

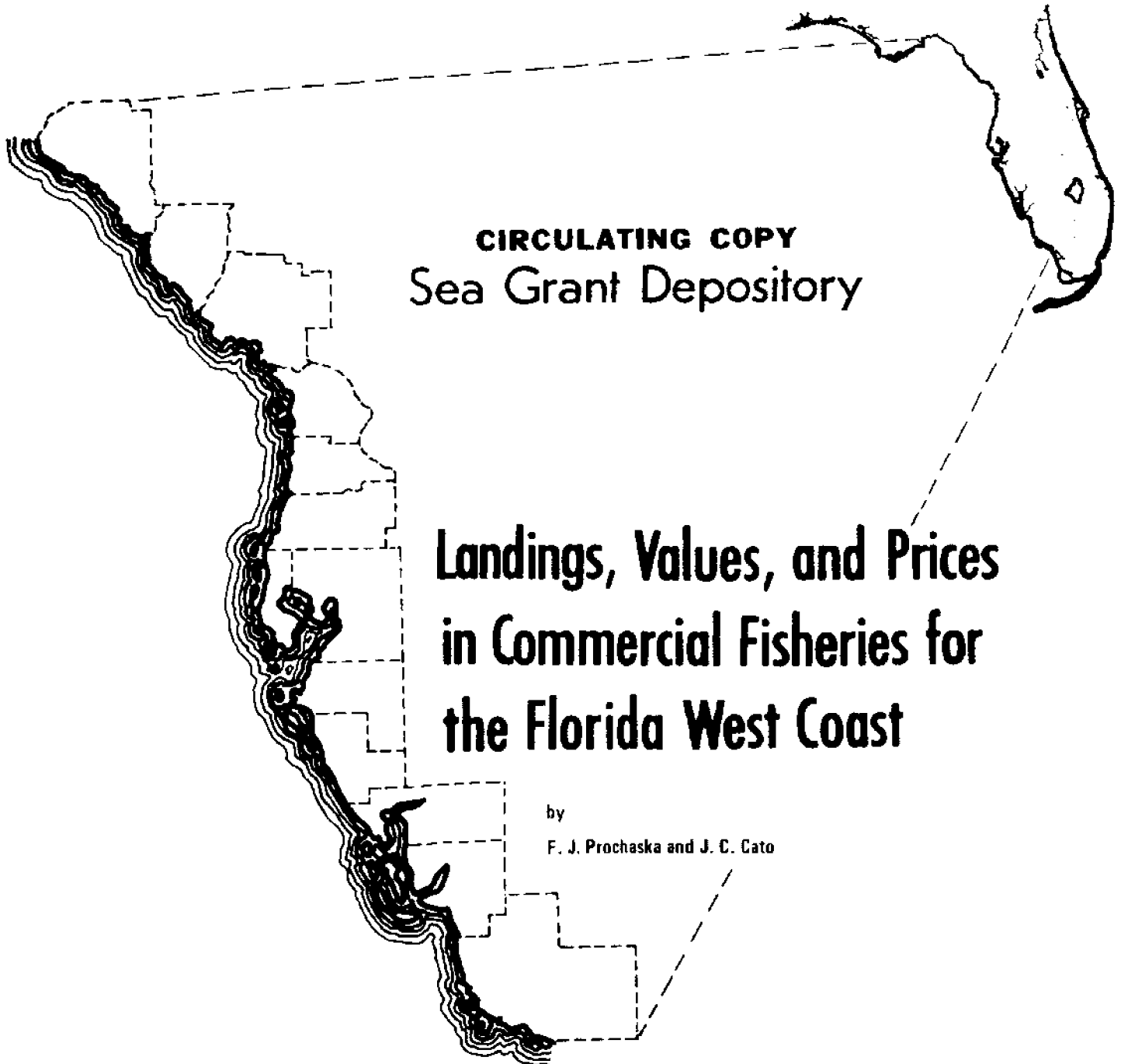


# Marine Advisory Program

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## **Landings, Values, and Prices in Commercial Fisheries for the Florida West Coast**

by  
F. J. Prochaska and J. C. Cato

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This public document was promulgated at a cost of \$495.15, or 50 cents per copy, to provide current economics facts to persons interested in the commercial fishing industry of Florida.

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## FOREWORD

This is the second in a series of four similar bulletins that will cover the entire state. The two remaining bulletins are planned for the East Coast and Panhandle sections of Florida. The first bulletin (SUSF-SG-74-004) covered the Florida Keys.

This bulletin is intended to inform commercial fishermen, industry groups, trade associations, county Cooperative Extension Service personnel, researchers, and government officials of the importance of commercial fisheries along the lower West Coast of Florida and of annual changes in landings, values, and prices in the region for the past twenty years. It does not include an in-depth analysis of reasons underlying the changes nor of the additional impact of fisheries in processing and marketing of fishery products. This type analysis will be included in later work. Future analyses will also include information on the number and size of firms, description of marketing channels, and types of marketing firms and services provided.

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TRENDS IN LANDINGS, VALUES, AND PRICES  
IN COMMERCIAL FISHERIES FOR THE FLORIDA WEST COAST

James C. Cato and Fred J. Prochaska

INTRODUCTION

The West Coast of Florida represents a region that provides a major percentage of the state's total production of several fishery products. Counties included in the West Coast for this analysis were Charlotte, Citrus, Collier, Dixie, Hernando, Hillsborough, Lee, Levy, Manatee, Pasco, Pinellas, Sarasota, and Taylor.

Landings in the thirteen-county area have varied substantially since 1952. Landings have ranged from a maximum of slightly larger than 75 million pounds in 1965 to a minimum of 50.6 million in 1972. The overall trend in the region was upward with some annual fluctuations until 1965 when a substantial downward trend occurred (Table 1). Average landings from 1952-56 to 1960-64 (middle 5 years of period) increased 11 percent. Average annual landings for the 1968-72 period were then 20 percent below 1960-64 landings and 11 percent below 1952-56 average landings. State landings have also shown a decline during the last five years. The West Coast region has landed slightly more than 28 percent of the state total for the last three years. This also is down from a previous high of almost 40 percent (1957 and 1958). Percentages of the state total have normally ranged in the mid to low thirties.

Total value of landings on the West Coast has not changed substantially since 1960 although landings have declined (Table 1). Although total landings were lower in 1972 than in any other year included in this analysis, total value of the landings was the highest at slightly over \$14.6 million. This represented 25.7 of the state total dockside value. The percentage of the state value of landings represented in the region has declined steadily from a high of 42.6 percent in 1960. Value data were not collected prior to that time.

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Table 1.--Commercial landings and values of finfish and shellfish in Florida and the Florida West Coast region, 1952-1972.

Year	Florida		Lower West Coast			
	Pounds	Dollars	Pounds	Percent of State	Dollars	Percent of State
1972	179,112,613	57,025,860	50,626,455	28.3	14,656,969	25.7
1971	179,497,155	46,023,872	51,131,855	28.5	11,530,579	25.1
1970	192,698,835	43,264,730	55,344,225	28.7	12,491,532	28.9
1969 <sup>a</sup>	179,877,000	41,603,000	57,930,075	32.2	11,755,062	28.3
1968	190,895,000	39,226,000	57,779,650	30.3	11,520,041	29.4
1967	207,414,000	32,941,000	64,497,528	31.1	10,029,814	30.4
1966	203,604,000	34,400,000	62,907,530	30.9	11,014,654	32.0
1965	211,886,900	35,345,871	75,068,993	35.4	13,145,038	37.2
1964	187,015,400	30,786,547	68,907,658	36.8	11,870,711	38.6
1963	195,721,400	29,049,374	67,711,078	34.6	11,705,387	40.3
1962	197,822,700	32,354,741	66,619,198	33.7	13,759,924	42.5
1961	201,100,200	27,206,971	68,081,923	33.9	10,851,199	39.9
1960	196,945,900	26,828,334	70,351,387	35.7	11,438,849	42.6
1959	212,950,400	23,227,022	66,264,840	31.1		
1958	175,708,800	30,078,719	67,193,012	38.2		
1957 <sup>b</sup>	164,100,400	30,411,987	64,420,862	39.3		
1956	178,176,700	26,221,181	63,474,391	35.6	Not Available	
1955	215,399,700	30,808,625	62,740,733	29.1		
1954	173,686,200	25,244,942	60,669,846	34.9		
1953	209,458,800	31,799,407	66,938,651	32.0		
1952	264,563,700	27,474,875	53,919,759	20.4		

<sup>a</sup>Hernando County not included.

<sup>b</sup>Taylor County not included.

Source: Computed from [1].

### IMPORTANT SPECIES IN WEST COAST REGION

The West Coast fishery contributes a major proportion of many species of finfish and shellfish landed in Florida. Finfish landings in the region averaged 36 million pounds for the last three years and represented 30.3 percent of Florida landings (Table 2). Shellfish landings averaged 16.3 million pounds for 25.2 percent of the state total. Total landings were 52.4 million pounds which represented 28.5 percent of all landings in the state.

Eight species landed in the region represented over 50 percent of all landings of those species in the state. Grunt landings represented 75.5 percent of the state total although only .27 million pounds were landed (Table 2). The most important product was black mullet with 19.1 million pounds reported. This represented 71.5 percent of the state total. Pompano and grouper landings accounted for 69.5 and 68.3 percent of all landings in the state, respectively. Spotted sea trout, stone crabs, jack crevalle, and sponge landings represented 58.3, 54.1, 54.0, and 50.2 percent of state landings, respectively, with the volumes in total pounds produced shown in Table 2. Ten other species landed in the region represented between 20 and 50 percent of total state landings. Black mullet, blue crab, shrimp, and grouper represented the largest number of pounds landed with black mullet landings being the largest at over 19 million pounds. The addition of Spanish mackerel, spotted sea trout, and king mackerel to the previous four species represents 82.5 percent of the regional total.

Average total value of landings for the latest three-year period, 1970-72, was \$12.9 million (Table 2). This was 26.5 percent of the state's total. Shrimp was the most valuable species landed at \$5.2 million. Black mullet, grouper, and pompano were next at \$1.6, \$1.1 and \$.95 million, respectively. Although finfish landings were more than twice as large in volume as shellfish landings, the dockside value of shellfish was slightly over \$7.0 million as compared to finfish at \$5.9 million (Table 2).

### TRENDS IN LANDINGS, VALUES, AND PRICES BY COUNTY

Based on the average for the last three years, Lee County landed the largest percentage (30.8) of all counties in the lower West Coast region. Manatee, Pinellas, and Collier Counties landed 12.3, 10.9, and 10.1 percent, respectively. The remaining counties ranged from 8.4 percent in Citrus County to a low of 1.3 percent in Pasco and Hernando Counties combined. Four counties were combined into two groups for reporting purposes. Dixie and Taylor Counties were combined as were Pasco and Hernando. The relative importance of each county in pounds and value is shown in Figure 1.

Only three counties were responsible for a larger percentage in value of landings for the region than they were for pounds landed. The value of Lee County landings averaged 39.6 percent of the regional

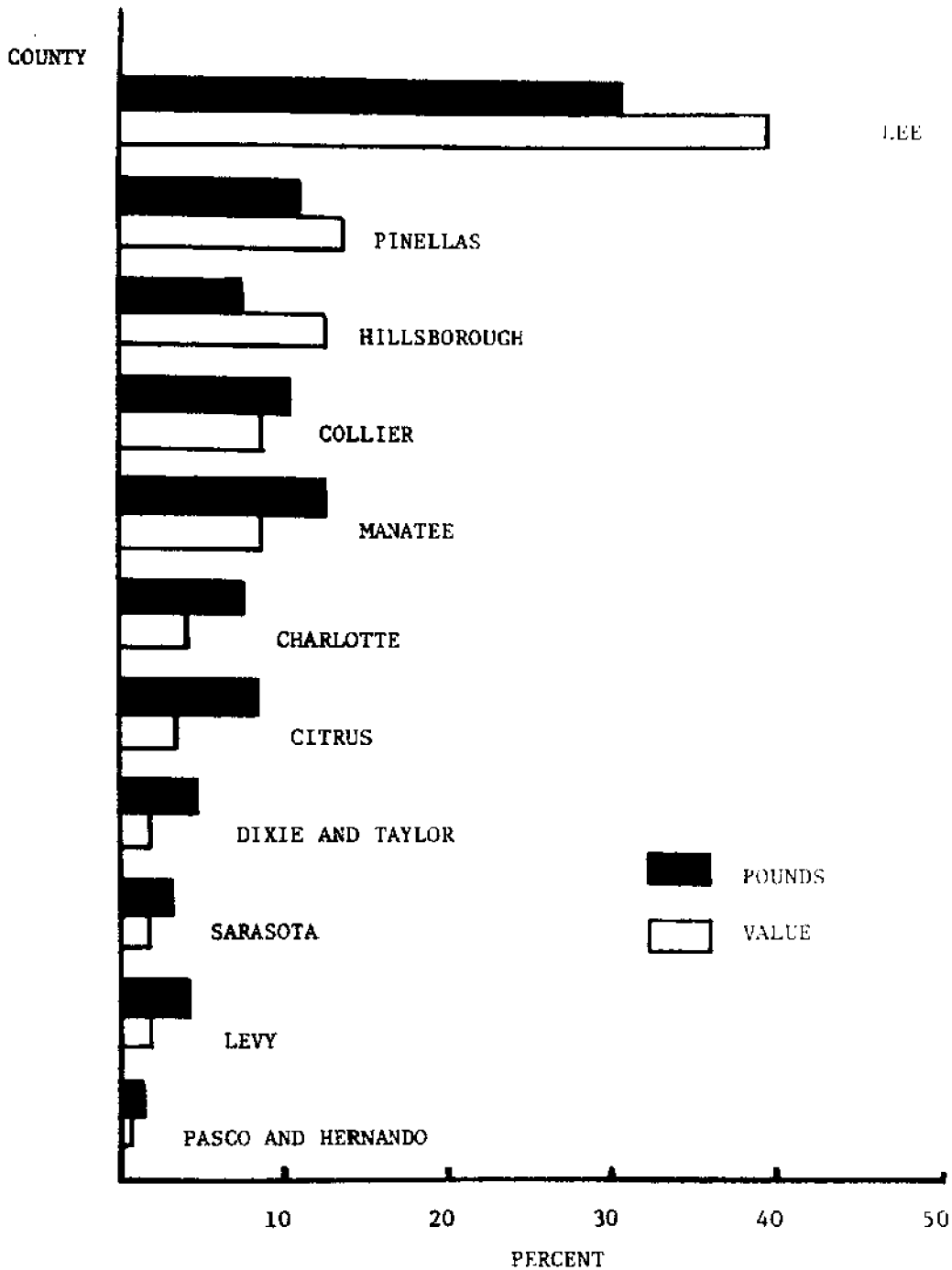


Figure 1. Relative share of West Coast landings in pounds and dollars for each county, three-year average, 1970-72.

