-	-	1.6

CAN SUPPLIERS OF FROZEN PROCESSED SEA FOOD IMPROVE SERVICES TO ESTABLISHMENTS?

According to Sales Volume

	Total	Less Than \$10,000	\$10,000- <u>39,999</u>	\$40,000~ 99,999	\$100,000 and Over
Total Users of Frozen Processed Sea Food	(181)	(52)	(59)	(35)	(35)
	Z	Ľ	<u>%</u>	<u>%</u>	<u>%</u>
	100.0	100.0	100.0	100.0	100.0
Yes, can improve services	5.8	8.2	4.7	1.7	8.1
No, cannot improve services	93.9	91.8	95.3	98.3	90.3
No answer	• 3	-	-	-	1.6

1

AMOUNT SPENT FOR FROZEN PROCESSED SEA FOOD DURING PRECEDING TWELVE MONTHS

According to Sales Volume

	Total	Less Than \$10,000	\$10,000- <u>39,999</u>	\$40,000- 99,999	\$100,000 and Over
Total Users of Frozen Processed Sea Food	(181)	(52)	(59)	(35)	(35)
	É	尨	<u>%</u>	L	É
	100.0	100.0	100.0	100.0	100.0
Spent under \$250 \$250 - 499 \$500 - 999 \$1,000 - 2,499	41.1 16.6 18.6 9.9	72.7 6.1 18.2	43.4 25.0 23.3 8.3	28.6 21.4 14.3 25.0	13.3 6.7 13.3 10.0
\$2,500 - 4,999 \$5,000 - 9,999 \$10,000 - 14,999 \$15,000 - 29,999	6.6 4.6 1.3 -	3.0 - - -	- - -	10.7 - -	20.0 23.3 6.7
\$30,000 - 49,999 \$50,000 - 99,999 \$100,000 and over	1.3 - -	- -	- -	-	6.7 - -

PROFITABILITY TO ESTABLISHMENTS OF FROZEN PROCESSED SEA FOOD AND OTHER HIGH PROTEIN FOODS

According to Sales Volume

	Total	Less Than \$10,000	\$10,000- <u>39,999</u>	\$40,000- 99,999	\$100,000 and Over
Total Users of Frozen Processed Sea Food	(181)	(52)	(59)	(35)	(35)
	Ŀ	Ľ	L	Z	<u>%</u>
	100.0*	100.0	100.0	100.0	100.0
Say sea food more profitable than other high protein foods	32.3	20.0	36.7	33.3	40.4
Say beef more profitable than sea food	3-5	4.7	4.7	3.3	-
Say all foods the same in profitability	3.2	2.4	-	-	12.9
Say meat (unspecified) more profitable than sea food	2.6	-	7.5	-	-
Say chicken more profitable than sea food	2.2	3.5	-	3.3	3.2
Say miscellaneous other foods more profitable than sea food	3.5	1.2	5.7	-	6.5
Nonprofit establishments	28.4	44.7	25.5	21.7	17.7
Don't know	19.2	20.0	14.2	31.7	14.5
No answer	5.8	3.5	5.7	10.0	4.8

*Denotes that percentages might add to more than the total because of more than one reply to a question.

DO THE ESTABLISHMENTS KNOW THEY CAN BUY GOVERNMENT

INSPECTED OR GRADED FROZEN PROCESSED SEA FOOD?

According to Type of Establishment

Table 40

DO THE ESTABLISHMENTS BUY GOVERNMENT INSPECTED OR

GRADED FROZEN PROCESSED SEA FOOD?

According to Type of Establishment

Total Establishments Knowing Government Inspected or	Total	Public Eating Places	Institutions
Graded Frozen Processed Sea Food Was Available	(168)	(91)	(77)
	Ľ	Ŀ	Ľ
	100.0	100.0	100.0
Yes, do buy	97.9	96.8	100.0
No, do not buy	-	-	-
No answer	2.1	3.2	-

	Total	Public Eating Places	Institutions
Total Users of Frozen Processed Sea Food	(181)	(102)	(79)
	Z	<u> %</u>	Ž
	100.0	100.0	100.0
Yes, know they can	92.3	89.5	98.1
No, do not know they can	7.4	10.0	1.9
No answer	• 3	• 5	-

