

Final Environmental Impact Statement

for the

Generic Essential Fish Habitat Amendment to the following fishery management plans of the Gulf of Mexico (GOM):

**SHRIMP FISHERY OF THE GULF OF MEXICO
RED DRUM FISHERY OF THE GULF OF MEXICO
REEF FISH FISHERY OF THE GULF OF MEXICO
STONE CRAB FISHERY OF THE GULF OF MEXICO
CORAL AND CORAL REEF FISHERY OF THE GULF OF MEXICO
SPINY LOBSTER FISHERY OF THE GULF OF MEXICO AND SOUTH ATLANTIC
COASTAL MIGRATORY PELAGIC RESOURCES OF THE GULF OF MEXICO AND
SOUTH ATLANTIC**



APPENDIX D

DESCRIPTIONS OF FISHING COMMUNITIES

March 2004

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TABLE OF CONTENTS

1	ALABAMA FISHING COMMUNITIES	7
1.1	Fairhope (36532).....	11
1.2	Gulf Shores, Alabama (36542).....	14
1.3	Orange Beach, Alabama (36561).....	17
1.4	Bayou La Batre (36509).....	20
1.5	Dauphin Island (36528).....	23
2	FLORIDA FISHING COMMUNITIES.....	25
2.1	Pensacola, Florida (32501, 32503, 32504, 32506, 32507, 32508, 32514).....	29
2.2	Gulf Breeze, Florida (32561, 32566).....	32
2.3	Ft. Walton Beach, Florida (32547, 32548).....	35
2.4	Destin, Florida (32541).....	38
2.5	Panama City, Florida (32401, 32403, 32404, 32405, 32408, 32409).....	41
2.6	Panama City Beach, Florida (32413, 32417).....	44
2.7	Port St. Joseph, Florida (32456).....	47
2.8	Apalachicola, Florida (32320).....	50
2.9	Eastpoint, Florida (32328).....	53
2.10	Carrabelle, Florida (32322).....	56
2.11	St. Marks, Florida (32355).....	59
2.12	Horseshoe Beach, Florida (32648).....	62
2.13	Cedar Key, Florida (32625).....	65
2.14	Yankeetown, Florida (34498).....	68
2.15	Inglis, Florida (34449).....	71
2.16	Crystal River, Florida (34428, 34429).....	73
2.17	Homosassa, Florida (34446, 34448).....	76

2.18	New Port Richey, Florida (34652, 34653, 34654, 34655).....	79
2.19	Tarpon Springs, Florida (34689).....	82
2.20	Clearwater, Florida (33755, 33756, 33759-65).....	85
2.21	Madeira Beach, Florida (33708, 33738).....	88
2.22	St. Petersburg, Florida (33701-16).....	91
2.23	Tampa, Florida	94
2.24	Cortez, Florida (34215).....	97
2.25	Matlacha (33993).....	100
2.26	Bokeelia (33922).....	102
2.27	Ft. Meyers Beach, Florida (33931, 33932).....	104
2.28	Naples, Florida (34102-05, 34108-10, 34112-14, 34116, 34117, 34119, 34120).....	107
2.29	Marco Island/Goodland, Florida (34145, 34114).....	110
2.30	Everglades City, Florida (34139).....	113
2.31	Key Largo, Florida (33037).....	116
2.32	Islamorada, Florida (33036).....	119
2.33	Marathon, Florida (33050, 33051, 33052).....	122
2.34	Big Pine Key-Summerland Key, Florida (33042, 33043).....	125
2.35	Key West, Florida (33040, 33041).....	128
3	LOUISIANA FISHING COMMUNITIES.....	131
3.1	Venice, Louisiana (70091).....	135
3.2	Empire, Louisiana (70041).....	138
3.3	Grand Isle, Louisiana (70358).....	141
3.4	Golden Meadow, Louisiana (70357).....	144
3.5	Cutoff, Louisiana (70345).....	147
3.6	Chauvin, Louisiana (70344).....	150
3.7	Dulac, Louisiana (70353).....	153
3.8	Houma, Louisiana (70363, 70364).....	156

3.9	Delcambre, Louisiana (70528).....	159
3.10	Morgan City, Louisiana (70380).....	162
3.11	Cameron, Louisiana (70631).....	165
4	MISSISSIPPI FISHING COMMUNITIES.....	169
4.1	Pascagoula, Mississippi (39567, 39581).....	174
4.2	Gautier, Mississippi (39553).....	177
4.3	Biloxi, Mississippi (39530, 39531, 39532, 39534).....	180
4.4	Gulfport, Mississippi (39501, 39503, 39507).....	183
5	TEXAS FISHING COMMUNITIES	187
5.1	Port Arthur, Texas (77640, 77642).....	188
5.2	Galveston, Texas (77550, 77551, 77554).....	191
5.3	Freeport, Texas (77541).....	194
5.4	Palacios, Texas (77465).....	197
5.5	Port Lavaca, Texas (77979).....	200
5.6	Seadrift, Texas (77983).....	203
5.7	Rockport, Texas (78382).....	206
5.8	Port Aransas (78373).....	209
5.9	Aransas Pass.....	212
5.10	Brownsville, Texas (78520, 78521, 78522, 78523, 78526).....	214
5.11	Port Isabel, Texas (78578, 78597).....	217
5.12	South Padre Island, Texas (78597).....	220

1 ALABAMA FISHING COMMUNITIES

Although Alabama's coastline is relatively short, it is home to a large number of charter and head boat permits. In fact, the majority of permits found in Alabama are for charter fishing as shown in Table D.1. Orange Beach, Dauphin Island, Fairhope, Mobile and Gulf Shores were all ports included in the Sutton et al. (1999) research on charter and head boats.

Yet, the permit data, as mentioned before, does not capture the full range of the shrimp fishery since permits have not been fully implemented at this time. It is possible that the shrimp permit would be the most numerous if all permits had been applied for and received. While the permit system has been in place for almost one year, there is some concern that vessel owners may have not yet finished their application process. Of the shrimp permits that are included there are 105 in Alabama thus far and 68 rock shrimp permits.

Table D.1. Number of Federal Permit Types for Alabama as Homeport State (NMFS 2002).

Type of Permit	Number
Shrimp	105
Commercial King Mackerel	9
Commercial Spanish Mackerel	8
Reef Fish	27
Red Snapper License Class 1	4
Red Snapper License Class 2	18
Commercial Spiny Lobster	7
Charter/Head boat for Coastal Pelagics	151
Charter/Head boat for Reef Fish	159
Swordfish	2
Shark	2
Rock Shrimp	68
Federal Dealers	14

Table D.2. Gear Type by Homeport in Alabama (NMFS 2002).

Gear Type	Number
Shrimp Gear	75
Fish Trap Gear	1
Gill Net Gear	5
Reef Fish Bandit	28
Handline/Troll	44
Rod & Reel	166
Surface Longline	3
Bottom Longline	4
Lobster Trap	2
Diver	42
Other	3

As with permits, the prevalent gear type in Alabama is rod and reel, which is indicative of the large presence of the charter/head boat industry (Table D.2). Although only 72 vessels reported using shrimp gear, this does not include those vessels from the most recent shrimp permitting system. The number of shrimp vessels in Alabama exceeds that number significantly.