Table 2.--Commercial landings and value of important species of finfish and shellfish in Florida and the Florida Lower West Coast Region, three-year average, 1970-72

Species <sup>a</sup>	Florida		Lower West Coast			
	Pounds	Dollars	Pounds	Percent of State	Dollars	Percent of State
Bluefish	2,406,075	264,395	166,153	6.9	20,496	7.8
Crevalle (Jack)	781,652	28,458	422,228	54.0	17,396	61.1
Flounder	491,513	131,166	81,639	16.6	12,572	9.6
Grouper	7,182,874	1,580,020	4,908,376	68.3	1,078,044	68.3
Grunt	353,741	50,599	267,192	75.5	41,388	81.8
King Mackerel	5,740,488	1,311,119	1,389,566	24.2	94,170	7.2
Mennaden	23,707,257	341,854	205,295	.9	9,766	2.9
Black Mullet	26,650,608	2,326,195	19,062,447	71.5	1,635,802	70.3
Silver Mullet	763,402	72,834	258,518	33.8	19,008	26.1
Pompano	1,101,585	1,369,013	765,647	69.5	948,084	69.3
Redfish (Red Drum)	8,596,658	153,692	676,685	7.9	117,622	76.5
Sea Bass	215,461	41,089	104,071	48.3	12,740	31.0
Spotted Sea Trout	2,861,280	925,566	1,666,846	58.3	534,533	57.8
Sheepshead	505,038	57,201	215,160	42.6	18,213	31.8
Red Snapper	4,291,874	2,640,109	747,344	17.4	549,987	20.8
Spanish Mackerel	10,513,564	1,258,856	2,375,112	22.6	294,836	23.4
Spot	2,385,713	371,141	148,658	6.2	17,583	4.7
Trash Fish	671,269	22,623	242,238	36.1	9,710	42.9
Warsaw	223,954	34,231	66,550	29.7	9,552	27.9
Other Finfish	19,700,224	12,981,161	2,309,768	11.7	468,926	3.6
Total Finfish	119,144,230	17,766,336	36,079,493	30.3	5,910,428	33.3
Blue Crab	20,312,179	1,719,479	6,702,403	33.0	630,940	36.7
Stone Crab	1,782,423	980,384	964,335	54.1	500,959	51.1
Spiny Lobster	9,830,682	8,248,813	695,543	7.1	462,256	5.6
Oyster	3,618,144	1,605,493	83,762	2.3	41,699	2.6
Bay Scallop	62,508	45,409	15,077	24.1	7,372	16.2
Shrimp (Heads-on)	27,999,759	17,702,180	7,100,671	25.4	5,191,300	29.3
Sponges	39,414	236,890	19,782	50.2	178,202	75.2
Other Shellfish	980,195	466,503	706,446	68.3	15,890	3.4
Total Shellfish <sup>b</sup>	64,625,304	31,095,151	16,288,019	25.2	7,028,618	22.7
Grand Total	183,769,534	48,771,487	52,367,512	28.5	12,939,046	26.5

<sup>a</sup>Other species are important in other regions of the State.

<sup>b</sup>All shellfish weights reported in this bulletin are round weights except oysters.

Source: Computed from [1].

total while Pinellas and Hillsborough averaged 11.8 and 11.1 percent, respectively. The larger percentage in value than in pounds in these three counties was due to higher valued shrimp landings.

#### Charlotte County

Landings in Charlotte County since 1952 have ranged from a low of 3.0 million pounds in 1968 to a high of 5.2 million pounds in 1962 (Table 3). Annual fluctuations have been substantial between some years. Generally, landings in the late 1950's and early 1960's were much higher than during the 1969-1971 period. A substantial increase was noted in 1972 resulting primarily from black mullet. Charlotte County normally lands about 2 percent of the state and 7 percent of the lower West Coast total (Table 3). Landings for the last three years have averaged 7.5 percent of the region's total.

Value of landings in Charlotte County represents about 1 percent of the state's and 3 to 4 percent of the region's value (Table 3). Total value of landed products in 1972 was 660 thousand dollars. This was a substantial increase of 200 thousand dollars or 41 percent over the previous year.

Most of the county fluctuations in landings have resulted from finfish. Shellfish landings, which represented an average of 22 percent of county landings in the last three years, have not caused major fluctuations with the exception of several years in the late 1950's. Shellfish landings have ranged from about 600 thousand pounds to a high of slightly over 1.3 million pounds. Finfish landings, which represented 78 percent of county landings the last three years fluctuated from a low of 2.3 million pounds in 1970 to a high of 4.5 million in 1958.

Two species in Charlotte County represented 77.6 percent of landings in 1970-72 but only 47.9 percent of the value of landings (Table 4). Black mullet landings represented 59.3 percent and blue crab 18.3 percent of the total. Both species are relatively low valued. Shrimp landings were only 3.7 percent of the county total but the value was 20.9 percent of the total. Spotted sea trout, pompano and grouper were the only other species of major significance in the county (Table 4).

Black mullet and blue crab landings both represent trends in Charlotte County that are contrary to state wide landings. Black mullet landings have been fairly consistent in the county when compared to the decrease in state landings (Table 5). State-wide black mullet landings in the early 1960's represented major increases from landings in the 1950's. However, landings have fallen rather sharply since the early 1960's with the exception of 1972. Florida landings in 1973 appear to be fairly consistent with 1972. Blue crab landings in the state have also declined after major increases in the decade of the 1960's. Landings in Charlotte County have been more consistent with a slight upward trend noticed.

Table 3.--Commercial landings and values of finfish and shellfish in Charlotte County, 1952-1972

Year	Pounds			Dollars					
	Finfish	Shellfish	Total	Finfish	Shellfish	Total	Percent of State of Region	Percent of State of Region	Percent of Region
1972	4,244,873	605,173	4,850,046	458,923	201,460	660,383	1.2	1.2	3.2
1971	2,525,981	808,073	3,334,054	310,667	157,048	467,715	1.0	1.0	4.1
1970	2,337,378	1,163,121	3,500,499	294,463	152,128	446,701	1.0	1.0	3.6
1969	2,520,662	986,522	3,507,184	308,385	182,715	491,100	1.2	1.2	4.2
1968	2,392,088	613,396	3,005,484	284,326	104,751	389,077	1.0	1.0	3.4
1967	2,659,184	895,706	3,554,890	272,628	125,573	398,201	1.2	1.2	4.0
1966	2,818,692	959,168	3,777,860	273,134	115,134	388,268	1.1	1.1	3.5
1965	2,859,559	982,112	3,841,671	243,759	141,614	385,373	1.1	1.1	2.9
1964	3,198,203	785,030	3,983,233	250,222	86,971	337,193	1.1	1.1	2.8
1963	3,873,800	1,313,597	5,187,397	278,490	110,707	389,197	1.3	1.3	3.3
1962	4,464,198	768,189	5,252,387	323,734	152,018	475,752	1.5	1.5	3.5
1961	4,020,110	739,441	4,759,551	274,014	76,131	350,145	1.3	1.3	3.2
1960	3,545,992	806,866	4,352,858	277,755	58,203	335,958	1.3	1.3	2.9
1959	4,087,435	616,638	4,704,073				2.2		
1958	4,530,811	571,194	5,102,005				2.9		
1957	3,942,123	276,895	4,219,018				2.6		
1956	3,511,658	330,548	3,842,206				2.2		
1955	3,524,082	1,004,063	4,528,145				2.1		
1954	4,237,488	467,160	4,704,648				2.7		
1953	3,784,804	767,827	4,552,631				2.2		
1952	3,286,788	250,236	3,537,024				1.3		

Not Available

Source: Computed from [1].

Table 4.--Commercial landings and value of important species of finfish and shellfish in Charlotte and Citrus Counties, three-year average, 1970-1972

Species	Charlotte				Citrus			
	Pounds	Percent of County	Dollars	Percent of County	Pounds	Percent of County	Dollars	Percent of County
Bluefish	12,583	.3	1,560	.3	7,876	.2	831	.2
Crevalle (Jack)	42,980	1.1	1,211	.2	36,770	.8	1,753	.4
Grouper	143,863	3.7	29,286	5.6	41,438	.9	7,412	1.7
Gruet	0	0.0	0	0.0	36,990	.8	5,481	1.2
Black Mullet	2,305,331	59.3	191,400	36.4	1,079,452	24.5	100,214	22.7
Pompano	30,155	.8	35,497	6.8	1,411	a	1,727	.4
Redfish	83,497	2.1	15,794	3.0	31,997	.7	6,746	1.5
Sea Bass	0	0.0	0	0.0	20,155	.5	2,267	.5
Spotted Sea Trout	128,340	3.3	42,911	8.2	102,340	2.3	29,815	6.7
Sheepshead	31,080	.8	3,108	.6	6,049	.1	737	.2
Spanish Mackerel	93,654	2.4	11,540	2.2	6,386	.1	865	.2
Other Finfish	164,594	4.2	22,377	4.3	68,205	1.5	5,486	1.2
Total Finfish	3,036,077	78.0	354,684	67.6	1,439,069	32.4	163,334	36.9
Blue Crab	714,495	18.3	60,194	11.5	2,946,715	66.4	252,162	56.9
Stone Crab	0	0.0	0	0.0	50,569	1.1	25,386	5.7
Oysters	0	0.0	0	0.0	263	a	119	a
Shrimp (Heads-on)	144,252	3.7	110,036	20.9	0	0.0	0	0.0
Other Shellfish	42	a	19	a	5,029	.1	1,348	.3
Total Shellfish	858,789	22.0	170,249	32.4	3,002,576	67.6	279,015	63.1
Grand Total	3,894,866	100.0	524,933	100.0	4,441,645	100.0	442,349	100.0

<sup>a</sup>Less than .1 percent.

Source: Computed from [1].



Table 5.-- Species landings, values and prices for Charlotte County, 1952-1972

Year	Grouper		Black Mullet		Pompano	
	Pounds	Dollars	Pounds	Dollars	Pounds	Dollars
1970-72						
Average	143,863	29,286	2,305,331	191,400	30,155	35,497
		21.9		8.4		116.8
1972	69,039	19,199	3,591,745	288,776	41,083	49,685
1971	128,290	24,336	1,716,786	147,986	26,353	31,244
1970	234,260	44,322	1,607,461	137,438	23,029	25,562
1969	237,501	44,864	1,722,378	153,636	20,941	20,166
1968	298,971	50,646	1,500,759	122,012	42,114	25,323
1967	338,027	46,580	1,706,666	124,757	26,395	15,021
1966	223,666	27,399	1,956,613	138,920	14,641	9,085
1965	155,875	16,336	2,074,969	124,706	21,457	13,007
1964	87,596	9,408	2,497,551	137,615	32,297	20,044
1963	83,700	8,286	3,040,800	161,162	42,100	29,133
1962	43,244	4,714	3,489,745	184,956	31,877	22,346
1961	75,347	6,781	3,210,315	163,726	29,369	20,209
1960	101,507	11,166	2,695,359	145,550	58,430	36,227
1959	101,371		3,215,318		35,614	
1958	13,342		3,537,083		95,874	
1957	16,601		3,048,281		23,215	
1956	4,280	Not Available	2,740,155	Not Available	24,512	Not Available
1955	11,985		2,604,225		36,430	
1954	128,342		3,043,050		42,043	
1953	89,544		2,713,810		46,068	
1952	65,111		1,935,034		51,578	

Source: Computed from [1].

Table 5.--Species landings, values and prices for Charlotte County, 1952-1972---Continued

Year	Spotted Sea Trout			Blue Crab			Shrimp (Heads-on)		
	Pounds	Dollars	Cents/lb.	Pounds	Dollars	Cents/lb.	Pounds	Dollars	Cents/lb.
1970-72									
Average	128,340	42,911	33.4	714,495	60,194	8.6	144,252	110,036	74.0
1972	133,537	47,191	35.3	423,464	39,128	9.2	181,581	162,278	89.4
1971	114,299	38,015	33.3	664,424	57,007	8.6	143,649	100,041	69.6
1970	137,184	43,528	31.7	1,055,596	84,448	8.0	107,525	67,790	63.0
1969	131,129	41,804	31.9	808,543	67,837	8.4	167,287	110,844	66.3
1968	167,808	48,916	29.1	492,261	34,655	7.0	118,164	68,944	58.3
1967	180,635	45,863	25.4	733,147	44,722	6.1	159,613	79,529	49.8
1966	155,270	36,411	23.5	815,876	46,097	5.7	137,154	67,088	48.9
1965	201,288	50,443	25.1	773,915	52,704	6.8	182,806	77,845	42.6
1964	173,198	43,681	25.2	626,057	37,501	6.0	120,606	37,279	30.9
1963	159,500	37,324	23.4	1,181,300	57,884	4.9	122,797	49,952	40.7
1962	225,406	54,999	24.4	383,284	22,997	6.0	129,464	61,820	47.8
1961	177,018	41,599	23.5	629,742	37,785	6.0	82,591	29,650	35.9
1960	206,999	45,954	22.2	753,329	39,926	5.3	52,646	18,054	34.3
1959	249,570			558,276			56,205		
1958	285,767			464,866			104,104		
1957	249,644			253,865			13,015		
1956	241,564			326,229			0		
1955	218,207			1,000,089			3,914		
1954	225,891			335,655			131,085		
1953	265,040			326,736			434,285		
1952	377,989			161,427			84,098		

Average prices for black mullet have ranged from a low of 5.1 cents per pound in 1961 to a high of 8.9 cents in 1969. Absolute price increases have not been substantial with an average price of 8.4 cents per pound the last three years (Table 5). Blue crab prices have been similar to black mullet with an average price of 8.6 cents per pound during the period, 1970-72. Average shrimp prices have almost doubled from 1960-62 to 1970-72. Landings, values, and prices for the major species in the county are given in Table 5. Live bait shrimping has not been an important industry in Charlotte County with the exception of 1967 and 1968 (Table 6). Even then, landings represented less than 1 percent of the state's total, with price substantially lower than the average price received in the state.

#### Citrus County

Landings in Citrus County since 1952 have trended upward since the early 1950's to an average of 4.4 million pounds during the 1970-72 period (Table 7). A five year period of lower landings was noticed from 1957 to 1961. The trend cannot be attributed to any particular species. Citrus County increased slightly in relative importance within the state. Approximately 1 percent of state landings came from the county during the 1950's. Current landings are about 2.5 percent of the state total. During the period, 1952-54 to 1970-72, Citrus County increased in regional importance from 3.9 percent to 5.9 percent of landings in the lower West Coast.

Citrus County has averaged less than 1 percent of the total value of state landings in the 1970's and 3.2 percent of the value of regional landings. Lower relative importance with respect to value when compared to volume can be attributed to a larger percentage of lower valued species landed in the county than the state or region. The 1970-72 average value of landings is \$442 thousand (Table 8) which is a considerable increase over the early 1960's.

Citrus County shellfish landings are about twice as large as finfish landings, averaging 3.0 and 1.4 million pounds from 1970-72, respectively. The value of shellfish landings are also more important than finfish landings. During the 1952-72 period the volume of finfish landed remained relatively constant while shellfish landings increased substantially (over 600 percent between the 1952-54 and 1970-72 averages). Shellfish landings were sometimes erratic from year to year and caused most of the annual variation in total county landings.

Blue crab and black mullet are the two most important species landed in terms of volume of landings. Average annual volume of blue crab landings was 2.9 million pounds for 1970-72. Mullet landings were 1.1 million pounds for the same period (Table 8). These two species account for 91 percent of Citrus County landings (Table 4). Spotted sea trout is the third most important species accounting for 2 percent of county landings. Black mullet landings are down slightly from the early 1950's. Oyster landings have also dropped substantially.

Table 6.--Wholesale value of live bait shrimp in Florida and the Florida Lower West Coast region by county, 1963-1972

Year	Florida <sup>a</sup>				Charlotte			
	Head	Dollars	Cents/Head	Head	Percent of State	Dollars	Percent of State	Cents/Head
1970-72 Average	73,129,453	1,319,115	1.80	14,217	.02	188	.01	.90
1972	73,635,123	1,320,064	1.79	33,500	.04	436	.03	1.30
1971	67,038,290	1,233,107	1.84	9,150	.01	128	.01	1.39
1970	78,714,965	1,404,175	1.78	0	0	0	0	0
1969	88,552,067	1,763,909	1.99	0	0	0	0	0
1968	87,021,435	1,486,150	1.71	761,250	.87	9,111	.61	1.19
1967	88,967,807	1,284,471	1.44	215,300	.24	2,448	.19	1.13
1966	87,692,295	1,158,065	1.32	91,750	.10	1,009	.08	1.09
1965	94,698,386	1,218,830	1.29	0	0	0	0	0
1964	84,839,523	1,123,417	1.32	0	0	0	0	0
1963	89,736,821	1,371,875	1.53	23,000	.02	399	.02	1.73

<sup>a</sup>Landings are reported by individual head. Data prior to 1963 are not available. Totals do not include Taylor County for 1963 through 1966. Totals do not include Hernando County for 1965 and 1967 through 1972.

Source: Computed from [1].