	Total	Public Eating Places	Institutions
Total Purchasers of Government Inspected or Graded Sea Food	(166)	(89)	(77)
	<u>¢</u>	<u>%</u>	<u>%</u>
	100.0*	100.0	100.0
Government inspected foods are safe - pure, fresh, clean, no germs or disease Best quality - use better products, more	55.1	42.0	78.4
uniform quality Only type available - it's all inspected,	40.3	53.6	16.7
that's what supplier carried Prefer Government inspected - wouldn't	8.8	12.2	2.9
buy any other	4.6	6.6	1.0
Company demands that it's bought Public demands it Easy to handle - easy to serve, ready to	3.9 1.8	3•3 2.8	4.9
cook, portion controlled Government/law requires it	1.4 1.1	2.2 1.7	-
All others	2.1	2.2	2.0
Don't know, no answer	1.1	1.7	-

REASONS ESTABLISHMENTS BUY GOVERNMENT INSPECTED OR GRADED FROZEN PROCESSED SEA FOOD

According to Type of Establishment

Table 41

*Denotes that percentages might add to more than the total because of more than one reply to a question.

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HAS GOVERNMENT INSPECTION AFFECTED THE AMOUNT OF FROZEN

PROCESSED SEA FOOD BOUGHT BY THE ESTABLISHMENT?

According to Type of Establishment

Table 43

IF GOVERNMENT INSPECTED OR GRADED FROZEN PROCESSED SEA FOOD WERE AVAILABLE WOULD THE ESTABLISHMENT BUY MORE OR LESS?

Total Users of Government	Total	Public Eating Places	Institutions
Inspected Frozen Processei Sea Foos	(166)	(89)	(77)
	<u>%</u>	<u> </u>	<u>%</u>
	100.0	100.0	100.0
Buy more	4.9	6.1	2.9
Buy about the same	92.2	90.6	95.1
Buy less	-	-	-
Don't know	. <u>1</u> .	-	1.0
No answer	2.5	3.3	1.0

TABLE 43 HAS BEEN OMITTED AS TOO FEW ESTABLISHMENTS QUALIFIED TO RESPOND.

rable 44

PREVIOUS USE OF FROZEN PROCESSED SEA FOOD BY NONUSERS AND

REASONS FOR STOPPING USE OR FOR NEVER USING

According to Sales Volume

	Total	Less Than \$4 0, 000	\$40,000 and Over
Total Nonusers of Frozen Processed Sea Food	(107)	(81)	(26)
	Z	<u>g</u>	<u>%</u>
	100.0	100.0	100.0
Have served frozen processed sea food before	<u>9.4</u> *	7.6	15.1
Lacked flavor - own prepared fish has better flavor	3.6	2.4	7.5
No demand - didn't sell enough, no volume, customers prefer other foods More expensive than other forms of fish	3.1 2.2 .4	2.4 1.2 .6	5.7 5.7
Prefer to serve fresh fish All others	1.3	1.8	-
Have not served frozen processed sea food before	90.6*	<u>92.4</u>	84.9
Sell little or no fish - no demand, call for it, not in that business	42.6	44.7	35.8
Use fresh fish - prefer to serve fresh fish, fresh fish available all year	25.6	27.6	18.9
Too expensive - cheaper to use fresh, prepare ourselves	6.3	4.1	13.2
Unable to handle preparation - no equipment, not enough room, no time, would need extra help Like taste, freshness of fresh fish - don't trust	4.9	4,1	7.5
frozen food, fresh fish tastes better, some frozen is kent too long No stor.ge facilities - no freezer	4,0 1,8	4.1 2.4	3.8
Law doesn't allow - don't have license, license costs too much	1.8	2.4	-
All others Don't know, no answer	5.4	4.7	7.5

*Denotes that percentages might add to more than the total because of more than one reply to a question.

DO ESTABLISHMENTS HAVE COLD STORAGE FACILITIES FOR KEEPING FROZEN PROCESSED SEA FOOD?

		Type of Establishment					
	Total	Public Eating Places	Institutions	Less Than \$10,000	\$10,000- <u>39,999</u>	\$40,000- 99,000	\$100,000 and Over
Total Establishments	(288)	(196)	(92)	(101)	(91)	(44)	(52)
	%	Ŀ	<u>%</u>	<u> </u>	Ŀ	<u>¢</u>	<u>L</u>
	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Yes, have cold storage facilities	81.4	77.6	94.9	73.3	82.3	94.7	85.0
No, do not have cold storage facilities	17.9	21.4	5.1	26.7	16.5	5.3	13.0
No answer	.7	1.0	-	-	1.2	-	2.0
Average capacity, in cubic feet	69.1	70.5	65.1	33.8	35.4	59.6	204.3

DO ESTABLISHMENTS HAVE COLD STORAGE FACILITIES FOR KEEPING FROZEN PROCESSED SEA FOODS?