The importance of the shrimping industry to Alabama is reinforced in Table D.6 where landings and value of pounds landed with otter trawls (shrimp gear) far exceed other gear types. Otter trawls are the primary gear used in the Gulf shrimp industry.

Table D.3. Pounds Landed and Dollar Value by Gear Type for Alabama (NMFS 2002)

Gear Type	Pounds landed	Dollar Value
Butterfly Nets	210,350	499,755
Trawls, Unspecified	13,694	6,162
Otter Trawl Bottom, Shrimp	20,035,760	56,242,348
Pots And Traps, Crab, Blue	4,770,866	3,075,838
Pots And Traps, Crab, Other	4,757	6,057
Gill Nets, Drift, Runaround	4,456,814	2,023,433
Lines Hand, Other	143,661	298,910
Rod and Reel	11,224	20,687
Lines Long Set With Hooks	315	189
Lines Long, Reef Fish	72,411	120,929
Cast Nets	9,866	5,920
Spears	7,324	14,587
Dredge Oyster, Common	30,024	69,207
Tongs and Grabs, Oyster	761,342	1,684,790
Diving Outfits, Other	542	1,478

There were over 250,000 anglers estimated to have participated in Alabama's Marine recreational fishery in 1998 according to the MRFSS and that number increased to over 500,000 by 2001 (Fig.D.1) Alabama recreational anglers were evenly divided their area of residence when surveyed with 39% from instate coastal counties, 39% instate non-coastal counties and 22% from out of state.

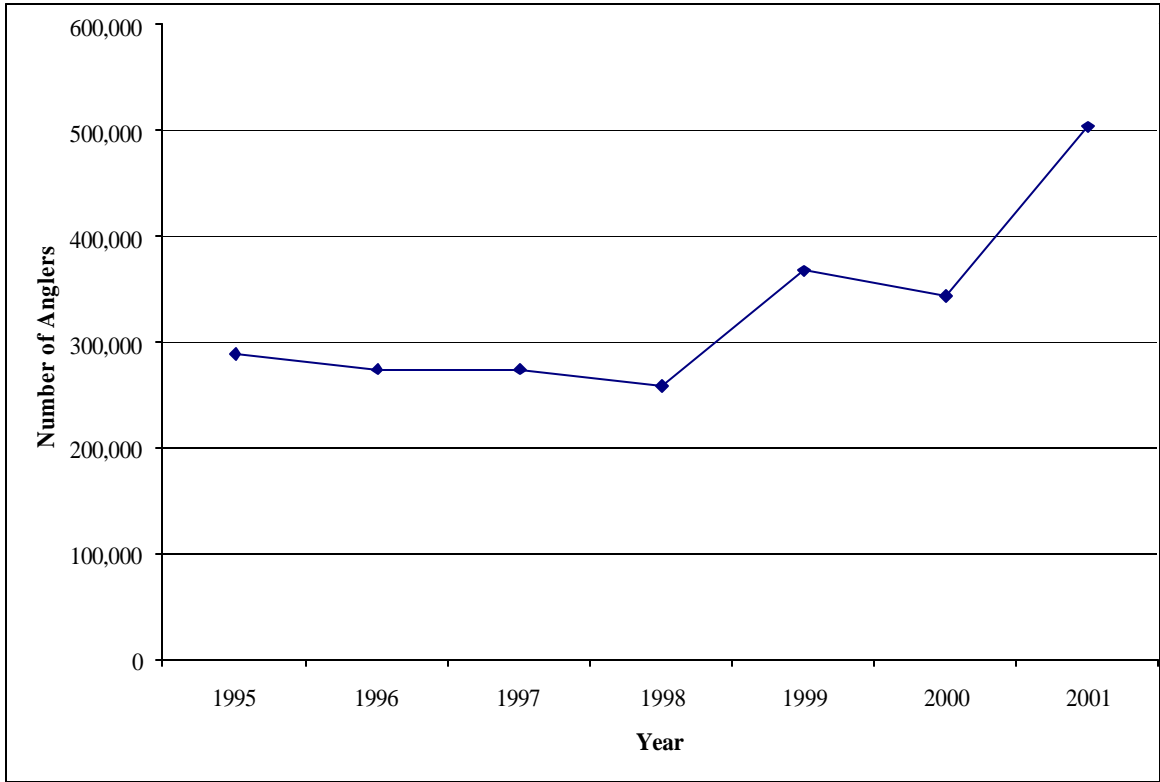


Figure D.1. Marine Recreational Anglers in Alabama 1995-2001 (NMFS 2002)

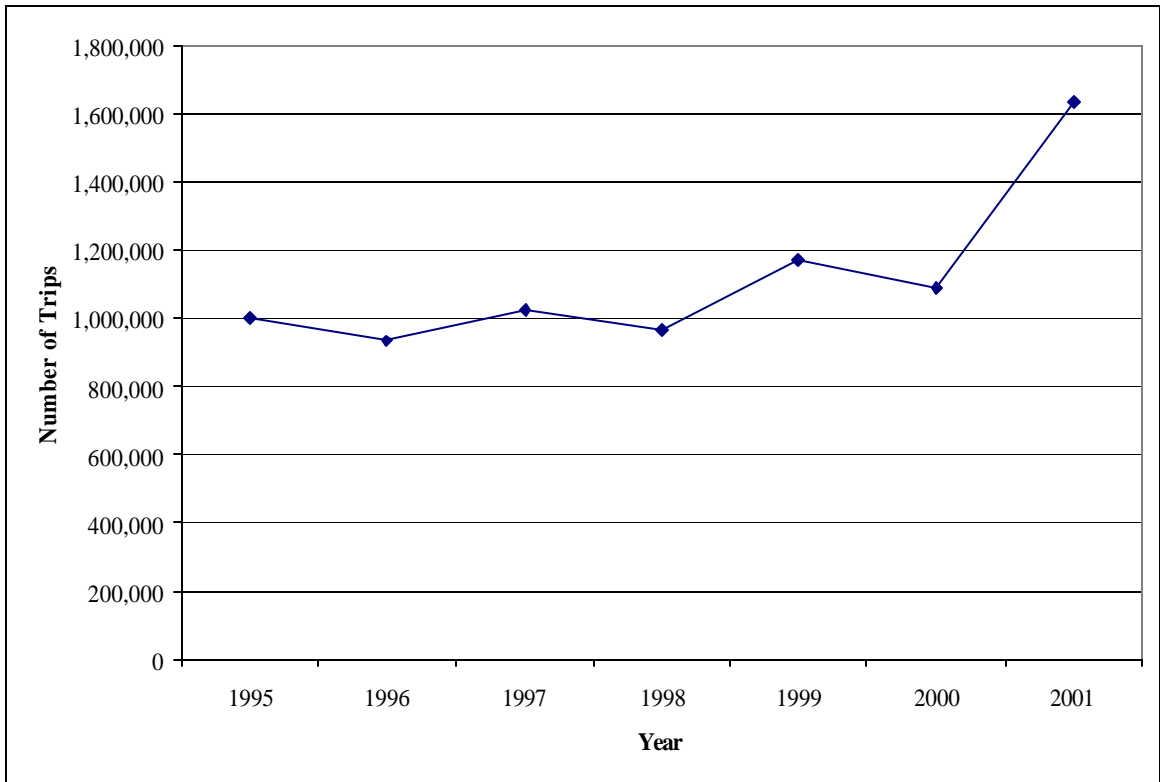


Figure D.2. Marine Recreational Fishing Trips in Alabama 1995-2001 (NMFS 2002)