Table 6.--Wholesale value of live bait shrimp in Florida and the Florida Lower West Coast region by county, 1963-1972--Continued

Year	Dixie and Taylor			Hillsborough		
	Head	Percent of State	Percent of State	Head	Percent of State	Percent of State
	Dollars	Dollars	Cents/Head	Dollars	Dollars	Cents/Head
1970-72						
Average	6,149,655	8.4	6.1	335,567	.45	1.29
1972	8,516,936	11.6	9.1	228,000	.30	1.30
1971	4,854,950	7.2	4.9	350,000	.52	1.30
1970	5,077,080	6.4	4.3	428,700	.54	1.28
1969	3,781,750	4.3	2.5	1,139,350	1.28	1.24
1968	5,004,750	5.8	3.6	156,000	.17	1.20
1967	3,039,000	3.4	2.4	0	0	0
1966	314,000	.4	.3	9,500	.01	1.11
1965	1,435,100	1.5	2.0	70,000	.07	1.00
1964	795,300	.9	.9	0	0	0
1963	1,672,550	1.9	2.0	7,500	.008	1.51

Table 6.--Wholesale value of live bait shrimp in Florida and the Florida Lower West Coast region by county, 1963-1972--Continued

Year	Lee			Levy		
	Head	Percent of State	Percent of State	Head	Percent of State	Percent of State
	Head	Dollars	Cents/Head	Head	Dollars	Cents/Head
1970-72 Average	632,900	11,754	1.79	0	0	0
1972	1,419,050	27,791	1.95	0	0	0
1971	179,650	4,171	2.32	0	0	0
1970	300,000	3,300	1.10	0	0	0
1969	1,349,500	17,227	1.27	453,650	5,444	1.20
1968	1,360,500	19,727	1.44	763,750	9,165	1.20
1967	1,203,050	17,169	1.42	399,700	4,351	1.08
1966	1,398,900	20,223	1.44	285,600	2,865	1.00
1965	3,068,277	34,871	1.13	94,950	950	1.00
1964	2,411,070	31,328	1.29	1,938,367	19,173	.98
1963	3,842,595	54,926	1.42	6,497,917	86,016	1.32

Table 6.-- Wholesale value of live bait shrimp in Florida and the Florida Lower West Coast region by county, 1963-1972--Continued

Year	Manatee			Pasco and Hernando		
	Head	Percent of State	Cents/Head	Head	Percent of State	Cents/Head
1970-72 Average	4,500,675	6.2	1.21	10,175,850	13.8	1.65
1972	4,637,775	6.3	1.24	7,349,000	10.0	1.73
1971	4,129,850	6.2	1.20	8,087,250	12.1	1.73
1970	4,734,400	6.0	1.18	15,091,300	19.2	1.57
1969	3,801,050	4.3	1.10	21,270,375	24.0	2.10
1968	3,889,300	4.5	1.09	11,745,200	13.5	2.22
1967	4,166,400	4.7	1.12	20,437,933	23.0	1.25
1966	2,211,750	2.5	1.11	24,708,818	28.2	1.02
1965	2,262,370	2.4	1.07	28,370,133	30.0	1.15
1964	2,419,582	2.9	1.11	14,977,788	17.7	1.20
1963	3,227,780	3.6	1.15	15,647,964	17.4	1.55
	54,535	4.1	1.21	168,558	12.7	
	57,647	4.4	1.24	127,776	9.7	
	49,665	4.0	1.20	140,022	11.4	
	56,294	4.0	1.18	237,876	16.9	
	42,069	2.4	1.10	448,720	25.4	
	42,753	2.9	1.09	261,659	17.6	
	47,050	3.7	1.12	256,522	20.0	
	24,577	2.1	1.11	253,922	21.9	
	24,325	2.0	1.07	327,987	26.9	
	26,961	2.4	1.11	181,179	16.1	
	37,210	2.7	1.15	243,141	17.7	



Table 6.--Wholesale value of live bait shrimp in Florida and the Florida Lower Coast region by county, 1963-1972--Continued

Year	Pinellas				Sarasota				
	Head	Percent of State	Dollars	Percent of State	Head	Percent of State	Dollars	Percent of State	
				Cents/Head				Cents/Head	
1970-72									
Average	13,075,310	17.7	170,105	12.8	1.29	21,733	.03	291	.02
1972	10,349,729	14.1	130,402	9.9	1.25	40,200	.05	523	.03
1971	11,219,750	16.7	147,997	12.0	1.31	0	0	0	0
1970	17,656,450	22.4	231,915	16.5	1.31	25,000	.03	350	.02
1969	20,235,500	22.9	273,434	15.5	1.35	0	0	0	0
1968	17,895,050	20.6	235,126	15.8	1.31	19,200	.02	211	.01
1967	18,750,121	21.1	247,118	19.2	1.31	0	0	0	0
1966	20,765,780	23.7	253,432	21.9	1.22	0	0	0	0
1965	26,680,667	28.2	319,599	26.2	1.19	90,300	.09	1,084	.08
1964	26,274,528	31.0	327,972	29.2	1.24	234,250	.27	3,126	.27
1963	25,420,897	28.3	327,708	23.9	1.28	614,000	.68	9,570	.69

Table 7.--Commercial landings and values of finfish and shellfish in Citrus County, 1952-1972

Year	Pounds				Dollars			
	Finfish	Shellfish	Total	Percent of State of Region	Finfish	Shellfish	Total	Percent of State of Region
1972	1,452,345	2,334,428	3,786,773	2.1	167,949	249,687	417,636	.7
1971	1,325,001	3,096,928	4,421,929	2.5	138,895	288,809	427,704	.9
1970	1,539,862	3,576,371	5,116,233	2.7	183,159	298,548	481,707	1.1
1969	1,607,693	2,893,346	4,501,039	2.5	152,866	319,321	472,187	1.1
1968	2,155,754	1,613,806	3,769,560	2.0	214,821	159,303	374,124	1.0
1967	1,311,742	2,320,802	3,632,544	1.8	139,292	183,621	322,913	1.0
1966	1,394,145	3,048,407	4,442,552	2.2	136,290	193,487	329,777	1.0
1965	1,226,711	3,819,529	5,046,240	2.4	101,828	266,676	368,504	1.0
1964	1,614,411	3,134,374	4,748,785	2.5	123,145	202,585	325,730	1.1
1963	1,588,500	1,882,400	3,470,900	1.8	105,198	107,204	212,402	.7
1962	1,639,180	1,702,779	3,341,959	1.7	129,008	150,940	279,948	.9
1961	1,376,375	93,760	1,470,135	.7	106,118	28,218	134,336	.5
1960	1,115,041	139,384	1,254,425	.6	97,375	48,096	145,471	.5
1959	967,057	19,000	986,057	.5				
1958	1,659,310	11,500	1,670,810	1.0				
1957	1,099,989	577,239	1,677,228	1.0				
1956	1,910,262	137,609	2,047,871	1.1				
1955	1,871,750	28,337	1,900,087	.9				
1954	2,257,456	34,995	2,292,451	1.3				
1953	3,784,804	37,181	3,821,985	1.8				
1952	1,146,899	73,411	1,220,310	.5				

Net Available

Source: Computed from [1].

Table 8.--Species landings, values and prices for Citrus County, 1952-1972

Year	Black Mullet		Spotted Sea Trout		Grouper				
	Pounds	Dollars	Cents/lb.	Pounds	Dollars	Cents/lb.			
1970-72 Average	1,079,452	100,214	9.2	102,340	29,815	29.1	41,438	7,412	18.3
1972	1,115,871	107,123	9.6	115,695	35,240	30.5	20,682	3,518	17.0
1971	1,093,340	98,837	9.0	85,057	24,887	29.3	11,715	2,338	20.0
1970	1,029,144	94,681	9.2	106,267	29,319	27.6	91,917	16,380	17.8
1969	1,339,929	107,998	8.1	82,322	24,162	29.4	10,911	2,139	19.6
1968	1,532,429	118,304	7.7	111,926	32,044	28.6	47,581	8,322	17.5
1967	1,031,198	80,021	7.8	179,897	48,194	26.8	6,489	955	14.7
1966	1,029,026	72,238	7.0	207,576	50,628	24.4	0	0	0
1965	1,009,296	60,659	6.0	134,263	31,243	23.3	500	62	12.4
1964	1,354,545	74,635	5.5	155,901	39,318	25.2	1,458	157	10.8
1963	1,385,300	73,420	5.3	102,200	23,915	23.4	0	0	0
1962	1,321,533	79,292	6.0	159,394	34,907	21.9	2,757	276	10.0
1961	1,113,556	64,586	5.8	107,745	25,535	23.7	2,233	233	10.0
1960	912,429	59,308	6.5	118,233	27,548	23.3	686	82	12.0
1959	792,048			86,678			5,068		
1958	1,507,892			78,147			16,909		
1957	1,492,043			120,332			4,558		
1956	1,764,973			71,353			3,318		
1955	1,655,426			108,205			722		
1954	1,944,398			154,209			1,131		
1953	1,415,614			178,703			5,572		
1952	964,775			111,201			608		

<sup>a</sup>Blue crabs landed in Citrus, Levy and Dixie Counties were combined and reported in Levy County landings.

Source: Computed from [1].

Table 8.-- Species landings, values and prices in Citrus County, 1952-1972 -- Continued.

Year	Blue Crab		Stone Crab		Oysters		
	Pounds	Dollars	Pounds	Dollars	Pounds	Dollars	Cents/lb.
1970-72							
Average	2,946,715	252,162	50,569	25,386	263	119	15.0
1972	2,298,527	225,485	35,872	24,159	0	0	0
1971	3,038,042	261,575	58,550	27,143	0	0	0
1970	3,503,576	269,425	57,286	24,856	790	356	45.1
1969	2,845,900	295,689	37,665	18,987	3,900	1,560	40.0
1968	1,573,433	136,574	20,014	9,749	3,318	1,327	40.0
1967	2,270,720	161,902	28,072	12,644	17,859	8,037	45.0
1966	3,027,156	186,473	12,364	4,643	2,138	684	32.0
1965	3,778,650	250,524	28,702	9,876	8,217	2,712	33.0
1964	3,068,516	183,804	13,362	4,145	52,069	14,564	28.0
1963	1,816,800	89,023	29,900	9,389	13,500	3,861	28.6
1962	a	a	33,342	12,670	29,184	9,047	31.0
1961	a	a	59,407	17,822	31,393	9,952	31.7
1960	a	a	111,456	40,681	26,119	6,550	25.1
1959	a	a	3,000		16,000		
1958	a	a	a		11,200		
1957	a	a	a		3,116		
1956	124,670		a		12,939		
1955	0		a		28,337		
1954	0		a		34,995		
1953	0		a		27,781		
1952	0		a		44,411		

Not Available

Not Available

Not Available

Blue crab and black mullet are also the most important species to the county in value. Blue crab currently account for 57 percent of county value of landings while black mullet account for 23 percent (Table 4). These species are thus responsible for 80 percent of the value of landings while they accounted for 91 percent of the volume. This is due to the relatively low price received for black mullet and blue crab compared to other species, such as stone crabs, landed in the county. Trout are again the third most important species in total value followed closely by stone crabs. The value of mullet landings increased considerably since the early 1960's while the value of blue crab landings increased at a more moderate pace. Stone crab landings and value varied widely from year to year. Citrus County also supports a large bait shrimping industry. Landings have increased steadily since 1963 with 17.9 percent of the state landings from 1970-72 coming from the county (Table 6). Slightly lower prices per pound than state average prices were received since this represented only 14.6 percent of the state value of live bait shrimp. Average total value for 1970-72 was \$193 thousand.

Black mullet and blue crabs receive a lower price per pound than any of the leading species, with the exception of trash fish (Table 8). However, both black mullet and blue crab prices increased moderately since the early 1960's. Stone crabs averaged \$.52 cents per pound from 1970-72 and are by far the most valuable species in terms of price.

#### Collier County

Collier County landings maintained a fairly level trend since 1952 with some major fluctuations occurring for given years. A low of slightly less than 4 million pounds occurred in 1953 as compared to a maximum of 9.3 million pounds in 1968 (Table 9). Landings consist primarily of finfish with the majority of annual fluctuations coming from black mullet, king mackerel and Spanish mackerel. Major peaks in landings occurred three times in the county since 1952. These maximums ranging from approximately 7 to 9 million pounds occurred in the middle 1950's, early 1960's and late 1960's. Landings between these peaks fell below 6 million pounds with a major overall decline noticed since 1968. Only one year (1971) since 1968 has shown a slight increase over the previous year with 1972 landings the lowest since 1953.

Collier County normally lands 3 to 4 percent of Florida landings (Table 9). A low of 1.9 percent occurred in 1953 and a high of 4.9 percent occurred in 1968. Average county contribution to state landings for the last three years was 2.9 percent. Regional contribution has ranged from a low of 5.9 percent to a high of 16 percent with an average of 10.1 percent for the last three years.

Value of landings in Collier County exceeded \$1 million only three times since 1952 with a maximum of \$1.3 million occurring in 1968 (Table 9). The overall upward trend was dampened in the last five years due to

Table 9.--Commercial landings and values of finfish and shellfish in Collier County, 1952-1972

Year	Pounds			Dollars				
	Finfish	Shellfish	Total	Percent of State	Percent of Region	Total	Percent of State	Percent of Region
1972	3,223,668	922,755	4,146,423	2.3	8.2	562,668	2.0	5.4
1971	5,330,211	719,317	6,049,528	3.4	11.8	740,176	2.4	9.7
1970	4,920,070	817,364	5,737,434	3.0	10.4	585,404	2.1	7.3
1969	6,282,383	412,496	6,694,879	3.7	11.6	690,296	2.2	7.9
1968	8,649,874	608,860	9,258,734	4.9	16.0	1,087,239	3.4	11.7
1967	7,414,427	429,138	7,843,565	3.8	12.2	746,493	2.8	9.2
1966	6,792,277	303,241	7,095,518	3.5	11.3	730,457	2.5	7.7
1965	6,330,849	299,545	6,630,394	3.1	8.8	647,681	2.1	5.7
1964	4,662,969	477,430	5,140,399	2.7	7.5	386,199	1.7	4.3
1963	6,502,700	687,942	7,190,642	3.7	10.6	579,425	2.4	6.1
1962	7,317,750	435,358	7,753,108	3.9	11.6	637,468	2.3	5.5
1961	5,150,708	690,437	5,841,145	2.9	8.6	442,460	2.1	5.4
1960	4,061,847	1,225,917	5,287,764	2.7	7.5	351,760	2.2	5.1
1959	5,301,835	405,142	5,706,977	2.7	8.6			
1958	6,021,477	1,330,199	7,351,676	4.2	10.9			
1957	5,105,731	1,109,958	6,215,689	3.8	9.6			
1956	5,642,418	2,033,330	7,675,748	4.3	12.1			
1955	5,006,587	2,242,056	7,248,643	3.4	11.6			
1954	4,071,885	1,693,760	5,765,645	3.3	9.5			
1953	3,675,608	300,622	3,976,230	1.9	5.9			
1952	5,343,195	446,629	5,789,824	2.2	10.7			

Not Available

Source: Computed from [1].

decreased landings. About 2 percent of the state dockside value of landings comes from Collier County. An average of 7.5 percent of the regional value came from Collier County during 1970-72.

Finfish landings provided the majority of landings in the county, with the 1970-72 average being 84.6 percent (Table 10). Shellfish landings (15.4 percent for 1970-72) have not been as important since the middle 1950's when shrimp landings reached a maximum of 2 million pounds. Landings slightly below this level were maintained for approximately five years but have since been minimal. Major increases in stone crab landings as have occurred since 1967 should continue and place shellfish landings in a more prominent position once again.