According to Nonusers of Sea Food and Users Not Using Frozen Processed Sea Food

Total Nonusers of Frozen Processed Sea Food	<u>Total</u> (107)	Nonusers of Sea Food	Users Not Using Frozen Processed Sea Food
	Ľ	<u>L</u>	L
	100.0	40.8	59.2
Yes, have cold storage facilities	65.9	19.7	46.2
No, do not have cold storage facilities	34.1	21.1	13.0

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DISTRIBUTION OF SAMPLE

(Tables a through i contain classification data regarding operations of the establishments)

Table a

TOTAL RECEIPTS FROM MEALS SERVED DURING 1957 OR LAST FISCAL YEAR

According to Type of Establishment

	Total.	Public Eating Places	Institutions
Total Establishments	(288)	(196)	(92)
	Z	Ž	ž
Total Receipts	100.0	100.0	100.0
Less than \$10,000	35.6	34.2	41.0
\$10,000 - 39,999	31.7	32.9	27.4
\$40,000 - 99,999	14.0	13.6	15.4
\$100,000 and over	18.7	19.3	16.2

Table b

AMOUNT ESTABLISHMENTS SPENT FOR FOOD DURING PREVIOUS TWELVE MONTHS

		Type of 1	Type of Establishment		Sales Volume			
	Total	Public Eating Places	Institutions	Less Than \$10,000	\$10,000- 39,999	\$40,000- 99,999	\$100,000 and Over	
Total Establishments	(288)	(196)	(92)	(101)	(91)	(44)	(52)	
	<u>96</u>	<u>%</u>	Ź	<u>%</u>	<u>%</u>	<u>%</u>	Z	
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
Spent under \$1,000 \$1,000 - 2,499 \$2,500 - 4,999 \$5,000 - 9,999 \$10,000 - 14,999	6.8 27.3 7.4 7.1 9.9	9.8 9.0 8.6 9.0 12.7	67.3 4.7 2.8 3.7	20.7 46.8 10.9 10.9 2.8	20.9 11.7 9.1 22.7	18.7 4.2 8.3	12.5 2.8	
\$15,000 - 29,999 \$30,000 - 49,999 \$50,000 - 99,999 \$100,000 - 249,999 \$250,000 and over	14.9 7.9 8.8 7.9 2.0	18.8 9.0 11.1 9.8 2.2	6.6 5.6 3.7 3.7 1.9	1.7 .9 3.6 1.7	24.6 8.2 .9 1.9	35.5 25.0 8.3 -	6.9 6.9 29.2 32.0 9.7	

Table c

PERCENTAGE OF TOTAL OPERATING COST SPENT FOR FOOD IN PREVIOUS TWELVE MONTHS

		Type of Establishment		Sales Volume			
	Total	Public Eating Places	Institutions	Less Than \$10,000	\$10,000- <u>39,999</u>	\$40,000- 	\$100,000 and Over
Total Establishments	(288)	(196)	(92)	(101)	(91)	(44)	(52)
	Ź	É	Ź	k	É	É	É
	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Spent under 5% for food 5 - 14% 15 - 24% 25 - 34%	2.3 1.9 3.5 16.7	2.2 1.3 2.6 17.2	3.9 7.7 11.5 11.5	8.0 6.7 4.0 29.3	6.1 18.3	2.4	10.1
35 - 44 % 45 - 54 % 55 - 64 % 65 - 74 %	24.8 27.5 12.0 4.3	26.3 28.0 11.2 4.3	11.5 23.1 19.2 3.9	16.0 16.0 6.7 5.3	19.5 26.8 14.7 2.4	26.2 38.1 2 3.7 4.8	42.4 35.6 6.8 5.1
75 - 84 % 85 - 94 % 95 - 100 %	3•5 3•5 -	3.9 3.0 -	7.7	6.7 1.3	2.4 9.8 -	4.8 - -	-

Table d

AVERAGE NUMBER OF MEALS SERVED BY ESTABLISHMENTS

According to Type of Establishment and Sales Volume

		Type of Establishment			Sales Volume			
	Total	Public Eating Places	Institutions	Less Than \$10,000	\$10,000- <u>39,999</u>	\$40,000- 99,999	\$100,000 and Over	
Total Establishments	288	196	<u>92</u>	101	<u>91</u>	44	<u>52</u>	
Average Number of Main Meals Served								
Midday, weekdays	206	130	467	134	139	188	480	
Sea food meals	30	20	63	19	17	26	76	
Midday, Saturdays and Sundays	104	110	88	24	42	80	383	
Sea food meals	11	14	**	1	4	10	43	
Evening, weekdays	77	80	65	21	36	65	265	
Sea food meals	9	10	7	5	6	6	28	
Evening, Saturdays and Sundays	89	100	51	22	43	71	308	
Sea food meals	10	13	-	2	5	5	43	