The majority (53%) of the 968,000 saltwater fishing trips estimated to have been made that in 1998 were in private/rental boats, with 40% from the shore and 7% from party and charter boats. Of those fishing trips 44% were estimated to have been made in state waters and 35% in inland waters. Only 21% of those trips were reported to have been made in federal waters. The number of trips has risen dramatically from approximately 1 million in 1995 to over 1.6 million in 2001 (Personal communication from the National Marine Fisheries Service, Fisheries Statistics and Economics Division 2002)

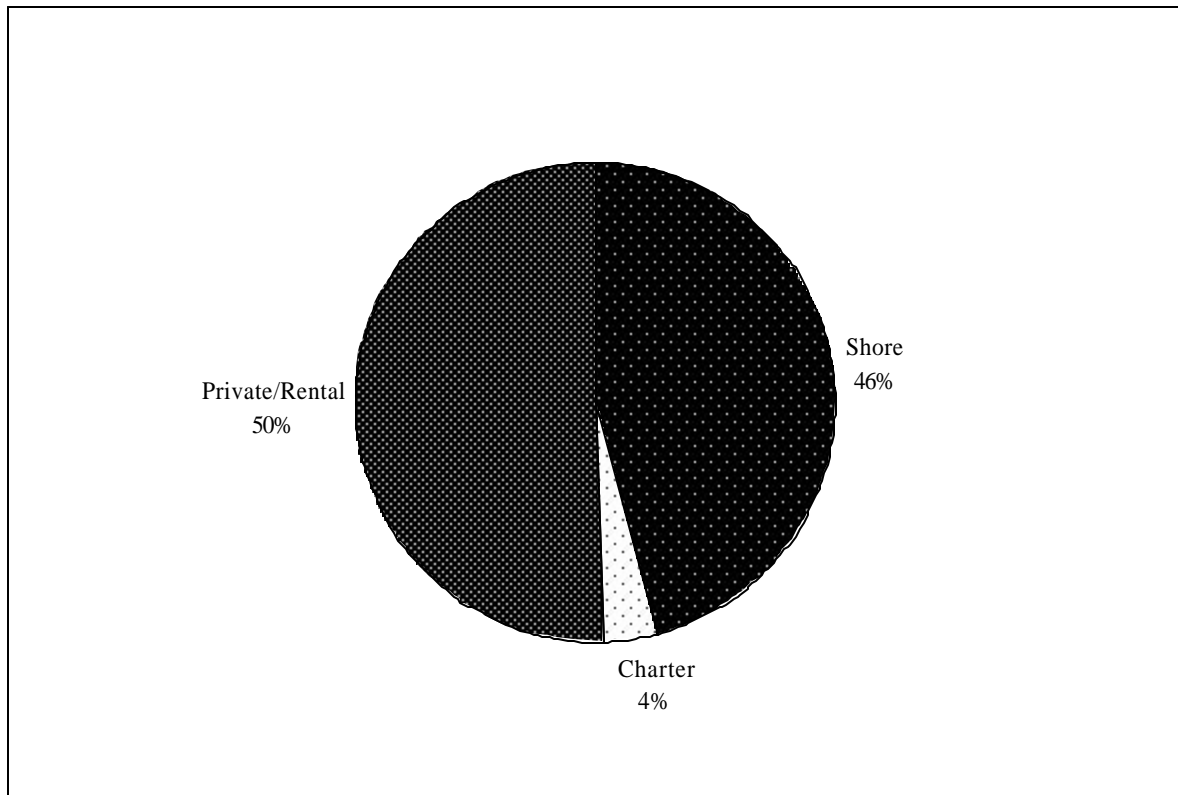


Figure D.3. Marine Recreational Fishing Trips by Mode in Alabama 2001 (NMFS 2002)

The type of trip has not changed much since 1998 with 50% private and 46% from shore according to Figure D.3. The number of trips on charter or party boats has dropped slightly to 4% in 2001.

While the communities listed below have been selected to represent those communities from this state that may be impacted by fisheries regulation, others may meet future guidelines that are not yet available to define fishing communities. For that reason the following communities are included as possible fishing communities that were excluded but may require some consideration as communities that could potentially be impacted by council action, but were not included within this initial exercise. This list of communities may be commonly considered fishing communities but were not included in the document due to a variety of reason. The list consists of the following communities: Coden and Bayou la Batre.