Four species represent the major proportion of landings in Collier County. Black mullet (36.2 percent), Spanish mackerel (16.9 percent), king mackerel (13.7 percent), and stone crab (13.4 percent) collectively represent 80.2 percent of average county landings for the period 1970-72 (Table 10). Black mullet landings show a slight downward trend in the county after a high of 4.5 million pounds in 1962 (Table 11). The county trend follows closely the trend in the state although on a reduced scale. Spanish mackerel landings were somewhat erratic on an annual basis with landings going slightly over 1 million pounds in 6 of the years since 1952 and as low as 184 thousand in some years. King mackerel landings show the same type of fluctuations with most of the large landings coming since 1965. Landings in two of the last three years were quite low (Table 11). Stone crab landings in Collier County demonstrated the same pattern as landings in the state since Florida total production comes primarily from Collier and Monroe Counties. Landings increased to 887 thousand pounds in 1972 (highest on record) with the 1970-72 average being 714 thousand pounds.

Stone crabs represent the most important fishery in the county in value. Thirty-seven percent of the county value comes from this species (Table 10). Pompano also becomes important in value although representing only 2.4 percent of county landings. In fact, pompano accounted for 14.6 percent of the county value from 1970-72, second only to stone crabs. These two species, in addition to black mullet, king mackerel, and Spanish mackerel accounted for 88.4 percent of the county dockside value of landed finfish and shellfish (Table 10). Finfish as a group accounted for almost 60 percent of the county dockside value while shellfish were responsible for the remaining 40 percent. Collier County does not have an active bait shrimping industry.

Black mullet prices were marginally lower in Collier County than in the state. Average price for 1970-72 was 7.7 cents per pound while statewide average price for the same period was 8.5 cents. Price increases were minimal with a less than 2 cents per pound increase since 1966 (Table 11). King mackerel prices increased slowly until 1971 when a 5 cents per pound increase occurred. A 3 cents per pound increase occurred again in 1972 with a 1970-72 average price of 17.8 cents per pound.

Table 10.--Commercial landings and value of important species of finfish and shellfish in Collier, Dixie, and Taylor Counties, three-year average, 1970-1972

Species	Collier			Dixie & Taylor			
	Pounds	Percent of County	Dollars	Pounds	Percent of County	Dollars	Percent of County
Bluefish	11,669	.2	1,179	19,171	.8	2,014	.8
Crevalle (Jack)	57,642	1.1	4,432	1,011	.0	56	a
Grouper	125,200	2.4	21,394	2,505	.1	377	.2
King Mackerel	726,662	13.7	129,951	1,996	.1	249	.1
Menhaden	7,526	.1	676	178,668	7.2	7,041	2.8
Black Mullet	1,921,852	36.2	146,506	354,715	14.3	36,525	14.7
Silver Mullet	123,736	2.3	7,978	0	0.0	0	0.0
Pompano	126,846	2.4	152,317	487	a	548	.2
Redfish	20,331	.4	3,093	9,346	.4	1,750	.7
Spotted Sea Trout	56,843	1.1	18,093	132,060	5.3	40,032	16.1
Spanish Mackerel	897,358	16.9	111,582	13,527	.5	1,779	.7
Spot	0	0.0	0	15,790	.6	1,767	.7
Trash Fish	12,938	.2	380	62,417	2.5	3,033	1.2
Other Finfish	402,713	7.6	31,835	43,718	1.8	6,345	2.6
Total Finfish	4,491,316	84.6	629,416	835,411	33.6	101,516	40.8
Blue Crab	76,359	1.4	7,636	1,598,043	64.4	122,051	49.0
Stone Crab	713,908	13.4	389,950	52,693	2.1	18,039	7.2
Shrimp (Heads-on)	14,036	.3	12,185	0	0.0	0	0.0
Spiny Lobster	15,325	.3	13,760	0	0.0	0	0.0
Other Shellfish	184	a	7	1,211	.1	7,518	3.0
Total Shellfish	819,812	15.4	423,538	1,651,947	66.4	147,608	59.2
Grand Total	5,311,128	100.0	1,052,954	2,487,358	100.0	249,124	100.0

a Less than .1 percent.

Source: Computed from [1].



Table 11.--Species landings, values, and prices for Collier County, 1952-1972

Year	Grouper			Black Mullet			King Mackerel		
	Pounds	Dollars	Cents/lb.	Pounds	Dollars	Cents/lb.	Pounds	Dollars	Cents/lb.
1970-72 Average	125,200	21,394	17.5	1,921,852	146,506	7.7	726,662	129,951	17.8
1972	109,176	22,719	20.8	1,411,375	115,309	8.2	318,144	69,291	21.8
1971	91,229	15,025	16.5	2,153,214	158,476	7.4	1,437,069	265,426	18.5
1970	175,196	26,437	15.1	2,200,966	165,733	7.5	424,774	55,135	13.0
1969	198,883	36,933	18.6	2,978,420	212,361	7.1	1,119,235	135,987	12.1
1968	393,906	63,852	16.2	2,217,111	151,650	6.8	2,772,545	355,718	12.8
1967	308,458	45,559	14.8	3,318,090	224,966	6.8	1,607,217	181,776	11.3
1966	242,641	33,315	13.7	3,069,462	202,584	6.6	1,520,757	182,816	12.0
1965	296,402	32,634	11.0	2,693,023	140,576	5.2	1,036,392	124,885	12.0
1964	143,414	15,403	10.7	3,191,135	175,832	5.5	72,682	6,091	8.4
1963	284,700	28,185	9.9	3,423,300	181,435	5.3	689,900	72,441	10.5
1962	318,425	33,116	10.4	4,488,623	219,943	4.9	705,496	74,077	10.5
1961	54,712	5,252	9.6	3,334,955	170,082	5.1	46,496	4,650	10.0
1960	51,687	6,719	13.0	2,244,123	123,427	5.5	248,422	24,097	9.7
1959	88,708			3,250,121			353,321		
1958	29,392			3,934,463			608,789		
1957	178,171			2,875,752			288,479		
1956	103,830			3,390,110			380,172		
1955	74,376			3,103,882			207,726		
1954	50,642			2,241,420			228,039		
1953	35,066			1,895,048			199,423		
1952	89,849			1,950,973			253,142		

Source: Computed from [1].

Not Available

Not Available

Not Available

Table 11.—Species landings, values, and prices for Collier County, 1952-1972—Continued

Year	Spanish Mackerel			Pompano			Stone Crab		
	Pounds	Dollars	Cents/lb.	Pounds	Dollars	Cents/lb.	Pounds	Dollars	Cents/lb.
1970-72 Average	897,358	111,582	12.5	126,846	152,317	120.0	713,908	389,950	53.9
1972	750,934	99,348	13.2	167,464	202,600	121.0	887,130	530,858	59.8
1971	851,299	103,092	12.1	105,752	135,356	127.9	656,392	339,354	51.7
1970	1,089,842	132,307	12.1	107,292	119,094	111.0	598,202	299,639	50.1
1969	784,083	93,541	11.9	99,974	98,434	98.5	394,190	236,672	60.0
1968	1,529,505	170,540	11.2	182,878	122,108	66.8	539,410	255,249	47.3
1967	921,373	97,205	10.6	104,885	67,955	64.8	307,095	153,210	49.9
1966	1,010,263	120,221	11.9	97,815	71,649	73.2	228,705	94,997	41.5
1965	1,245,992	155,749	12.5	122,042	83,330	68.3	89,962	36,857	41.0
1964	477,024	45,460	9.5	92,372	57,326	62.1	151,571	47,017	31.0
1963	1,037,400	94,404	9.1	131,300	90,859	69.2	165,500	51,967	31.4
1962	822,724	76,513	9.3	153,552	127,448	83.0	63,002	21,547	34.2
1961	947,935	92,900	9.8	125,884	90,762	72.1	92,255	33,396	36.2
1960	731,164	70,192	9.6	79,058	15,388	65.0	76,870	28,058	36.5
1959	753,211			85,996			88,768		
1958	298,826			91,378			132,698		
1957	715,869			126,440			106,308		
1956	484,990			74,514			163,172		
1955	184,965			113,514			178,690		
1954	388,336			116,702			179,025		
1953	360,817			23,303			61,690		
1952	1,070,948			147,021			27,523		

Spanish mackerel prices increased rather slowly (Table 11). Major price increases appeared for pompano (doubling since 1965) and stone crab landings (Table 11). Similar price data on all species are given in Table 11.

#### Dixie and Taylor Counties

Landings in Dixie and Taylor Counties maintained a fairly stable trend since the early 1960's with the exception of 1965 and 1967 when total landings were 4.9 million and 3.5 million pounds, respectively (Table 12). These major fluctuations were due primarily to blue crab landings. Dixie and Taylor County landings normally represent about 1.5 percent of Florida landings and about 5 percent of the lower West Coast regional landings (Table 12). Blue crab landings from 1957 to 1962 were combined with those of Levy County resulting in the lower than normal totals shown in Table 12 for those years. Contribution to regional landings did range as high as 6.5 percent in 1965.

Maximum value of landings of 327 thousand dollars occurred in 1965. Values for the last several years averaged about 250 thousand dollars. Contribution to the state dockside value of landed products was less than 1 percent. Regional contribution in value reached a maximum of 2.5 percent in 1965 (Table 12).

Shellfish landings contribute about two-thirds of all landings in the county (Table 10). Most major annual fluctuations resulted from shellfish landings. Finfish landings show a slight downward trend since 1952, with landings larger than 1 million pounds reported in only two of the last ten years (Table 12).

Two species represented 78.7 percent of total landings in Dixie and Taylor Counties for the period 1970-72 (Table 10). Blue crab landings totaled 64.4 percent while black mullet landings accounted for 14.3 percent. Spotted sea trout landings become an important species in terms of value of landings currently representing 16.1 percent of the value of all landed products (Table 10).

The trend in blue crab landings has been downward since 1965 when a maximum of slightly over 4 million pounds were landed in the two counties (Table 13). Average landings for 1970-72 were 1.6 million pounds. The value of the fishery fluctuated with landings. Black mullet landings declined in the last twenty years from an all-time maximum of slightly over 1 million pounds in 1954. Average landings for 1970-72 were 355 thousand pounds. Total value of the mullet fishery also declined in general with the exception of the last two years. Spotted sea trout landings averaged 132 thousand pounds for 1970-72 with an average value of \$40 thousand. Landings of this species also fluctuated widely on an annual basis from a high of 306 thousand pounds in 1954 to a low of 67 thousand pounds in 1969 (Table 13).

Table 12.--Commercial landings and values of finfish and shellfish in Dixie and Taylor Counties, 1952-1972

Year	Pounds			Dollars				
	Finfish	Shellfish	Total	Percent of State of Region	Percent of Region	Total	Percent of State of Region	Percent of Region
1972	740,210	1,394,306	2,134,516	1.2	4.2	97,671	.4	1.1
1971	1,026,607	1,634,216	2,660,823	1.5	5.2	120,049	.6	2.2
1970	739,419	1,927,318	2,666,737	1.4	4.9	86,827	.6	2.1
1969	530,432	1,819,328	2,349,760	1.3	4.1	59,014	.6	2.0
1968	976,013	1,751,485	2,727,498	1.4	4.7	83,676	.5	1.9
1967	1,009,762	2,465,476	3,475,238	1.7	5.4	96,779	.7	2.3
1966	752,128	2,102,674	2,854,802	1.4	4.5	75,190	.6	1.8
1965	883,764	4,015,184	4,898,948	2.3	6.5	98,987	.9	2.5
1964	819,801	1,712,355	2,532,156	1.1	3.1	75,093	.6	1.6
1963	966,400	1,678,400	2,644,800	1.4	4.0	71,406	.6	1.6
1962 <sup>a</sup>	1,004,048	23,091	1,027,139	.5	1.5	93,275	.3	.7
1961 <sup>a</sup>	993,632	17,114	1,010,746	.5	1.5	73,630	.3	.7
1960 <sup>a</sup>	1,045,350	696	1,046,046	.5	1.5	91,700	.3	.8
1959 <sup>a</sup>	955,831	0	955,831	.4	1.4			
1958 <sup>a</sup>	1,253,667	0	1,253,667	.7	1.9			
1957 <sup>a</sup>	1,099,989	985	1,100,974	.7	1.7			
1956	1,407,083	125,070	1,532,153	.9	2.4		Not Available	
1955	1,041,034	1,371	1,042,405	.5	1.4			
1954	1,549,113	4,897	1,554,010	.9	2.6			
1953	1,414,689	179	1,414,868	.7	2.1			
1952	1,426,815	1,438	1,428,253	.5	2.6			

<sup>a</sup>Blue crab landings for Citrus, Dixie and Taylor Counties for the years 1957 through 1962 were combined with Levy County to avoid disclosure of individual statistics. Taylor County totals were not included in 1957.

Source: Computed from [1].

Table 13.--Species landings, values, and prices for Dixie and Taylor Counties, 1952-72

Year	Menhaden			Black Mullet			Spotted Sea Trout		
	Pounds	Dollars	Cents/lb.	Pounds	Dollars	Cents/lb.	Pounds	Dollars	Cents/lb.
1970-72 Average	178,668	7,041	3.8	354,715	36,525	10.0	132,060	40,032	30.6
1972	64,314	2,257	3.5	334,485	32,239	9.6	119,348	40,024	33.5
1971	228,814	9,152	4.0	482,873	54,854	11.4	119,342	36,494	30.6
1970	242,876	9,715	4.0	246,787	22,482	9.1	157,491	43,578	27.7
1969	82,936	2,488	3.0	278,311	23,322	8.4	66,657	19,810	29.7
1968	217,060	7,358	3.4	340,711	25,383	7.5	89,498	25,462	28.4
1967	0	0	0	442,604	38,595	8.7	129,783	35,028	27.0
1966	62,469	2,074	3.3	404,781	25,258	6.2	155,270	36,411	23.5
1965	43,264	1,692	3.9	372,508	19,519	5.2	287,687	64,212	22.3
1964	22,208	642	2.9	553,841	30,517	5.5	145,555	36,709	25.2
1963	8,000	320	4.0	707,100	37,496	5.3	99,100	23,190	23.4
1962	17,589	510	2.9	667,273	35,365	5.3	174,193	43,200	24.8
1961	12,726	318	2.5	625,078	31,254	5.0	123,187	27,717	22.5
1960	0	0	0	738,108	38,382	5.2	191,372	40,188	21.0
1959	0	0	0	601,128			220,500		
1958	54,625			856,781			197,837		
1957	0			596,540			140,852		
1956	10,440			825,449			173,761		
1955	0			652,104			143,267		
1954	0			1,039,296			306,048		
1953	0			824,203			299,297		
1952	0			882,245			239,797		

<sup>a</sup>Blue crab landings for Citrus, Dixie, and Taylor Counties for the years 1957 through 1962 were combined with Levy County to avoid disclosure of individual statistics. Taylor County totals were not included in 1957.

Source: Computed from [1].

Table 13.---Species landings, values, and prices for Dixie and Taylor Counties, 1952-1972---Continued

Year	Trash Fish			Blue Crab			Stone Crab		
	Pounds	Dollars	Cents/lb.	Pounds	Dollars	Cents/lb.	Pounds	Dollars	Cents/lb.
1970-72									
Average	62,418	3,033	4.8	1,598,044	122,051	7.7	52,693	18,039	35.1
1972	108,012	5,399	5.0	1,350,466	117,484	8.7	43,840	20,092	45.8
1971	70,547	3,287	4.7	1,573,630	117,392	7.5	60,586	18,488	30.5
1970	8,694	413	4.8	1,870,035	131,276	7.0	53,652	15,538	29.0
1969	15,750	573	3.6	1,757,380	157,637	9.0	42,106	13,512	32.1
1968	142,302	6,162	4.3	1,729,287	122,261	7.1	858	263	30.7
1967	338,302	13,634	4.0	2,461,525	134,399	5.5	375	103	27.5
1966	31,774	1,624	5.1	2,095,916	115,485	5.5	4,920	2,135	43.4
1965	101,959	5,088	5.0	4,055,610	224,715	5.6	9,502	2,888	30.4
1964	31,483	806	2.6	1,202,682	72,041	6.0	123,456	38,296	31.0
1963	57,200	1,430	2.5	1,567,300	76,798	4.9	109,700	34,446	31.4
1962	18,787	601	3.2	a	a	a	21,290	5,110	24.0
1961	160,367	3,207	2.0	a	a	a	13,728	3,844	28.0
1960	6,200	136	2.2	a	a	a	696	258	37.1
1959	12,415			a	a	a	0		
1958	945			a	a	a	0		
1957	75						0		
1956	8,972	Available	Not Available	122,242	Available	Not Available	0	Available	Not Available
1955	5,617			0			0		
1954	336			0			0		
1953	9,103			0			0		
1952	0			0			0		

Live bait shrimping is also important in Dixie and Taylor Counties. For 1970-72 an average of 6.1 million head were landed with an average value of \$80.5 thousand (Table 6). This represents an average of 8.4 percent of Florida landings. Bait shrimping is a rapidly growing fishery in these counties.