** Less than one half meal.

Table e

AVERAGE PRICE PER MEAL SERVED

According to Type of Establishment and Sales Volume

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		Type of	Type of Establishment		Sales Volume			
	Total	Public Eating Places	Institutions	Less Than \$10,000	\$10,000- <u>39,999</u>	\$40,000- 	\$100,000 and Over	
Total Establishments	(288)	(196)	(92)	(101)	(91)	(44)	(52)	
	Z	Y.	<u>¢</u>	Ľ	<u>%</u>	<u>1</u>	Ľ	
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
1 397 \$.25 \$.2549 \$.5074 \$.7599	13.1 7.5 19.0 30.0	8.6 22.4 37.7	59-8 3.4 6.8 1.7	16.8 9.4 20.4 25.7	12.4 7.1 21.8 41.2	9.3 9.3 21.3 26.8	10.0 3.0 10.0 21.0	
1.00 - 1.49 	9.3 2.4 .7 1.3	11.2 3.1 1.0 1.7	2.6 - -	4.7 - - 5	2.3 2.3 2.3 3.5	21.3 - - -	21.0 9.0 -	
\$3.00 - 3.99 \$4.00 - 4.99 \$5.00 and over	3.0 .7 -	3.8 1.0 -	- - -	6.3 •5	-	- -	4.0 3.0 -	
No answer	8.0	9•5	2.6	11.0	2.3	4.0	15.0	
Nonprofit establishment	5.0	-	23.1	4.7	4.8	8.0	4.0	

Table f

NUMBER OF REGULAR EMPLOYEES ENGAGED IN PREPARING AND SERVING FOOD

According to Sales Volume

	<u>Total</u>	Less Than \$10,000	\$10,000- 	\$40,000- 99,999	\$100,000 and Over
Total establishments	288	101	91	հեր	52
Average number per establishment	10	ц.	5	10	30

Table g

SEATING CAPACITY OF ESTABLISHMENTS

		Type of Establishment	Sales Volume				
	Total	Public Eating Places Institutions	Less Than \$10,000	\$10,000- 39,999	\$40,000- 99,999	\$100,000 and Over	
Total establishments	288	196 92	101	91	<u>li</u> h	52	
Average seating capacity, in seats	149	82 389	132	122	130	245	

Table h

DAYS OF THE WEEK ON WHICH ESTABLISHMENTS SERVE MEALS

		Type of Public	Type of Establishment		Sales Volume			
	Total	Eating Places	Institutions	Less Than \$10,000	\$10,000- <u>39,999</u>	\$40,000- 99,999	\$100,000 and Over	
Establishments	(288)	(196)	(92)	(101)	(91)	(44)	(52)	
	<u>¢</u>	ž	Z	Z	¢	<u>%</u>	ž	
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
Serve on 7 days	52.4	60.1	24.8	51.4	48.2	49.3	64.0	
Serve on 6 days	25.0	30.8	4.3	23.0	28.8	28.0	20.0	
So ve on 5 days	20.9	6.9	70.9	23.0	23.0	22.7	12.0	
Serve on less than 5 days	•9	1.2	-	2.6	-	-	-	
No answer	. 8	1.0	-	-	-	-	4.0	

Table i

PERCENTAGE OF ESTABLISHMENTS SERVING SPECIALIZED TYPES OF FOOD

According to Sales Volume

	<u>Total</u>	Less Than \$10,000	\$10,000- <u>39,999</u>	\$40,000- _99,999	\$100,000 and
Total Establishments	(288)	(101)	(91)	(44)	(52)
	Z	%	ž	₿¢	<u>%</u>
	100.0	100.0	100.0	100.0	100.0
Establishments with no specialty	81.5	83.2	80.6	89.3	74.0
Establishments with specialty	<u>18.5</u> *	16.8	<u>19.4</u>	<u>10.7</u>	26.0
Barbecue Chicken specialty Mexican, Spanish Steak or chophouse	4.9 4.1 3.0 2.4	4.2 5.2 3.1 2.1	4.1 5.3 4.7 2.9	2.7 4.0 - -	9.0 _ 2.0 4.0
Sea food Italian food Kosher Chinese food	2.2 2.1 .6 .7	1.6 1.6 -	1.2 1.2	- 4.0 -	9.0 6.0 2.0
All others	.2	.5	-	-	-

*Denotes that percentages might add to more than the total because of more than one reply to a question.