1.1 Fairhope (36532)

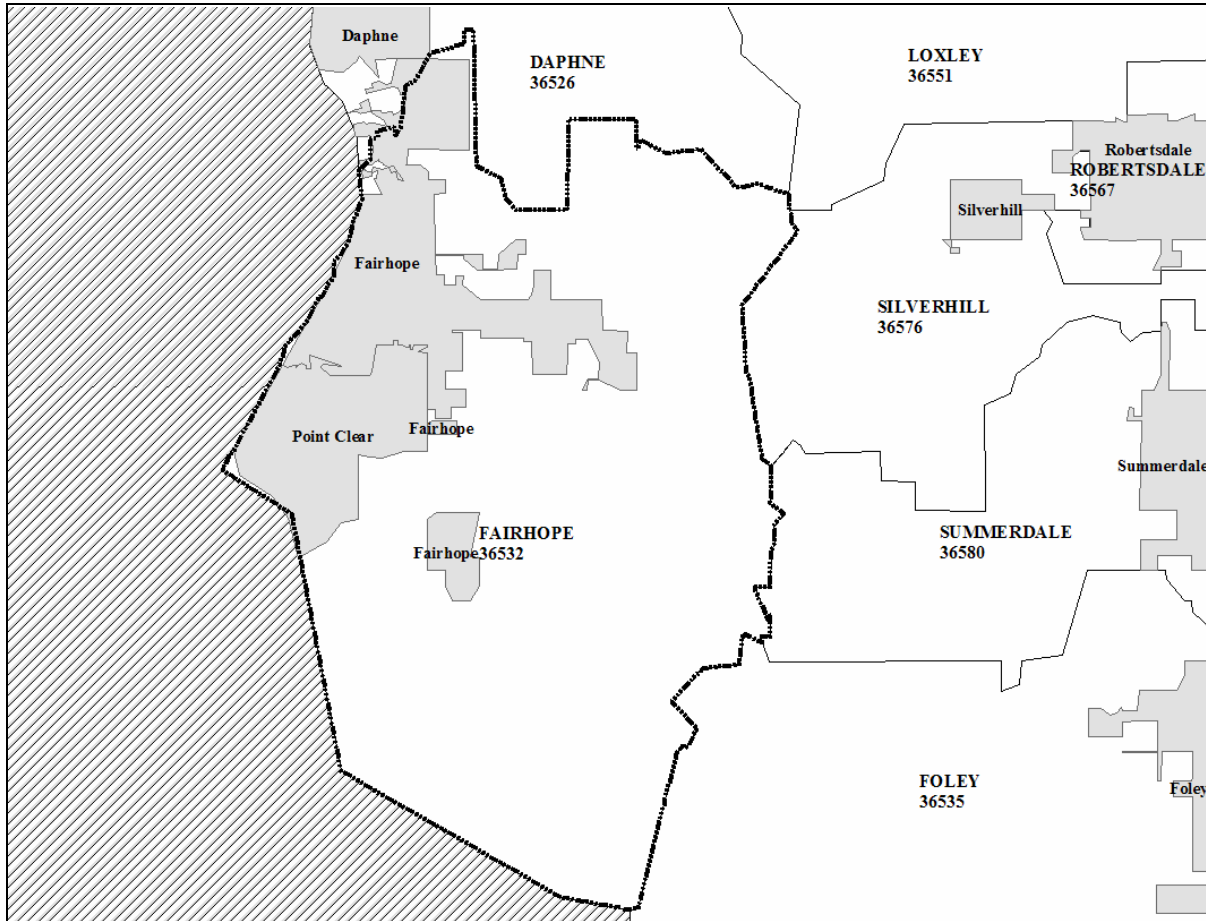


Figure D.4. Fairhope, Alabama Zip code Boundary and Census Designated Place Boundaries (U.S. Census Bureau, 2002).

Fairhope is located in Baldwin County on the eastern shore of Mobile Bay. The Fairhope zip code boundary includes not only the Fairhope CDP, but also that of Point Clear. It encompasses a much larger area than both CDPs combined (Figure D.4). Permit data generated by zip code will include all those permits within the larger zip code boundary. Census demographic data are provided for the Fairhope CDP which is spread out over the zip code boundary.

The number of vessels which call Fairhope their homeport is quite small with only 5. A few more owners have federal permits within the zip code area with nine altogether (Table D.4). The majority of permit holders own rock shrimp vessels with 4 reporting Fairhope as their homeport and one other vessel with a rock shrimp permit reporting residence within the zip code area.

Table D.4. Federal Permit Type by Homeport and Zip code in Fairhope, Alabama (NMFS 2002).

Type of Permit	Homeport	Zip code
Shrimp	0	0
Commercial King Mackerel	0	0
Commercial Spanish Mackerel	0	0
Reef Fish	0	0
Red Snapper License Class 1	0	0
Red Snapper License Class 2	0	0
Commercial Spiny Lobster	0	0
Charter/Head boat for Coastal Pelagics	1	3
Charter/Head boat for Reef Fish	1	4
Swordfish	0	0
Shark	0	0
Rock Shrimp	4	5
Federal Dealers	-	0

As expected the predominant gear type is shrimp gear, but there are vessels which use rod & reel and also bottom longline gear (Table D.5).

Table D.5. Gear Type by Homeport and Zip code in Fairhope, Alabama (NMFS 2002).

Gear Type	Number of Vessels reporting Gear Type	
	Homeport	Zip code
Shrimp Gear	4	5
Fish Trap Gear	0	0
Gill Net Gear	0	0
Reef Fish Bandit	0	0
Handline/Troll	0	1
Rod & Reel	1	4
Surface Longline	0	0
Bottom Longline	0	2
Lobster Trap	0	0
Diver	0	1
Other	0	0

According to the employment numbers from the zip code business patterns (Table D.6), all of Fairhope's fishing employment is in the marina sector which suggests an emphasis upon the charter/head boat sector rather than the commercial, as supported by the permit and gear data. There was no other employment reported for other sectors included in fishing employment.

Table D.6. Total Other Employment and Employment in Fishing Related Industry for Fairhope, Alabama (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	Number Employed
Total Other Employment		6044
Fishing	114100	0
Seafood Canning	311711	0
Seafood Processing	311712	0
Boat Building	336612	0
Fish and Seafood	422460	0
Fish and Seafood Markets	445220	0
Marinas	713930	37
Total Fishing Employment		37

Vulnerability Index

The Services sector was the primary growth component for Baldwin County. Fairhope showed growth in the Services sector from 22.8% in 1980 to 36.9% in 2000. The county had a negative industrial mix due to decreases primarily in the manufacturing sector and the county had a positive competitive share. Fairhope poverty rate was 7.3% for 2000 compared to 10.0% for Baldwin County. The average wage was higher than the county average in 2000. The sum of the index score for Fairhope is positive three.

National growth component	1
Industrial mix	-1
Competitive share	1
Poverty component	1
Average wage/salary component	1
Total	3

1.2 Gulf Shores, Alabama (36542)

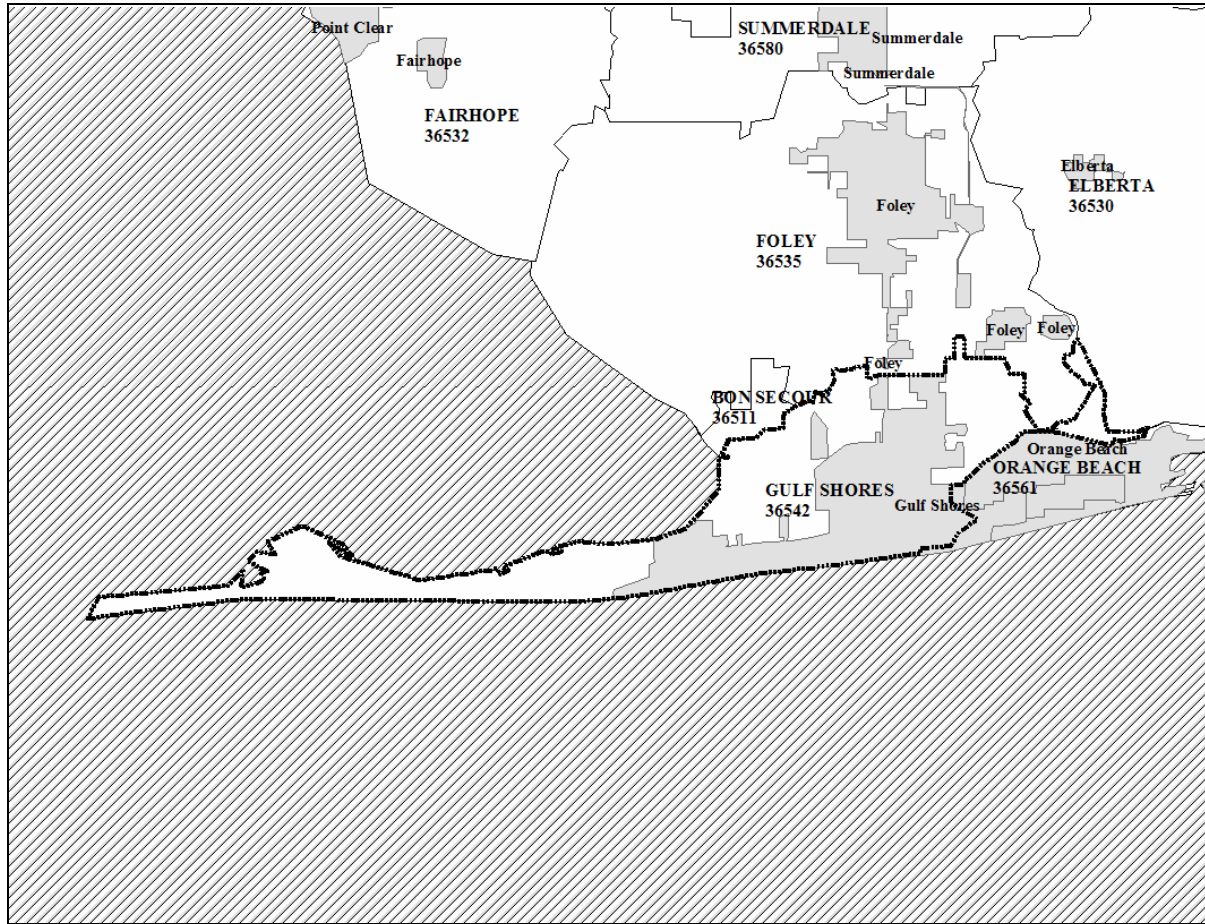


Figure D.5. Gulf Shores, Alabama Zip code Boundary and Census Designated Place Boundaries (U.S. Census Bureau, 2002).