Blue crab prices have ranged from a low of 4.9 cents per pound in 1963 to 9.0 cents per pound in 1969 (Table 13). Average price for 1970-72 in the county was 7.7 cents which is below the statewide average price of 8.5 cents per pound for the same period. Black mullet prices for Dixie and Taylor Counties have consistently been above average statewide prices. Average price for 1970-72 was 10.0 cents per pound as compared to 8.5 cents per pound for the state. This increase over statewide average prices has occurred only in the last few years. Spotted sea trout prices in Dixie and Taylor Counties have increased from a low of 21 cents per pound in 1960 to a high of 33.5 cents in 1972 with an average of 30.6 cents from 1970-72. This average price is about 1 cent per pound below the state average price for the same period.

#### Hillsborough County

Hillsborough County currently accounts for about 2 percent of the total volume of landings in Florida and 7 percent of regional landings (Table 14). However, both as a percent of the state and a percent of the region Hillsborough County has been declining since the mid-1950's in relative importance. During the 1952-57 period the county accounted for approximately 10 percent of state landings and approximately 30 percent of regional landings. In the early 1950's (1952-54) the average volume of landings exceeded 17 million pounds while average 1970-72 landings are 3.7 million pounds (Table 16). Most of the decline is due to a decrease in spotted sea trout, red snapper and shrimp landings.

Total value of landings in Hillsborough County trended downward both in absolute and relative amounts. In the early 1960's total value of landings exceeded \$4 million annually. From 1970 to 1972 the county averaged only \$1.6 million (Tables 14). The value of county landings declined from 17 percent to approximately 3 percent of state value during the same period.

County landings are currently 40 percent finfish and 60 percent shellfish (Table 15). However, shellfish values represent 86 percent of the value of county landings. Comparing the period 1952-54 with 1970-72 shows a decrease of 30 percent in volume of finfish landings while shellfish declined 85 percent. The decline (due to shrimp) was rather continuous for shellfish throughout the period. Finfish landings increased until the early 1960's and then declined. Similar trends in the value of finfish and shellfish occurred since the early 1960's.

Shrimp are currently the most important species landed in Hillsborough County accounting for 49.9 percent of all landings from 1970-72 (Table 15).

Table 14.--Commercial landings and values of finfish and shellfish in Hillsborough County, 1952-1972

Year	Pounds			Dollars				
	Finfish	Shellfish	Total	Finfish	Shellfish	Total	Percent of State	Percent of Region
1972	1,491,153	2,345,963	3,837,116	226,310	1,725,943	1,952,253	3.4	9.4
1971	1,383,319	1,683,601	3,066,920	213,293	1,062,828	1,276,121	2.8	11.1
1970	1,568,472	2,586,094	4,154,566	235,757	1,354,411	1,590,168	3.7	12.7
1969	1,619,223	2,944,770	4,563,993	188,068	1,751,282	1,939,350	4.7	16.5
1968	1,802,432	3,561,055	5,363,487	220,970	1,958,858	2,179,828	5.6	18.9
1967	1,905,071	3,949,901	5,854,972	202,706	1,779,644	1,982,350	6.0	19.8
1966	2,171,932	6,520,351	8,692,283	237,348	2,314,224	2,551,572	7.4	23.2
1965	2,982,529	11,865,301	14,847,830	255,079	4,391,395	4,646,474	13.1	35.3
1964	4,338,719	13,562,800	17,901,519	346,734	4,876,671	5,223,405	17.0	44.0
1963	3,468,600	10,854,043	14,322,643	286,652	4,455,582	4,742,234	16.3	40.5
1962	3,270,907	11,831,558	15,102,465	281,783	5,890,525	6,172,308	19.1	44.9
1961	3,511,132	11,596,048	15,107,180	317,552	4,193,772	4,511,324	16.6	41.6
1960	3,563,744	12,578,048	16,141,792	333,083	4,249,195	4,582,278	17.1	40.1
1959	2,878,766	11,673,674	14,552,489					
1958	2,131,560	13,173,433	15,304,993					
1957	2,492,245	15,391,707	17,883,952					
1956	2,156,625	18,992,525	21,149,150					
1955	1,839,337	18,109,772	19,949,109					
1954	1,917,527	18,158,464	20,075,991					
1953	2,038,641	18,202,152	20,240,793					
1952	2,367,004	9,381,905	11,748,909					

Not Available

Source: Computed from [1].



Table 15.--Commercial landings and value of important species of finfish and shellfish in Hillsborough and Lee Counties, three-year average, 1970-1972

Species	Hillsborough			Lee		
	Pounds	Percent of County	Dollars	Pounds	Percent of County	Dollars
Crevaille (Jack)	15,155	.4	451	115,508	.7	4,104
Grouper	364,745	9.9	77,280	789,482	4.9	163,866
King Mackerel	4,046	.1	665	488,608	3.0	69,430
Black Mullet	849,237	23.0	71,057	5,283,886	32.8	497,652
Pompano	2,791	.1	3,762	499,434	3.1	627,273
Redfish	15,137	.4	2,528	318,766	2.0	56,821
Spotted Sea Trout	37,125	1.0	11,563	870,478	5.4	290,035
Red Snapper	78,764	2.1	44,263	181,174	1.1	93,218
Spanish Mackerel	2,311	.1	334	572,116	3.5	76,855
Spot	46,758	1.3	5,962	1,076	a	107
Other Finfish	64,913	1.8	7,255	1,320,993	8.2	190,050
Total Finfish	1,480,982	40.2	225,120	10,441,521	64.7	2,069,411
Blue Crab	325,614	8.8	25,333	902,960	5.6	78,160
Spiny Lobster	41,940	1.1	38,455	42,307	.3	29,751
Shrimp (Heads-on)	1,837,541	49.9	1,317,178	4,720,835	29.2	3,511,714
Other Shellfish	124	a	96	37,996	.2	16,140
Total Shellfish	2,205,219	59.8	1,381,062	5,704,098	35.3	3,635,765
Grand Total	3,686,201	100.0	1,606,182	16,145,619	100.0	5,705,176

<sup>a</sup>Less than .1 percent.

Source: Computed from [1].

Table 16.--Species landings, values, and prices for Hillsborough County, 1952-1972

Year	Grouper		Black Mullet		Red Snapper	
	Pounds	Dollars	Pounds	Dollars	Pounds	Dollars
1970-72 Average	364,745	77,280	849,237	71,058	78,764	44,263
1972	250,605	69,993	1,014,705	87,467	51,943	36,360
1971	443,758	82,672	698,222	57,254	68,169	44,309
1970	399,873	79,175	834,783	68,452	116,181	52,119
1969	53,152	7,680	1,282,174	122,576	17,028	9,365
1968	281,697	39,578	1,058,616	89,559	92,304	36,922
1967	231,304	28,103	1,195,881	91,604	170,671	44,289
1966	312,455	40,619	1,383,761	103,782	187,893	52,449
1965	423,288	46,138	1,843,865	102,703	243,742	50,089
1964	373,569	40,121	3,194,343	176,008	194,384	59,793
1963	502,900	49,787	2,345,100	124,291	237,400	62,674
1962	505,916	48,568	2,018,147	117,053	242,169	52,309
1961	408,905	39,664	2,322,012	139,321	279,051	72,553
1960	517,130	57,400	2,233,070	125,052	296,994	75,733
1959	537,497		1,570,330		407,268	
1958	301,394		1,020,156		473,721	
1957	382,241		1,477,835		272,611	
1956	210,194	Not Available	1,335,213	Not Available	296,167	Not Available
1955	182,020	Available	1,067,361	Available	348,987	Available
1954	323,138		985,595		281,261	
1953	355,532		1,077,351		225,008	
1952	523,881		938,284		212,975	

Source: Computed from [1].

Table 16.--Species landings, values, and prices for Hillsborough County, 1952-1972--Continued

Year	Blue Crab		Spiny Lobster		Shrimp (Heads-on)				
	Pounds	Dollars	Cents/lb.	Pounds	Dollars	Cents/lb.			
1970-72 Average	325,614	25,333	7.9	62,910	57,682	92.50	1,837,452	1,317,178	72.1
1972	324,280	27,044	8.3	56,121	56,121	100.00	1,965,455	1,642,669	83.6
1971	250,056	21,304	8.5	69,699	59,244	85.00	1,363,846	982,280	72.0
1970	402,506	27,652	6.9	0	0	0	2,183,324	1,326,586	60.7
1969	163,489	17,738	10.8	0	0	0	2,780,849	1,733,371	62.3
1968	194,795	14,493	7.4	0	0	0	3,366,260	1,944,365	57.8
1967	647,427	41,241	6.4	0	0	0	3,302,388	1,738,373	52.6
1966	2,202,055	128,160	5.8	0	0	0	4,318,116	2,186,019	50.6
1965	1,610,201	96,451	6.0	0	0	0	10,228,974	4,286,322	41.9
1964	949,340	56,865	6.0	0	0	0	12,557,480	4,803,803	38.3
1963	428,100	20,977	4.9	0	0	0	10,405,243	4,428,437	42.6
1962	126,307	8,841	7.0	0	0	0	11,668,772	5,870,743	50.3
1961	218,137	13,525	6.2	0	0	0	11,375,329	4,179,122	36.7
1960	317,351	16,502	5.2	237	85	35.9	12,249,817	4,228,392	34.5
1959	316,807			0			11,351,012		
1958	341,673			0			12,831,004		
1957	322,865			0			15,068,418		
1956	292,356			0			18,698,815		
1955	474,653			0			17,634,519		
1954	274,777			0			17,883,534		
1953	11,789			0			18,189,973		
1952	23,791			0			9,343,481		

Black mullet rank second with 23 percent of the volume of county landings. Grouper and blue crab rank third and fourth, respectively, with 9.9 and 8.8 percent. Shrimp landings declined from over 15 million pounds in 1952-54 to an average of 1.8 million pounds annually in 1970-72 (Table 16). The decline was most pronounced between 1965 and 1966. Mullet landings increased until the mid-1960's and then declined to the present 1970-72 average of 849 thousand pounds annually. Grouper landings were quite variable from year to year. Blue crab landings were also extremely variable but show an overall increase since 1952.

The value of shrimp landings decreased since 1960. However, since prices more than doubled during that period the decline in value was less than the decline in volume of shrimp landings (Table 16). Shrimp prices increased from a little over \$.35 per pound in the early 1960's to the 1970-72 average of \$.72 per pound. The value of black mullet landings decreased considerably since 1960 despite an approximate 3 cents per pound price increase. This reflects a decline in black mullet landings since 1960. The value of grouper landings increased since 1960 in spite of a rather substantial decline in volume of landings. Grouper prices doubled during this period. Average 1970-72 value of blue crab landings are up from the average for the early 1960's. However, the value of blue crab landings is considerably below the average for 1964-67 period. Prices for blue crab were quite variable from year to year but increased overall since 1960.

#### Lee County

Maximum landings in Lee County since 1952 occurred in 1953 and again in 1967 when landings were 23.5 and 21.0 million, respectively (Table 17). The large increase in 1953 was due to shrimp while the 1967 increase was due to large one-year landings of thread herring. The smallest total catch of 14.8 million was reported in 1956. Generally, finfish landings in the county increased steadily while shellfish landings decreased over the past 20 years. Total landings were marked by wide annual fluctuations while maintaining a somewhat level overall trend. Lee County normally lands from 7 to 10 percent of state total landings with average landings from 1970-72 being 8.8 percent of the Florida total. Average regional contribution for the same period was 30.9 percent (Table 17).

Value of landings have increased steadily for the county reaching a maximum of \$6.8 million in 1972 (Table 17). This represents almost a 100 percent increase since 1960. Lee County contributed a 1970-72 average of 11.7 percent to the state total value of landings. Regional contribution was 39.6 percent for the same period. A larger percentage contribution of value compared to landings indicates a more valuable product in general is landed in Lee County than in the state as a whole.

Finfish represent about two-thirds of county landings while shellfish represent the remaining one-third of the total (Table 15). Value of

Table 17.--Commercial landings and values of finfish and shellfish in Lee County, 1952-1972

Year	Pounds			Dollars					
	Finfish	Shellfish	Total	Finfish	Shellfish	Total	Percent of State of Region	Percent of State of Region	Percent of Region
1972	11,696,862	5,162,315	16,859,177	2,452,932	4,343,213	6,796,145	33.3	11.9	32.7
1971	10,065,603	5,240,616	15,306,219	1,931,728	3,249,382	5,181,110	29.9	11.3	44.9
1970	9,562,097	6,709,363	16,271,460	1,823,572	3,314,702	5,138,274	29.4	11.9	41.1
1969	11,831,003	5,289,065	17,120,068	1,546,222	2,975,472	4,521,694	29.6	10.9	38.5
1968	11,958,966	6,261,478	18,220,444	1,195,539	3,374,275	4,569,814	31.5	11.6	39.7
1967	14,918,915	6,120,512	21,039,427	945,484	2,613,323	3,558,807	32.6	10.8	35.5
1966	8,362,405	7,468,863	15,831,268	942,735	3,183,982	4,126,717	25.2	12.0	37.5
1965	8,605,259	7,588,154	16,193,413	834,742	2,928,972	3,763,714	21.6	10.6	28.6
1964	7,754,796	7,925,236	15,680,032	671,032	2,413,953	3,084,985	22.8	10.0	26.0
1963	6,441,300	8,776,983	15,218,283	576,563	2,840,887	3,417,450	22.5	11.8	29.2
1962	7,633,891	7,753,967	15,387,858	660,373	3,393,029	4,053,402	23.1	12.5	29.5
1961	7,407,305	8,767,952	16,175,257	612,302	2,569,820	3,182,122	23.8	11.7	29.3
1960	7,203,109	10,851,225	18,054,334	662,995	2,930,122	3,593,117	25.7	13.4	31.4
1959	9,800,018	9,029,437	18,829,455				28.4		
1958	9,130,797	9,483,487	18,614,284				27.7		
1957	6,376,759	8,532,623	14,909,382				23.1		
1956	4,867,872	9,909,207	14,777,079				23.3		
1955	6,107,103	11,689,204	17,796,307				28.4		
1954	4,676,504	12,259,761	16,936,265				27.9		
1953	4,377,132	19,141,416	23,518,548				35.1		
1952	4,170,390	13,875,215	18,045,605				6.8		

Not Available

Source: Computed from [1].

landings was exactly reversed with shellfish accounting for two-thirds and finfish one-third of the total. Most annual fluctuations in landings came from finfish with shellfish showing a fairly stable but downward trend. Shellfish landings (primarily shrimp) constituted the major proportions of Lee County landings in the early 1950's. An upward trend in finfish landings accompanied by a downward trend in shellfish landings reversed this pattern by the early 1970's (Table 17). Decreases in shrimp landings from the Campeche area into Lee County constitutes the major reason for the decline in shellfish landings.

Two species represented 62 percent of all finfish and shellfish landed in the county for the 1970-72 average (Table 15). Black mullet represented 32.8 percent of county landings while shrimp accounted for 29.2 percent. The addition of blue crab, spotted sea trout and grouper brings the total percentage contribution of the top five species to 77.9 percent of county total landings (Table 15). Pompano was the most valuable finfish. Eleven percent of county value of landings came from pompano although landings were only slightly over 3 percent. Total value of black mullet landings was 8.7 percent although one-third of the county total volume came from this species. Shrimp landings were responsible for 61.5 percent of the county value although the total contribution in pounds was only 29.2 percent (Table 15).