Gulf Shores is also located in Baldwin County at the lower end of Mobile Bay just south of Foley and west of Orange Beach. The zip code boundary is slightly larger than the CDP boundary, but as seen in Figure D.5 the CDP for Gulf Shores extends slightly into the zip code boundary for Orange Beach.

Gulf Shores is homeport to four vessels, all of which have charter/head boat permits for both coastal pelagics and reef fish. There are three vessels holding charter permits and owners living within the zip code area also and a total of eight vessels permit holders altogether in the zip code area. There is one federally permitted dealer with a business located in the zip code boundary area for Gulf Shores (Table D.7).

Table D.7. Federal Permit Type by Homeport and Zip code in Gulf Shores, Alabama (NMFS 2002).

Type of Permit	Homeport	Zip code
Shrimp	0	0
Commercial King Mackerel	0	1
Commercial Spanish Mackerel	0	1
Reef Fish	0	1
Red Snapper License Class 1	0	0
Red Snapper License Class 2	0	1
Commercial Spiny Lobster	0	0
Charter/Head boat for Coastal Pelagics	4	7
Charter/Head boat for Reef Fish	4	7
Swordfish	0	0
Shark	0	0
Rock Shrimp	0	0
Federal Dealers		1

The predominant gear type is rod & reel with 8 vessels reporting having such gear on board which supports the emphasis on the charter sector in this area (Table D.8). There are several vessels which report both reef fish bandit gear and 3 which report handline/trolling gear.

Table D.8. Gear Type by Homeport and Zip code in Gulf Shores, Alabama (NMFS 2002)

Gear Type	Homeport	Zip code
Shrimp Gear	0	0
Fish Trap Gear	0	0
Gill Net Gear	0	0
Reef Fish Bandit	0	2
Handline/Troll	2	3
Rod & Reel	4	8
Surface Longline	0	0
Bottom Longline	0	0
Lobster Trap	0	0
Diver	1	1
Other	0	0

The majority of employment within Gulf Shores that is related to fishing is within the marina sector as shown in Table D.9. There is employment related to the retail fish and seafood markets and some boat building. However, overall fishing employment is relatively small compared to other employment in the zip code area.

Table D.9. Total Other Employment and Employment in Fishing Related Industry for Gulf Shores (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	Number Employed
Total Other Employment		3326
Fishing	114100	0
Seafood Canning	311711	0
Seafood Processing	311712	0
Boat Building	336612	3
Fish and Seafood	422460	0
Fish and Seafood Markets	445220	6
Marinas	713930	10
Total Fishing Employment		19

Vulnerability Index

The Services sector was the primary growth component for Baldwin County. Gulf Shores showed growth in the Services sector from 11.8% in 1980 to 18.0% in 2000. The county had a negative industrial mix due to decreases primarily in the manufacturing sector and the county had a positive competitive share. Gulf Shore's poverty rate was 9.8% for 2000 compared to 10.0% for Baldwin County. The average wage was higher than the county average in 2000. The sum of the index score for Gulf Shores is a positive three.

National growth component	1
Industrial mix	-1
Competitive share	1
Poverty component	1
Average wage/salary component	1
 Total	 3

1.3 Orange Beach, Alabama (36561)

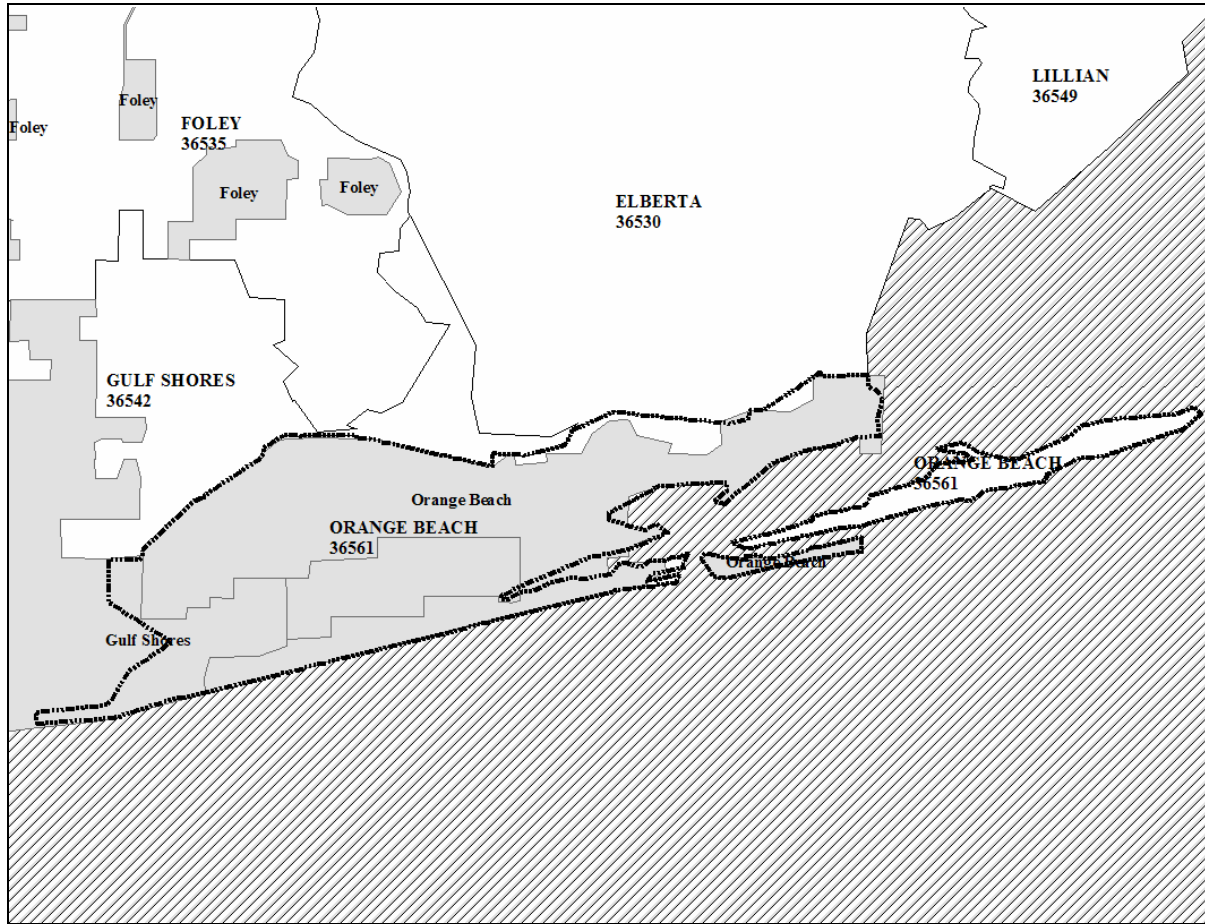


Figure D.6. Orange Beach, Alabama Zip code Boundary and Census Designated Place Boundaries (U.S. Census Bureau, 2002).

Orange Beach is located on the southeast coastal corner of Baldwin County. The CDP boundary for Orange Beach is practically coterminous with the zip code boundary, except for the small island to the east. As mentioned earlier, the Gulf Shores CDP does extend into the zip code area for Orange Beach and should be noted when examining zip code data.

Orange Beach was noted as an important port within the state for charter operations according to Sutton et al (1999). Table D.10 is further evidence of the importance of that sector as 100 vessels with reef fish charter permits and 98 with coastal pelagic charter permits call Orange Beach their home port out of 104 total. There are 67 vessels for which the permit holders reside within the zip code area.

Table D.10. Federal Permit Type by Homeport and Zip code in Orange Beach, Alabama (NMFS 2002).

Type of Permit	Homeport	Zip code
Shrimp	0	0
Commercial King Mackerel	1	1
Commercial Spanish Mackerel	0	0
Reef Fish	9	7
Red Snapper License Class 1	0	0
Red Snapper License Class 2	6	4
Commercial Spiny Lobster	0	0
Charter/Head boat for Coastal Pelagics	98	63
Charter/Head boat for Reef Fish	100	65
Swordfish	1	0
Shark	1	0
Rock Shrimp	0	0
Federal Dealers		0

When looking at gear used, again rod & reel predominate for the area. Although, 19 vessels who call Orange Beach homeport also use hand/trolling gear and another 11 who reside in within the zip code boundary are divers (Table D.11).

Table D.11. Gear Type by Homeport and Zip code in Orange Beach, Alabama (NMFS 2002).

Gear Type	Homeport	Zip code
Shrimp Gear	6	3
Fish Trap Gear	0	0
Gill Net Gear	1	1
Reef Fish Bandit	9	6
Handline/Troll	19	9
Rod & Reel	97	60
Surface Longline	2	1
Bottom Longline	2	1
Lobster Trap	0	0
Diver	1	11
Other	1	0

The employment figures within the zip code boundary also support the permit and gear data indicating that most employment in the fishing sector is in the marinas where possibly many charter boats are docked (Table D. 12). There are 3 employees listed under fish and seafood.

Table D.12. Total Other Employment and Employment in Fishing Related Industry for Orange Beach, Alabama (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	Number Employed
Total Other Employment		2867
Fishing	114100	0
Seafood Canning	311711	0
Seafood Processing	311712	0
Boat Building	336612	0
Fish and Seafood	422460	3
Fish and Seafood Markets	445220	0
Marinas	713930	50
Total Fishing Employment		53

Vulnerability Index

The Services sector was the primary growth component for Baldwin County. Orange Beach showed decline in the Services sector from 26.8% in 1990 to 13.9% in 2000. The county had a negative industrial mix due to decreases primarily in the manufacturing sector and the county had a positive competitive share. Orange Beach poverty rate was 10.6% for 2000 compared to 10.0% for Baldwin County. The average wage was slightly higher than the county average in 2000. The sum of the index score for Orange Beach is a negative one.

National growth component	-1
Industrial mix	-1
Competitive share	1
Poverty component	-1
Average wage/salary component	1
 Total	 -1

1.4 Bayou La Batre (36509)

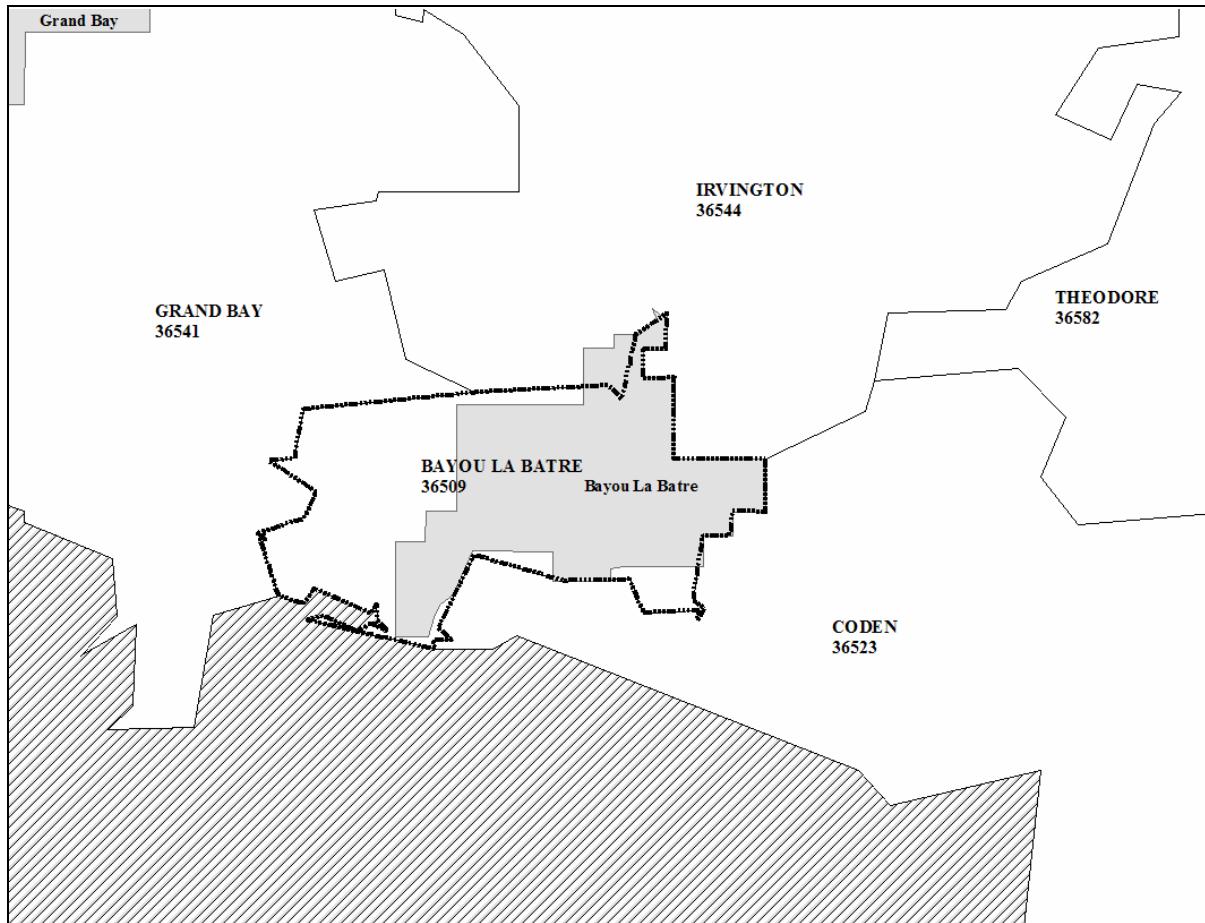


Figure D.7. Bayou La Batre, Alabama Zip code Boundary and Census Designated Place Boundaries (U.S. Census Bureau, 2002).