Black mullet landings increased in 1972 almost 1 million pounds over the 1971 high for the last six years of 5.1 million (Table 18). Highest landings recorded for the county occurred in 1959 at 7.5 million pounds. Total Lee County mullet landings trended slightly upward with some annual fluctuation for the past twenty years while Florida landings peaked in the early 1960's and have shown an overall decline since that time. However, state-wide increases have occurred in three of the last five years. Total county value of mullet landings increased steadily over time primarily through a larger volume of landings. Spotted sea trout landings in the county also trended upward over the past twenty years although 1971 and 1972 landings were down from record catches in the late 1960's (Table 18). This again contrasts with state-wide landings for sea trout which trended downward with wide annual fluctuations. Shrimp landings in both Lee County and state-wide indicate severe downward trends (Table 18). Much of this decline may be due to domestically owned vessels diverting their harvest to U.S. owned freezing and storage plants in foreign ports for shipment to the U.S. market. Landings in Lee County fell from a high of 17.9 million pounds in 1953 to a low of 4.9 million in 1972. Landings were even lower than 1972 levels in 1967, 1969, and 1971.

The value of Lee County landings maintained a fairly stable trend due to large price increases. Landings in 1972 were the most valuable in the last 13 years although volume was low.

Live bait shrimping constitutes an additional commercial fishery in the county (Table 6). County landings in 1972 were almost 1.5 million head which represented 2.1 percent of Florida's total. Landings of live

Table 18.--Species landings, values, and prices for Lee County, 1952-1972

Year	Black Mullet			Pompano			Spotted Sea Trout		
	Pounds	Dollars	Cents/lb.	Pounds	Dollars	Cents/lb.	Pounds	Dollars	Cents/lb.
1970-72									
Average	5,283,886	497,652	9.4	499,434	627,273	124.8	870,478	290,035	33.4
1972	6,018,094	580,746	9.6	609,675	799,710	131.2	833,552	292,576	35.1
1971	5,064,184	463,879	9.2	454,149	573,771	126.3	781,425	256,072	32.8
1970	4,769,381	448,332	9.4	434,478	508,339	117.0	996,457	321,457	32.3
1969	5,058,051	444,097	8.8	330,562	319,678	96.7	945,891	289,064	30.6
1968	4,047,485	348,893	8.6	216,295	147,016	68.0	1,049,545	307,622	29.3
1967	4,049,963	316,302	7.8	154,265	92,081	59.7	901,049	233,912	26.0
1966	4,889,848	348,646	7.1	96,647	65,283	67.5	1,195,618	288,799	24.2
1965	5,417,623	314,764	5.8	71,850	42,384	59.0	1,064,765	252,030	23.7
1964	5,756,624	317,190	5.5	48,158	29,887	62.1	748,776	188,841	25.2
1963	3,986,600	211,290	5.3	49,100	33,977	69.2	638,700	149,456	23.4
1962	5,452,855	310,813	5.7	58,041	41,790	72.0	606,003	145,441	24.0
1961	5,548,041	305,142	5.5	65,917	44,824	68.0	641,097	149,375	23.3
1960	4,987,509	289,276	5.8	95,812	57,966	60.5	740,298	166,567	22.5
1959	7,528,026			60,646			805,875		
1958	6,959,847			62,987			875,225		
1957	4,775,446			36,457			667,989		
1956	3,289,010			27,731			581,738		
1955	4,437,444			28,533			533,883		
1954	2,966,901			69,137			501,540		
1953	2,713,432			13,868			544,636		
1952	2,109,017			64,351			741,835		

Source: Computed from [1].

Not Available

Not Available

Not Available





bait shrimp remained fairly stable since 1964 except for two very low-volume years (Table 6) noticed in two of the last thirteen years that price data were available. Similar landings, value, and price data for the remaining species can be found in Table 18.

### Levy County

Total volume of landings in Levy County increased 126 percent between the periods 1952-54 and 1970-72. Average landings from 1970-72 are in excess of 2 million pounds (Table 19). This percentage increase in total pounds landed was greater than the increase for the state or region. Consequently, even though Levy County is a relatively small part of the state and region it increased its relative importance with respect to both the state and region. The county accounts for a little over 1 percent of state landings and approximately 4 percent of regional landings for the 1970-72 period. However, county landings are down from their high during the 1959-62 period (Table 19).

Value of Levy County landings during 1970-72 was down from earlier highs of over 300 thousand dollars in 1968 and 1969. Value data for 1960-62 contains values from other counties and cannot be used for comparison (Table 19). During this same period Levy County became less important with respect to both total value of state and regional landings. Currently, the county accounts for less than one-half of one percent of the state value of landings and less than 2 percent of the value of regional landings.

Finfish make up 39.1 percent of the volume of finfish and shellfish landed in the county and 35.7 percent of value while shellfish account for 60.9 and 64.3 percent of volume and value, respectively (Table 20). The small difference in percent of volume and percent of value for each group compared to other counties in this report is because of the large volumes of relatively low valued blue crab produced that constitutes a sizable part of shellfish landings in the county. Annual shellfish landings fluctuated between 2 and 3 million pounds normally with almost 4 million pounds landed in 1965. Landings between 1957 and 1962 contain those of other counties and cannot be used for comparison (Table 19). Finfish landings are fairly stable in general over the 21 year period with some annual variation noted. However, since 1960 there was a considerable upward trend in value of finfish landings because of price increases. Value of shellfish landings peaked in the late 1960's with the 1970-72 average of 155 thousand dollars being less than one-half the maximum.

Two species are responsible for 79 percent of the volume of seafood landed in the county. Blue crab is the most important species in the county averaging over 1.1 million pounds during 1970-72 (Table 20). This accounts for 53.1 percent of Levy County landings. Black mullet accounts for an additional 26 percent of landings. Stone crab ranks third, accounting for 4.1 percent. Blue crab landings increased considerably during the 1950 decade to a peak of 7.1 million pounds in 1960 and have since declined

Table 19.--Commercial landings and values of finfish and shellfish in Levy County, 1952-1972

Year	Pounds			Dollars		
	Finfish	Shellfish	Total	Finfish	Shellfish	Total
1972	821,339	901,463	1,722,802	93,049	138,166	231,215
1971	886,499	1,205,110	2,091,609	85,962	160,016	245,978
1970	766,868	1,752,591	2,519,459	79,721	166,741	246,462
1969	557,633	2,346,840	2,904,473	56,502	316,540	373,042
1968	884,133	2,140,125	3,024,258	82,249	243,944	326,193
1967	924,625	2,429,124	3,353,749	91,005	175,344	266,349
1966	1,026,533	2,042,236	3,068,769	84,200	130,171	214,371
1965	904,773	3,079,470	3,984,243	75,560	197,147	272,707
1964	894,030	1,271,989	2,166,019	64,056	109,485	173,541
1963	1,096,300	1,332,158	2,428,458	73,732	100,421	174,153
1962 <sup>a</sup>	809,612	4,837,252	5,646,864	61,210	253,798	315,008
1961 <sup>a</sup>	779,876	6,894,372	7,674,248	57,852	333,954	391,806
1960 <sup>a</sup>	833,181	7,155,619	7,988,800	55,301	349,460	404,761
1959 <sup>a</sup>	808,606	5,613,743	6,422,349			
1958 <sup>a</sup>	1,176,090	2,804,163	3,980,253			
1957 <sup>a</sup>	864,931	2,298,540	3,163,471			
1956	726,563	555,703	1,282,266			
1955	736,949	13,268	750,217			
1954	649,053	12,844	661,897			
1953	885,678	16,027	901,705			
1952	1,161,524	81,004	1,242,528			

<sup>a</sup>Includes blue crab landing from Citrus, Dixie and Taylor Counties.

Source: Computed from [1].

Not Available

Table 20.--Commercial landings and value of important species of finfish and shellfish in Levy and Manatee Counties, three-year average, 1970-1972

Species	Levy			Manatee		
	Pounds	Percent of County	Dollars	Pounds	Percent of County	Dollars
Crevaille (Jack)	0	0.0	0	56,287	.9	2,090
Grouper	12,782	.6	2,248	976,359	15.2	230,861
King Mackerel	3,699	.2	480	65,617	1.0	8,487
Black Mullet	549,260	26.0	47,944	3,824,434	59.6	307,510
Pompano	3,900	.2	4,340	53,952	.8	64,112
Redfish	19,212	.9	3,172	137,252	2.1	21,134
Spotted Sea Trout	45,212	2.1	13,499	147,111	2.3	44,127
Red Snapper	0	0.0	0	263,214	4.1	257,197
Spanish Mackerel	20,136	1.0	2,686	228,983	3.6	28,752
Spot	17,307	.8	1,743	26,835	.4	3,298
Trash Fish	71,180	3.4	3,285	8,480	.2	187
Warsaw	0	0.0	0	56,101	.8	8,116
Other Finfish	82,214	3.9	6,847	484,123	7.6	51,057
Total Finfish	824,902	39.1	86,244	6,328,748	98.7	1,026,928
Blue Crab	1,121,513	53.1	81,479	25,394	.4	3,884
Stone Crab	86,655	4.1	33,828	21,861	.3	11,707
Oysters	61,801	2.9	31,249	0	0.0	0
Shrimp (Heads-on)	6,950	.3	6,291	32,685	.5	28,753
Other Shellfish	9,469	.5	2,127	4,159	.1	2,531
Total Shellfish	1,286,388	60.9	154,974	84,099	1.3	46,875
Grand Total	2,111,290	100.0	241,218	6,412,847	100.0	1,073,803

<sup>a</sup>Less than .1 percent.

Source: Computed from [1].

to the 1970-72 annual average of 1.1 million pounds. This is still a considerable increase over the early 1950's. Black mullet landings are currently below the average of the 1950's decade. The overall trend is downward but with considerable variation from year to year. Stone crab, oyster, trash fish and Spanish mackerel landings all increased considerably during the past 21 years. However, for several of the species landed there has been extreme year to year variation (Table 21).

Value of blue crab landings reached a maximum in 1969 and have declined each year since that time. This decline in value of blue crab is consistent with the decline in pounds landed. This decline is responsible for the overall decline in the value of shellfish landings and the decline in total value of Levy County landings for the last few years. The value of mullet landings increased by over 50 percent between the periods 1960-62 and 1970-72. Most of this increase can be attributed to price increases.

All prices received by Levy County fishermen increased since 1960. Shrimp, oyster, spot and black mullet prices increased between 80 to 100 percent during the period although spot and black mullet remain relatively low priced species.

#### Manatee County

Commercial landings of finfish and shellfish in Manatee County increased in general since 1952 with a maximum of 7.6 million pounds landed in 1965 (Table 22). Some annual fluctuations occurred, notably in 1957 and 1958, the early 1960's and again in 1969, as the result of fluctuations in black mullet landings. Contribution to state landings for 1970-72 averaged 3.5 percent with a maximum contribution of 4.1 percent attained in 1969. Regional contribution has also increased over time to a high of 13 percent in 1971. Average contribution from 1970-72 to the region was 12.3 percent (Table 22).

Value of landings in the county reached an all-time high of \$1.2 million in 1972. The value of the county fishery has increased steadily with dockside value going over \$1 million each year since 1969. From 1970-72 value contribution from the county to the state averaged 2.2 percent and to the region 7.6 percent. Lower value contribution percentages reflect the large volume of relatively lower priced finfish produced in the county.

Finfish landings constitute almost the total fishery in Manatee County since 98.7 percent of all landings in the county from 1970-72 were finfish. Maximum landings for shellfish occurred in 1957 when 289 thousand pounds were landed. Even then, this represented only 4.7 percent of county landings. Shellfish have trended to become even less important both absolutely and as a percentage of county landings since the early 1950's.

Table 21.--Species landings, values and prices for Levy County, 1952-1972

Year	Black Mullet		Spotted Sea Trout		Blue Crab	
	Pounds	Dollars	Pounds	Dollars	Pounds	Dollars
1970-72 Average	549,260	47,944	45,213	13,499	1,121,513	81,479
1972	528,833	44,897	55,678	16,898	770,124	65,999
1971	614,144	52,877	36,067	10,823	1,026,041	76,337
1970	504,804	46,057	43,893	12,777	1,568,375	102,101
1969	430,433	36,888	26,811	7,907	2,070,304	215,312
1968	661,460	48,287	57,763	15,954	1,911,593	149,104
1967	667,678	50,677	86,429	23,327	2,329,050	134,153
1966	791,096	48,020	90,772	22,330	1,943,893	100,305
1965	654,116	33,360	117,090	29,296	2,993,233	171,213
1964	738,113	40,670	55,525	14,003	1,128,537	67,599
1963	845,400	44,806	58,600	13,712	1,194,700	58,540
1962	640,487	35,227	50,568	12,237	4,702,489	219,075
1961	586,429	30,494	62,293	14,452	6,819,307	311,342
1960	649,544	30,530	61,324	15,638	7,126,939	342,093
1959	617,271		68,453		5,559,296	
1958	978,398		105,152		2,790,768	
1957	679,575	Available	103,689	Available	2,262,994	Available
1956	565,130		65,184		539,712	
1955	498,457		88,546		700	
1954	447,884		106,808		5,540	
1953	629,978		122,626		500	
1952	770,734		237,753		0	

<sup>a</sup> Blue crab landed in Citrus, Dixie and Taylor Counties were included in Levy County totals.

<sup>b</sup> Two-year average.

Source: Computed from [1].

Table 21.--Species landings, values and prices for Levy County, 1952-1972--Continued

Year	Stone Crab		Oyster		Shrimp (Heads-on)	
	Pounds	Dollars	Pounds	Dollars	Pounds	Dollars
1970-72 Average	86,655	33,828	61,801	31,249	6,950	6,291
1972	62,170	29,083	63,896	39,155	2,475	2,310
1971	100,700	40,118	59,993	26,997	18,376	16,564
1970	97,095	32,284	61,514	27,595	0	0
1969	99,486	34,999	165,163	59,492	5,254	2,565
1968	35,988	12,459	159,921	69,458	320	146
1967	9,506	3,100	82,139	34,498	7,132	3,215
1966	8,826	2,244	87,674	27,179	0	0
1965	31,420	7,751	50,587	16,694	3,402	1,340
1964	85,756	26,602	37,727	10,552	17,120	4,371
1963	84,100	26,408	30,200	8,636	8,058	4,344
1962	98,710	24,974	25,350	7,858	0	0
1961	41,256	13,615	23,509	7,452	0	0
1960	12,537	4,576	3,691	923	0	0
1959	49,123		1,637		0	0
1958	11,135		0		0	Not Available
1957	12,661	Available	437	Available	0	Available
1956	15,446		401		0	
1955	12,568		0		0	
1954	6,910		394		0	
1953	8,700		153		0	
1952	25		U		0	
						91.7 <sup>b</sup>



Two species represent the majority of county finfish landings. Black mullet (59.6) and grouper (15.2) collectively represent an average of 74.8 percent of all landings for the period 1970-72 (Table 20). Red snapper, Spanish mackerel, spotted sea trout and redfish together add an additional 12.1 percent to county landings. These six species represent 86.9 percent of the total. Red snapper became the second most important after black mullet to the county from the standpoint of dockside value (Table 20). Black mullet (28.6), red snapper (24.0), and grouper (21.5) constitute 74.1 percent of the total value of the landings in the county (Table 20).

Black mullet landings in the county increased dramatically in the mid 1950's from a low of 1.4 million pounds in 1954 to a high of 5.2 million pounds in 1957 (Table 23). Peak periods since that time occurred in the early 1960's and again in 1969 after several low volume years. Total dockside value of the mullet fishery increased steadily over time (Table 23). Grouper landings began increasing in 1962 after a ten-year period of relatively low volume (Table 23). Landings reached a maximum of slightly over 1 million pounds in both 1969 and 1970 with a small decline the next two years. The value of grouper landings also increased steadily to a record high of \$286 thousand in 1972. This is consistent with state-wide increases in grouper landings. Red snapper landings also became significant in 1962 and increased to a high of 704 thousand pounds in 1965 when a decline began. Landings fell to a nine-year low of 334 thousand pounds in 1972. State-wide landings of red snapper also declined throughout the late 1960's and early 1970's. Live bait shrimp landings increased in Manatee County to a high of 4.6 million head in 1972. Average bait shrimp landings from 1970-72 in the county represented 6.2 percent of total state landings.