Bayou La Batre is located on the southern coast of Mobile County. It is west of the mouth of Mobile Bay between Coden and Grand Bay. The Bayou La Batre CDP boundary takes up slightly more than half the area within its zip code boundary. Therefore, zip code and CDP data may be very similar (Figure D.7).

The Bayou is a major homeport to the gulf shrimp industry and has been listed within the top ten ports in terms of value of landings (NMFS 2001). Because the shrimp permitting system has not been fully implemented Table D.13 does not reveal the full scope of the shrimping industry within the community. There are only over 39 federally permitted vessels which call Bayou La Batre home port and at least that many have shrimp permits. Most of those vessels also hold rock shrimp permits. In addition to the vessels, there are four federally permitted dealers located within the zip code boundary for Bayou La Batre.

Table D.13. Federal Permit Type by Homeport and Zip code in Bayou La Batre (NMFS 2002)

Type of Permit	Homeport	Zip code
Shrimp	39	39
Commercial King Mackerel	1	0
Commercial Spanish Mackerel	1	0
Reef Fish	1	0
Red Snapper License Class 1	1	0
Red Snapper License Class 2	0	0
Commercial Spiny Lobster	6	2
Charter/Head boat for Coastal Pelagics	0	0
Charter/Head boat for Reef Fish	0	0
Swordfish	0	0
Shark	0	1
Rock Shrimp	24	20
Federal Dealers		4

Gear type as listed in Table D.14 shows a preponderance of shrimping gear as expected. Some vessels report using a variety of other gear, including gill net, reef fish bandit, handline/toll, rod & reel, lobster trap and other.

Table D.14. Gear Type by Homeport and Zip code in Bayou La Batre, Alabama (NMFS 2002)

Gear Type	Homeport	Zip code
Shrimp Gear	24	21
Fish Trap Gear	0	0
Gill Net Gear	1	0
Reef Fish Bandit	1	0
Handline/Troll	2	0
Rod & Reel	2	1
Surface Longline	0	0
Bottom Longline	0	1
Lobster Trap	1	0
Diver	1	0
Other	1	0

Table D.15. Total Other Employment and Employment in Fishing Related Industry for Bayou La Batre, Alabama (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	Number Employed
Total Other Employment		1340
Fishing	114100	12
Seafood Canning	311711	0
Seafood Processing	311712	350
Boat Building	336612	110
Fish and Seafood	422460	211
Fish and Seafood Markets	445220	0
Marinas	713930	50
Total Fishing Employment		988

Employment figures from the Census Bureau presented in Table D.15 indicate a strong presence of fishing related employment. Over 42% of all employment for the Bayou is fishing related and over 500 people are reported to be employed in either seafood processing or fish and seafood. Another 110 are employed in boat building which is an important industry in Bayou La Batre.

Vulnerability Index

The Services sector was the primary growth component for Mobile County. Bayou La Batre showed a decrease in the Services sector from 11.1% in 1980 to 7.7% in 2000. The county had a positive industrial mix with most increases due to the construction sector and the county had a negative competitive share. Bayou La Batre poverty rate was 27.5% for 2000 compared to 18.1% for Mobile County. The average wage was lower than the county average in 2000. The sum of the index score for Bayou La Batre is a negative three.

National growth component	-1
Industrial mix	1
Competitive share	-1
Poverty component	-1
Average wage/salary component	-1
Total	-3

1.5 Dauphin Island (36528)

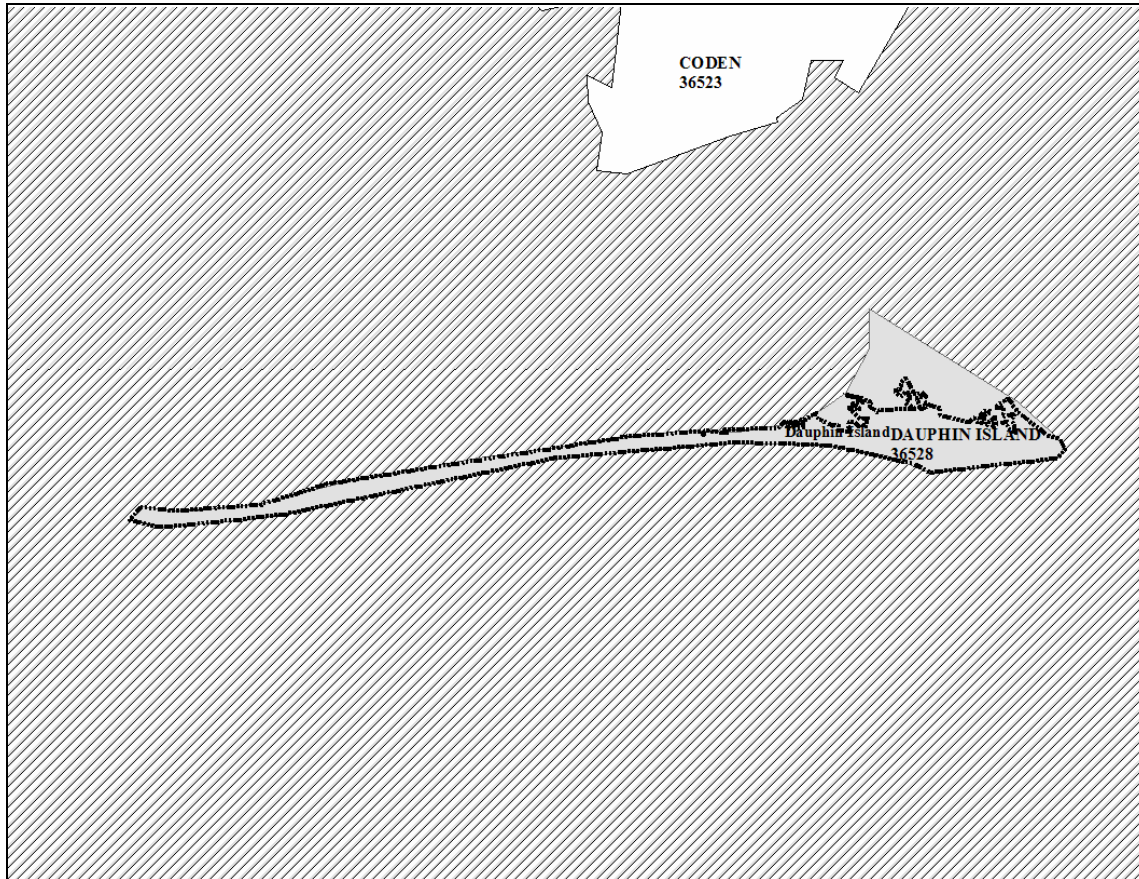


Figure D.8. Dauphin Island, Alabama Zip code Boundary and Census Designated Place Boundaries (U.S. Census Bureau, 2002).

Dauphin Island is just west of the mouth of Mobile Bay and part of Mobile County. The Dauphin Island CDP is coterminous with the zip code boundary as both encompass the entire island.