Average black mullet price for 1970-72 was 8.1 cents per pound. This compares unfavorably with a state-wide average of 8.6 cents during the same period. The average price was 8.5 cents per pound or less in the county since 1968 (Table 23). Grouper prices reached a high of 29.3 cents per pound in 1972 after a substantial increase of 8.1 cents from the previous years. Until this increase, price changes averaged 1 to 3 cents per year after a low of less than 10 cents per pound in 1963 (Table 23). Average grouper price of 23.7 cents per pound for the period 1970-72 was 1.7 cents above average state-wide price for the same period. Red snapper prices also show substantial increases after a low of 26 cents per pound in 1961.

#### Pasco and Hernando Counties

Commercial fisheries are relatively limited in Hernando and Pasco Counties. The annual average volume of landings during 1970-72 was 688 thousand pounds which is less than one-half percent of total Florida landings and less than two percent of regional landings (Table 24). Landings varied considerably over the past 21 years. The only year landings



Table 23.--Species landings, values, and prices for Manatee County, 1952-1972

Year	Grouper			Black Mullet			Pompano		
	Pounds	Dollars	Cents/lb.	Pounds	Dollars	Cents/lb.	Pounds	Dollars	Cents/lb.
1970-72 Average	976,359	230,861	23.7	3,824,434	307,510	8.1	53,952	64,112	117.6
1972	977,503	286,212	29.3	3,748,190	302,104	8.1	75,774	92,762	122.4
1971	865,803	183,463	21.2	4,163,559	325,173	7.8	47,334	56,564	119.5
1970	1,085,772	222,909	20.5	3,561,554	295,253	8.3	38,749	43,011	111.0
1969	1,120,524	226,458	20.2	4,840,345	402,717	8.3	46,635	44,910	96.3
1968	864,524	151,724	17.6	2,588,960	220,838	8.5	32,985	20,899	63.4
1967	747,656	124,036	16.6	3,099,627	232,782	7.5	31,917	19,495	61.1
1966	967,499	140,191	14.5	3,778,953	267,928	7.1	84,976	58,056	68.3
1965	979,060	119,054	12.2	4,439,315	241,499	5.4	79,210	52,065	65.7
1964	512,821	55,077	10.7	4,396,905	242,269	5.5	63,663	39,509	62.1
1963	243,700	24,126	9.9	4,320,500	228,986	5.3	62,400	43,181	69.2
1962	230,259	25,559	11.1	3,320,825	192,608	5.8	28,655	20,431	71.3
1961	37,911	3,790	10.0	3,231,463	171,268	5.3	36,524	27,390	75.0
1960	24,828	2,731	11.0	3,939,895	224,574	5.7	56,284	34,784	61.8
1959	4,849			3,549,525			16,722		
1958	43,840			3,828,532			83,396		
1957	93,928			5,193,500			41,654		
1956	67,848			3,284,969			10,833		
1955	24,007			1,917,019			10,966		
1954	39,489			1,380,000			44,422		
1953	87,934			2,244,997			34,921		
1952	42,105			2,077,368			21,883		

Source: Computed from [1].

Table 23.--Species landings, values, and prices for Manatee County, 1952-1972--Continued

Year	Spotted Sea Trout			Red Snapper			Spanish Mackerel		
	Pounds	Dollars	Cents/lb.	Pounds	Dollars	Cents/lb.	Pounds	Dollars	Cents/lb.
1970-72 Average	147,111	44,127	30.1	263,214	257,197	65.9	228,983	28,752	12.2
1972	120,570	37,846	31.4	333,803	242,774	72.7	350,614	47,332	13.5
1971	128,186	38,263	29.8	431,903	276,979	64.1	184,152	20,661	11.2
1970	192,577	56,271	29.2	413,937	251,839	60.8	152,183	18,262	12.0
1969	141,759	42,117	29.7	380,039	213,164	56.1	126,258	13,219	10.5
1968	202,109	53,862	26.6	460,701	189,348	41.1	224,141	20,442	9.1
1967	181,395	45,984	25.4	474,320	188,542	39.7	165,320	16,367	9.9
1966	221,180	52,950	23.9	671,349	242,491	36.1	271,469	31,708	11.7
1965	230,792	55,575	24.1	703,596	249,988	35.5	337,494	40,837	12.1
1964	205,026	51,708	25.2	552,788	170,038	30.8	76,552	7,295	9.5
1963	180,400	42,214	23.4	272,300	71,887	26.4	155,400	14,144	9.1
1962	217,265	48,667	22.4	144,199	41,385	28.7	117,950	12,385	10.5
1961	173,225	38,976	22.5	3,911	1,017	26.0	149,154	16,407	11.0
1960	214,122	45,180	21.1	6,871	2,061	30.0	130,905	12,436	9.5
1959	197,879			1,641			69,866		
1958	267,152			13,345			189,925		
1957	172,691			23,434			53,729		
1956	110,676			18,192			23,488		
1955	95,063			6,275			40,482		
1954	112,847			9,238			44,804		
1953	185,504			9,142			44,936		
1952	296,377			10,806			24,641		

Not Available

Not Available

Not Available

Table 24.--Commercial landings and values of finfish and shellfish in Pasco and Hernando Counties, 1952-1972

Year	Pounds				Dollars			
	Finfish	Shellfish	Total	Percent of State of Region	Finfish	Shellfish	Total	Percent of State of Region
1972	955,956	0	955,956	.5	107,952	0	107,952	.2
1971	648,493	0	648,493	.4	99,165	0	99,165	.2
1970	458,748	0	458,748	.2	52,206	0	52,206	.1
1969 <sup>a</sup>	699,162	3,168	702,330	.4	85,586	3,168	88,754	.2
1968	344,408	0	344,408	.2	44,202	0	44,202	.1
1967	469,021	408	469,429	.2	43,223	404	43,627	.1
1966	500,002	2,754	502,756	.2	50,381	398	50,779	.1
1965	777,185	8,347	785,532	.4	63,631	4,270	67,901	.2
1964	562,629	306	562,935	.3	56,511	229	56,740	.2
1963	500,300	24,300	524,600	.3	40,475	7,613	48,088	.2
1962	803,310	57,386	860,696	.4	56,692	16,642	73,334	.2
1961	1,009,374	1,600	1,010,974	.5	60,786	640	61,426	.2
1960	735,461	0	735,461	.4	53,247	0	53,247	.2
1959	968,791	514	968,089	.5				
1958	894,138	0	894,138	.5				
1957	906,318	0	906,318	.6				
1956	953,982	0	953,982	.5				
1955	933,111	0	933,111	.4				
1954	830,318	0	830,318	.5				
1953	760,069	0	760,069	.4				
1952	586,134	0	586,134	.2				

<sup>a</sup> Does not include Hernando County.

Source: Computed from [1].

exceeded one million pounds was 1961. Since 1960 the value of landings increased from \$53 thousand to \$108 thousand in 1972. This is the highest value of landings recorded. The increase in value of landings is attributable to a general increase in price of all species.

Currently no shellfish are reported for Pasco and Hernando Counties. Black mullet is the most important species landed accounting for 57 percent of the 1970-72 volume of landings in both counties (Table 25). Grunt and grouper rank second and third with 17.2 percent and 11.3 percent of volume landed, respectively. Black mullet, grunt and grouper are also the leading species in value of landings accounting for 33.2, 21.4 and 19.9 percent of county landings, respectively. Live bait shrimping returned a total annual average value of 169 thousand dollars to the two counties from 1970-72 (Table 6). This represented almost 13 percent of total value in the state.

Black mullet landings varied considerably since 1952 and the overall trend is slightly downward. The peak years were between 1953 and 1962 when mullet landings were two to three times as large as the volume currently landed. Value of mullet landings are also down from the early 1960's levels but the downward trend in volume of landings was partly offset by price increases (Table 26).

Grunt and grouper landings both varied considerably from year to year during the past two decades. Overall landing of both species trended upward for the period. In percentage terms the value of grunt and grouper landings increased substantially. Both species have enjoyed considerable percentage price increases.

#### Pinellas County

Total landings in Pinellas County averaged 5.7 million pounds annually during 1970-72 which is an increase of 890 thousand pounds (19 percent) over the 1952-54 annual average (Table 27). Landings peaked during the 1960-65 period with an annual average in excess of 8 million pounds. Since then landings declined gradually to present levels. Pinellas County gained in relative importance in the state and region during the past two decades. Presently the county accounts for over 3 percent of state landings and 10 percent of regional landings.

Total value of landings since 1960 increased by nearly 50 percent even though pounds landed declined during the same period. This shows a considerable increase in average prices during the period. Pinellas County accounted for an average of 3.3 percent of the value of Florida landings from 1970-72 (Table 25). This exceeds slightly the average share of volume (3.1 percent) and indicates slightly higher average prices in the county than the state average price of all species.

Eighty-three percent of the volume of landings was made up of finfish and 17 percent shellfish during 1970-72 (Table 25). Value of finfish

Table 25.--Commercial landings and value of important species of finfish and shellfish in Pasco, Hernando, and Pinellas Counties, three-year average, 1970-1972

Species	Pasco and Hernando			Pinellas		
	Pounds	Percent of County	Dollars	Pounds	Percent of County	Dollars
Crevalle (Jack)	0	0.0	0	43,842	.8	1,611
Flounder	1,885	.3	678	4,950	.1	1,130
Grouper	77,610	11.3	17,158	2,183,486	38.2	488,237
Grunn	118,228	17.2	18,545	93,718	1.7	14,807
Black Mullet	392,967	57.0	28,778	1,428,130	25.1	120,308
Pompano	3,993	.6	5,572	9,649	.2	11,718
Redfish	3,734	.5	764	15,487	.3	2,310
Sea Bass	25,215	3.7	2,911	50,914	.9	6,547
Spotted Sea Trout	27,111	3.9	7,632	73,680	1.3	22,096
Sheepshead	5,222	.8	626	26,465	.5	2,897
Red Snapper	733	.1	579	210,282	3.7	147,506
Spanish Mackerel	5,170	.8	668	337,499	5.9	39,058
Other Finfish	25,864	3.8	2,530	244,342	4.3	29,686
Total Finfish	687,732	100.0	86,441	4,722,444	83.0	887,911
Stone Crab	0	0.0	0	14,276	.3	7,916
Spiny Lobster	0	0.0	0	591,812	10.2	385,759
Shrimp	0	0.0	0	344,371	6.1	205,142
Sponges	0	0.0	0	19,782	.4	178,201
Other Shellfish	0	0.0	0	68	a	14
Total Shellfish	0	0.0	0	970,309	17.0	777,032
Grand Total	687,732	100.0	86,441	5,692,753	100.0	1,664,943

<sup>a</sup>Less than .1 percent.

Source: Computed from [1].

Table 26.--Species landings, values, and prices for Pasco and Hernando Counties, 1952-1972

Year	Grouper			Sea Bass			Spotted Sea Trout		
	Pounds	Dollars	Cents/lb.	Pounds	Dollars	Cents/lb.	Pounds	Dollars	Cents/lb.
1970-72									
Average	77,610	17,158	22.3	25,215	2,911	10.9 <sup>b</sup>	27,111	7,632	29.9
1972	64,165	16,593	25.9	55,647	6,800	12.2	17,706	6,829	38.6
1971	100,902	21,150	21.1	0	0	0	28,622	8,366	29.2
1970	68,662	13,732	20.0	19,999	1,932	9.7	35,004	7,701	22.0
1969	31,689	6,214	19.6	124,083	15,424	12.4	41,343	12,133	29.3
1968	83,610	13,378	16.0	14,600	1,606	11.0	7,009	1,852	26.4
1967	71,268	7,419	10.4	0	0	0	18,867	4,834	25.6
1966	30,386	3,649	12.0	0	0	0	47,592	9,966	20.9
1965	6,168	700	11.3	0	0	0	73,867	15,800	21.4
1964	659	71	10.8	0	0	0	94,601	23,858	25.2
1963	3,700	366	9.9	0	0	0	55,500	12,987	23.4
1962	4,914	506	10.3	0	0	0	56,175	11,741	20.9
1961	2,229	223	10.0	0	0	0	38,392	7,947	20.7
1960	3,154	378	12.0	0	0	0	46,536	9,307	20.0
1959	7,361			0	0	0	45,041		
1958	1,606			0	0	0	21,814		
1957	90,673	Not Available		0	0	0	22,726	Not Available	
1956	3,443	Available		0	0	0	18,166	Available	
1955	317			0	0	0	22,010		
1954	685			0	0	0	37,361		
1953	5,111			0	0	0	18,476		
1952	21,329			0	0	0	29,658		

<sup>a</sup>Totals include Pasco County only.

<sup>b</sup>Two-year average.

Source: Computed from [1].

Table 26.--Species landings, values, and prices for Pasco and Hernando Counties, 1952-1972 -- Continued

Year	Grunt		Black Mullet		Pompano		
	Pounds	Dollars	Pounds	Dollars	Pounds	Dollars	Cents/lb.
1970-72 Average	118,228	18,545	392,967	28,779	3,993	5,572	93.2
1972	104,899	17,046	677,660	49,198	4,497	6,328	140.7
1971	183,985	28,720	232,871	18,350	7,481	10,387	138.9
1970	65,800	9,870	268,369	18,788	0	0	0
1969 <sup>a</sup>	141,207	18,851	283,217	22,827	208	172	82.7
1968	148,205	17,755	53,489	5,231	0	0	0
1967	125,820	12,569	210,274	13,289	537	285	53.1
1966	53,770	4,355	335,033	25,898	6,069	4,182	68.9
1965	24,690	2,121	556,979	33,140	161	99	61.5
1964	454	31	339,171	18,688	2,472	1,534	62.1
1963	300	22	373,900	19,817	1,200	830	69.2
1962	751	46	640,566	31,388	3,520	2,443	69.4
1961	299	15	925,523	47,202	2,435	1,558	64.0
1960	0	0	633,040	31,652	13,236	8,603	65.0
1959	2,424		890,426		644		
1958	1,770		843,517		122		
1957	8,439		698,363		24		
1956	490	Not Available	910,765	Not Available	45	Not Available	
1955	0		836,566		10		
1954	40		696,266		91		
1953	1,061		689,437		42		
1952	700		479,216		1,299		

Table 27. Commercial landings and values of finfish and shellfish in Pinellas County, 1952-1972

Year	Pounds			Dollars						
	Finfish	Shellfish	Total	Percent of State	Percent of Region	Total	Percent of State	Percent of Region		
1972	4,751,863	621,132	5,372,995	3.0	10.6	1,076,891	635,003	1,711,894	3.0	8.2
1971	4,865,348	327,336	5,192,684	2.9	10.2	866,045	363,205	1,229,250	2.7	10.7
1970	4,550,122	1,962,458	6,512,580	3.4	11.8	720,798	1,332,887	2,053,685	4.8	16.4
1969	5,829,752	387,980	6,217,732	3.5	10.7	949,073	422,934	1,372,007	3.3	11.7
1968	4,688,441	317,754	5,006,195	2.6	8.7	673,175	397,735	1,070,910	2.7	9.3
1967	6,714,192	501,806	7,215,998	3.5	11.2	834,810	494,679	1,329,489	4.0	13.3
1966	6,730,256	495,165	7,225,421	3.5	11.5	782,184	385,313	1,167,497	3.4	10.6
1965	7,396,291	1,010,762	8,407,053	4.0	11.2	779,088	668,501	1,447,589	4.1	11.0
1964	7,562,545	617,286	8,179,831	4.4	11.9	738,801	419,494	1,158,295	3.8	9.8
1963	7,976,800	735,255	8,712,055	4.5	12.9	694,853	475,955	1,170,808	4.0	10.0
1962	6,685,600	175,433	6,861,033	3.5	10.3	638,267	436,861	1,075,128	3.3	7.8
1961	8,235,047	107,621	8,342,668	4.1	12.3	657,738	371,197	1,028,935	3.8	9.5
1960	7,972,560	76,219	8,048,779	4.1	11.4	738,930	301,227	1,040,157	3.9	9.1
1959	5,746,524	155,231	5,901,755	2.8	8.9					
1958	5,458,070	594,486	6,052,556	3.4	9.0					
1957	6,721,897	67,042	6,788,939	4.1	10.5					
1956	5,218,225	61,969	5,280,194	3.0	8.3					
1955	5,173,414	171,811	5,345,225	2.5	8.5					
1954	4,308,646	105,512	4,414,158	2.5	7.3					
1953	4,544,088	249,344	4,793,432	2.3	7.2					
1952	4,719,375	482,711	5,202,086	2.0	9.6					

Not Available

Source: Computed from [1].



landings were 53.3 percent and shellfish 46.7 percent of the county total. Volume of finfish landed increased during the first part of the 1952-72 period reaching a peak of over 8 million pounds in 1961 and then declining to current levels only slightly above the 1952-54 average (Table 27). Shellfish landings are currently above the average for the early 1950's. However, because of considerable year to year variation a definite trend is hard to identify. The average price of finfish increased sufficiently between 1960 and 1972 to offset the decline in landings and resulted in an increase in total value of finfish landings. The value of shellfish landings also increased over the 1960-72 period but with much more year to year variation than experienced in the value of finfish landings.

Grouper are the most important finfish in Pinellas County. Grouper landings account for over 38 percent of average annual volume landed from 1970-72. Black mullet and spiny lobsters are second (25.1 percent) and third (10.2 percent) in importance. Grouper landings steadily increased over the 21 year period analyzed (Table 28). Black mullet landings were much more variable and reached a peak in the early 1960's. Black mullet landings have since declined to levels slightly below the 1952-54 average. Spiny lobsters landings have become important since 1970. Other species of importance in the county are shrimp, Spanish mackerel and redfish accounting for 6.1, 5.9 and 3.7 percent of the volume of landings during 1970-72. Live bait shrimp landings in the county have declined from a high of about 30 percent of the state total since 1960 (Table 6). Average annual landings from 1970-72 represented 17.7 percent of the state total with a value of \$170 thousand.

Several of the same species are of significant importance in terms of value of landings. Grouper is the most important representing 29.2 percent of the value of county landings. Spiny lobster, shrimp, sponge, red snapper and mullet account for 23.2, 12.3, 10.7, 8.9 and 7.2 percent of county value of landings, respectively. With the exception of black mullet and sponge, the value of landings of all of the above species increased considerably since 1960 (Table 28).

Prices received for all major species landed in Pinellas County increased substantially since 1960 with the exception of sponge. Sponge prices reached a high of over \$10.00 per pound between 1965 and 1968 but have since declined to price levels received during the first part of the 1960 decade. Grunt and red snapper price increases on a percentage basis were the most significant.

#### Sarasota County

Commercial landings in Sarasota County show a slight downward trend since maximum landings of 2.8 million pounds were reported in 1954. This maximum occurred after substantial increases from an all-time low of 737 thousand pounds in 1955 (Table 29). These major fluctuations were the

Table 28.--Species landings, values and prices for Pinellas County, 1952-1972

Year	Black Mullet			Grouper			Red Snapper		
	Pounds	Dollars	Cents/lb.	Pounds	Dollars	Cents/lb.	Pounds	Dollars	Cents/lb.
1952-72 Average	1,428,130	120,308	8.5	2,183,846	488,237	22.4	210,282	147,506	69.2
1972	1,200,444	105,278	8.8	2,188,751	623,794	28.5	258,969	188,891	72.9
1971	1,600,177	132,494	8.3	2,147,808	442,663	20.6	226,226	161,547	71.4
1970	1,483,769	123,153	8.3	2,214,978	398,253	18.0	145,650	92,080	63.2
1969	1,986,696	163,306	8.2	2,907,582	551,278	19.0	219,282	127,184	58.0
1968	1,466,568	109,993	7.5	2,071,893	354,915	17.1	225,096	93,032	41.3
1967	2,694,161	180,778	6.7	2,278,951	332,271	14.6	447,919	179,123	40.0
1966	3,009,736	216,701	7.2	2,656,636	323,313	12.2	413,569	151,325	36.6
1965	3,565,206	194,304	5.5	2,416,625	276,704	11.5	518,578	175,072	33.8
1964	3,899,247	214,849	5.5	2,457,654	263,952	10.7	510,001	156,876	30.8
1963	4,489,000	237,918	5.3	2,020,600	200,039	9.9	509,300	134,455	26.4
1962	3,312,893	188,835	5.7	2,115,001	217,845	10.3	402,751	117,201	29.1
1961	5,143,468	282,891	5.5	1,813,939	177,660	9.8	316,729	88,684	28.0
1960	4,742,915	265,603	5.6	1,840,118	206,093	11.2	475,475	131,231	27.6
1959	2,843,176			1,538,758			588,851		
1958	2,929,646			1,171,456			524,378		
1957	3,486,963			1,740,635			405,402		
1956	2,798,859			1,565,663			304,145		
1955	2,899,533			1,047,452			283,976		
1954	1,922,692			967,702			344,337		
1953	1,801,734			975,009			277,386		
1952	2,274,106			954,938			327,136		

Source: Computed from [1].





result primarily of black mullet landings. Sarasota County landings normally provide about 1 percent of state and 3 to 4 percent of regional landings (Table 29). The absolute value of landings has not changed rapidly since 1960. A maximum dockside value of \$281 thousand was reported in 1966 with a minimum value of \$170 thousand occurring in 1963 (Table 29). Large absolute price increases have not occurred for the important species in the county.

Finfish landings contributed 98.7 percent of all landings for the period 1970-72 (Table 30). Shellfish landings have always been minimal in the county with a maximum of 151 thousand pounds reported in 1965.

Black mullet (59.2), grouper (10.5), and Spanish mackerel (9.5) provided an average of 79.2 percent of all landings for the period 1970-72. Pompano became important in value to the county by providing 16.8 percent of county value from only 1.8 percent of total county landings. Spotted sea trout and stone crabs are also of minor importance in value (Table 30).

Black mullet landings demonstrated almost identical historical patterns to total county landings since it is the major species in the county. Maximum landings occurred in 1966 at 1.7 million pounds (Table 31). The value of the mullet fishery also declined somewhat after peaks in the late 1960's. Grouper landings also declined in Sarasota County in the last few years after substantial increases in 1959 and 1961 to 536 and 455 thousand pounds, respectively. A similar trend occurred in the value of the grouper fishery (Table 31). Spanish mackerel landings increased over time with the exception of one low volume year in 1970 (Table 31). Live bait shrimping is minimal in Sarasota County.

Black mullet prices in the county exhibit similar trends as in many of the other counties in the region. Average price for the 1970-72 period was 8.2 cents per pound or slightly lower than the state-wide average price of 8.6 cents (Table 31). Grouper prices averaged 22.6 cents per pound for the same period with a substantial increase of 10 cents per pound shown for 1972 over 1971. This average of 22.6 cents was slightly higher than the state average. Spanish mackerel prices averaged 12.3 cents per pound for 1970-72. This was a little less than 1 cent per pound above the state average. Annual increases in the county have been minimal.

Table 30.--Commercial landings and value of important species of finfish and shellfish in Sarasota County, three-year average, 1970-1972

Species	Sarasota			
	Pounds	Percent of County	Dollars	Percent of County
Bluefish	26,033	1.4	3,489	1.4
Crevalle (Jack)	53,032	2.9	1,688	.7
Grouper	190,545	10.5	39,925	16.2
King Mackerel	25,341	1.4	2,903	1.2
Black Mullet	1,073,184	59.2	87,906	35.7
Silver Mullet	51,324	2.8	4,105	1.7
Pompano	33,028	1.8	41,218	16.8
Redfish	21,925	1.2	3,508	1.4
Spotted Sea Trout	46,546	2.6	14,730	6.0
Spanish Mackerel	171,485	9.5	20,717	8.4
Other Finfish	98,846	5.5	13,178	5.4
Total Finfish	1,791,289	98.7	233,367	94.9
Stone Crab	18,232	1.0	10,084	4.1
Other Shellfish	4,884	.3	2,453	1.0
Total Shellfish	23,116	1.3	12,537	5.1
Grand Total	1,814,405	100.0	245,904	100.0

Source: Computed from [1].

Table 31.--Species landings, values, and prices for Sarasota County, 1952-1972

Year	Grouper			Black Mullet			Pompano		
	Pounds	Dollars	Cents/lb.	Pounds	Dollars	Cents/lb.	Pounds	Dollars	Cents/lb.
1970-72									
Average	190,545	39,925	22.6	1,073,184	87,906	8.2	33,028	41,218	121.9
1972	108,959	32,121	29.5	1,113,516	89,638	8.0	48,971	65,528	133.8
1971	180,941	36,097	19.9	834,581	66,516	8.0	25,438	30,736	120.8
1970	281,736	51,558	18.3	1,271,454	107,565	8.5	24,676	27,390	111.0
1969	308,554	55,756	18.1	1,179,369	108,974	9.2	24,981	24,057	96.3
1968	316,671	53,232	16.8	964,946	79,801	8.3	37,141	23,213	62.5
1967	300,882	45,162	15.0	1,585,347	117,633	7.4	33,434	21,669	64.8
1966	359,328	43,263	12.0	1,700,565	124,311	7.3	34,862	24,776	71.1
1965	298,159	32,022	10.7	1,600,681	86,437	5.4	28,671	18,163	63.3
1964	325,700	34,980	10.7	1,059,371	58,371	5.5	11,956	7,420	62.1
1963	330,200	32,690	9.9	1,117,700	59,238	5.3	21,300	14,740	69.2
1962	277,603	29,981	10.8	1,477,961	85,722	5.8	10,697	8,879	83.0
1961	455,139	49,155	10.8	1,542,229	89,500	5.8	17,662	12,946	73.3
1960	265,400	31,583	11.9	1,377,562	70,255	5.1	56,219	39,353	70.0
1959	535,731			1,567,568			32,762		
1958	272,134			946,829			48,470		
1957	35,532	Not Available		760,012	Not Available		10,961	Not Available	
1956	11,691	Available		706,378	Available		10,296	Available	
1955	1,508			537,409			6,063		
1954	56,082			886,321			17,892		
1953	231,468			1,186,140			47,735		
1952	197,929			1,156,208			17,433		

Source: Computed from [1].

Table 31.--Species landings, values, and prices for Sarasota County, 1952-1972-- Continued

Year	Spotted Sea Trout		Spanish Mackerel		Stone Crab				
	Pounds	Dollars	Pounds	Dollars	Pounds	Dollars			
		Cents/lb.		Cents/lb.		Cents/lb.			
1970-72 Average	46,546	14,730	32.1	171,485	20,717	12.3	18,232	10,084	53.5
1972	26,802	9,112	34.0	188,433	26,889	14.3	23,522	15,355	65.3
1971	42,962	13,515	31.5	254,715	26,719	10.5	13,383	6,259	46.8
1970	69,873	21,563	30.9	71,306	8,542	12.0	17,790	8,637	48.5
1969	61,469	19,289	31.4	110,617	13,351	12.1	11,574	5,704	49.3
1968	81,847	22,925	28.0	140,135	14,042	10.0	31,867	12,454	39.1
1967	80,431	21,346	26.5	146,206	14,855	10.2	60	21	35.0
1966	72,899	17,853	24.5	162,405	19,456	12.0	840	307	36.5
1965	95,257	22,414	23.5	167,020	22,815	13.7	3,178	1,162	36.6
1964	69,920	17,634	25.2	10,115	964	9.5	11,750	3,645	31.0
1963	77,500	18,134	23.4	49,300	4,485	9.1	300	94	31.3
1962	58,093	14,059	24.2	52,042	6,349	12.2	340	126	37.1
1961	68,534	16,105	23.5	36,838	4,421	12.0	4,776	1,313	27.5
1960	113,906	25,971	22.8	70,999	6,532	9.2	5,825		
1959	127,771			62,822			8,870		
1958	128,462			26,962			16,632		
1957	78,685			18,103			7,327		Not Available
1956	62,527			14,381			5,139		Available
1955	35,807			13,756			0		
1954	64,869			5,406			1,100		
1953	60,456			43,760			2,751		
1952	96,730			45,824			1,078		



### SUMMARY

Landings along the West Coast of Florida have varied substantially since 1952. A maximum of 75 million pounds was reported in 1965. Landings in 1972 of 50.6 million pounds are the lowest in the past twenty years. A downward trend has been noticed since 1965. This region has landed slightly more than 28 percent of the state total for the last three years--down from about 40 percent in the late 1950's.

The total value of landings has not changed substantially since 1960 despite the decline in landings. Total dockside value in 1972 was slightly over \$14.6 million even though landings were lower during 1972 than in any other year of the analysis.

Finfish landings in the region averaged 36 million pounds for the last three years while shellfish landings averaged 16.3 million pounds. Eight species landed in the region account for over 50 percent of state landings of that species. These species were grunt, black mullet, pompano, grouper, spotted sea trout, stone crabs, jack crevalle and sponge. Seven species are responsible for over 80 percent of the region's total.

Although finfish landings were more than twice as large in volume as shellfish landings, the dockside value of shellfish was slightly over \$7.0 million as compared to finfish at \$5.9 million. Shrimp was the most valuable species landed at \$5.2 million. Black mullet, grouper, and pompano were next at \$1.6, \$1.1 and \$.95 million, respectively.

Based on the average for the last three years, Lee County landed the largest percentage (30.8) of total finfish and shellfish of all counties included in the region. Manatee, Pinellas, and Collier Counties landed 12.3, 10.9, and 10.1 percent, respectively. The remaining counties ranged from 8.4 percent in Citrus County to a low of 1.3 percent in Pasco and Hernando Counties combined.

Four counties have shown overall increases in total landings when comparing the 1960-64 average with average landings in 1968-72 (See Table 32). Three of these (Collier, Lee and Manatee) suffered declines in shellfish with the increase coming from finfish. General trends for this time period are given in Table 32 for the major species in each county.

Table 32.---General trends in landings from 1960-64 to 1968-72 for important species of finfish and shellfish in each West Coast county.\*

Species	County										
	Charlotte	Citrus	Collier	Dixie-Taylor	Hillsborough	Lee	Levy	Manatee	Pasco-Hernando	Pinellas	Sarasota
Total	D	I	I	***	D	I	***	I	D	D	D
Finfish	D	I	I	D	D	I	D	I	D	D	D
Shellfish	D	I	D	***	D	D	***	D	D	I	D
Grouper	I	I	I	I	D	I	I	I	I	I	D
Grunt											
King Mackerel			I								
Menhaden				D							
Black Mullet	D	I	D	D	D	I	D	D	D	D	D
Pompano	D		I		I	I		D	D	I	I
Sea Bass											
Spotted Sea Trout	D	D		D	D	I	D	D	D	D	D
Red Snapper								I			
Spanish Mackerel								I			I
Trash Fish			I	I						D	
Blue Crab	D	**		**	D		D				I
Stone Crab		D	I	D			I			I	
Spiny Lobster					I		I				
Oysters		D					I			I	
Shrimp	I				D	D	I			I	
Sponge										D	

\* An increase (I) was indicated if the 1968-72 average was greater than the 1960-64 average. A decrease (D) was indicated for the opposite.

\*\* Blue Crab data included with Levy and Dixie Counties and reported in Levy County.

\*\*\* Comparisons not possible since 1960-62 and Blue Crab landings included in Levy County.

SOURCE

1. Florida Department of Natural Resources. Summary of Florida Commercial Marine Landings. Tallahassee, Florida: 1952-1972.