Table D.16 Federal Permit Type by Homeport and Zip code in Dauphin Island, Alabama (NMFS 2002)

Type of Permit	Homeport	Zip code
Shrimp	1	1
Commercial King Mackerel	2	1
Commercial Spanish Mackerel	3	2
Reef Fish	8	5
Red Snapper License Class 1	2	1
Red Snapper License Class 2	6	4
Commercial Spiny Lobster	0	0
Charter/Head boat for Coastal Pelagics	25	14
Charter/Head boat for Reef Fish	27	16
Swordfish	0	0
Shark	0	0
Rock Shrimp	1	0
Federal Dealers		1

The predominant permits held by the 31 vessels home ported at Dauphin Island and owners residing there are for both coastal pelagic and reef fish charter (Table D.16). Gear type is also dominated by rod & reel in Table D.17.

Table D.17. Gear Type by Homeport and Zip code in Dauphin Island, Alabama (NMFS 2002)

Gear Type	Homeport	Zip code
Shrimp Gear	1	1
Fish Trap Gear	0	0
Gill Net Gear	1	0
Reef Fish Bandit	8	4
Handline/Troll	0	3
Rod & Reel	28	16
Surface Longline	0	0
Bottom Longline	0	0
Lobster Trap	0	0
Diver	7	4
Other	0	0

Employment figures for fishing related sectors show 6 people employed in fishing for Dauphin Island with a total of 244 in other employment.

Table D.18. Total Other Employment and Employment in Fishing Related Industry for Dauphin Island, Alabama (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	Number Employed
Total Other Employment		244
Fishing	114100	6
Seafood Canning	311711	0
Seafood Processing	311712	0
Boat Building	336612	0
Fish and Seafood	422460	0
Fish and Seafood Markets	445220	0
Marinas	713930	0
Total Fishing Employment		6

Vulnerability Index

The Services sector was the primary growth component for Mobile County. Dauphin Island showed growth in the Services sector from 28.8% in 1990 to 36.8% in 2000. The county had a positive industrial mix with most increases due to the construction sector and the county had a negative competitive share. Dauphin Island poverty rate was 8.6% for 2000 compared to 18.1% for Mobile County. The average wage was higher than the county average in 2000. The sum of the index score for Dauphin Island is a positive three.

National growth component	1
Industrial mix	1
Competitive share	-1
Poverty component	1
Average wage/salary component	1
Total	3

2 FLORIDA FISHING COMMUNITIES

Florida fishermen hold more permits than other Gulf States as its extensive coastline is home to many fishing communities both recreational and commercial. In their study of Florida Fishing communities, Jacob et al (2001) listed over 45 fishing communities identified by their advisory panel. Out of those 45 they were only able to find five fishing-dependent communities based upon their criteria and formula used; all were on Florida's Gulf coast: Steinhatchee, Apalachicola, Panama City, Ochopee/Everglades City and Panacea.

Table D.19 Number of Federal Permit Type by Homeport State for Florida (NMFS 2002)

Type of Permit	Number
Shrimp	345
Commercial King Mackerel	1533
Commercial Spanish Mackerel	1388
Reef Fish	679
Red Snapper License Class 1	61
Red Snapper License Class 2	459
Commercial Spiny Lobster	505
Charter/Head boat for Coastal Pelagics	1630
Charter/Head boat for Reef Fish	1199
Swordfish	136
Shark	373
Rock Shrimp	165
Federal Dealers	131

Of all permits held in Florida, the coastal pelagic and reef fish charter, king mackerel and Spanish mackerel are the most abundant. Although Table D.19 includes all permits held in Florida and reflects permits held by Atlantic coast fishermen, the majority of those permits are held by fishermen in Gulf coast communities. For the purposes of this description, all fishing communities in the Keys are being considered a part of the Gulf coast although many Keys fishermen fish in both the Gulf and Atlantic.

Table D.20. Gear Type by Homeport in Florida (NMFS 2002).

Gear Type	Homeport
Shrimp Gear	346
Fish Trap Gear	131
Gill Net Gear	254
Reef Fish Bandit	1328
Handline/Troll	1935
Rod & Reel	3222
Surface Longline	248
Bottom Longline	484
Lobster Trap	364
Diver	961
Other	416

The most prolific gear reported is rod & reel with handline/troll next. Reef fish bandit gear is third most prolific with dive gear reported next most often (Table D.20).

In terms of value and pounds landed the shrimp fishery ranks at the top, but Florida's trap fisheries follow close behind (Table D.21). The hand line fisheries are next in value and land more in weight than the individual trap fisheries for stone crab and lobster. Longline gear for reef fish follows the hand line fishery in terms of pounds and value.

Table D.21. Pounds Landed and Dollar Value by Gear Type for Florida (NMFS 2002).

Gear Type	Pounds landed	Dollar Value
Haul Seines, Beach	815,122	550,237
Purse Seines, Other	4,091,529	1,415,430
Lampara & Ring Nets, Other	754,625	613,385
Butterfly Nets	96,613	130,542
Beam Trawls, Shrimp	799,499	1,288,414
Trawls, Unspecified	229,067	604,282
Otter Trawl Bottom, Scallop	60,340	181,020
Otter Trawl Bottom, Shrimp	15,871,533	39,551,024
Pots And Traps, Crab, Blue	5,328,760	5,031,476
Pots And Traps, Crab, Other	6,235,765	24,936,630
Pots And Traps, Fish	1,521,883	2,390,191
Pots And Traps, Spiny Lobster	4,598,400	22,447,196
Pots And Traps, Other	446,044	483,631
Pots, Unclassified	3	14
Entangling Nets (Gill) Unspc	2,273	2,645
Gill Nets, Other	880	761
Gill Nets, Drift, Other	19,455	22,123
Gill Nets, Drift, Runaround	1,352,494	1,128,625
Trammel Nets	4,939	8,943
Lines Hand, Other	9,284,280	16,558,847
Rod and Reel	22,157	38,589
Reel, Electric or Hydraulic	171,099	305,213
Lines Long Set With Hooks	327,291	673,039
Lines Long, Reef Fish	6,419,294	12,722,453
Lines Long, Shark	1,012,274	980,004
Dip Nets, Common	18,050	60,035
Cast Nets	6,989,004	5,024,008
Spears	122,688	249,175
Dredge Other	24,781	27,982
Tongs and Grabs, Oyster	508,396	773,402
Tongs Patent, Oyster	1,945,206	2,996,329
Hooks, Sponge	637,265	744,868
Diving Outfits, Other	482,130	2,045,794
By Hand, Other	505,274	4,564,908
Unspecified Gear	51,903	504,767
Combined Gears	5,999,003	9,865,694

In terms of private recreational fishing, of the nearly 3 million anglers participating in marine recreational fishing from West Florida most were out-of-state fishermen with 57% of trips made by fishermen residing outside of Florida. There were 12.2 million saltwater fishing trips taken in West Florida in 1998 and 50% of those were in private/rental boats. Of the others,

44% were shore trips and 6% were on party or charter vessels. There was only 9% of fishing trips in federal waters in 1998, the rest were either in state waters with the majority made in inland waters. Participation in marine recreational fishing in Florida has increased from less than 2.5 million anglers in 1995 to over 4 million in 2001 according to Figure D.

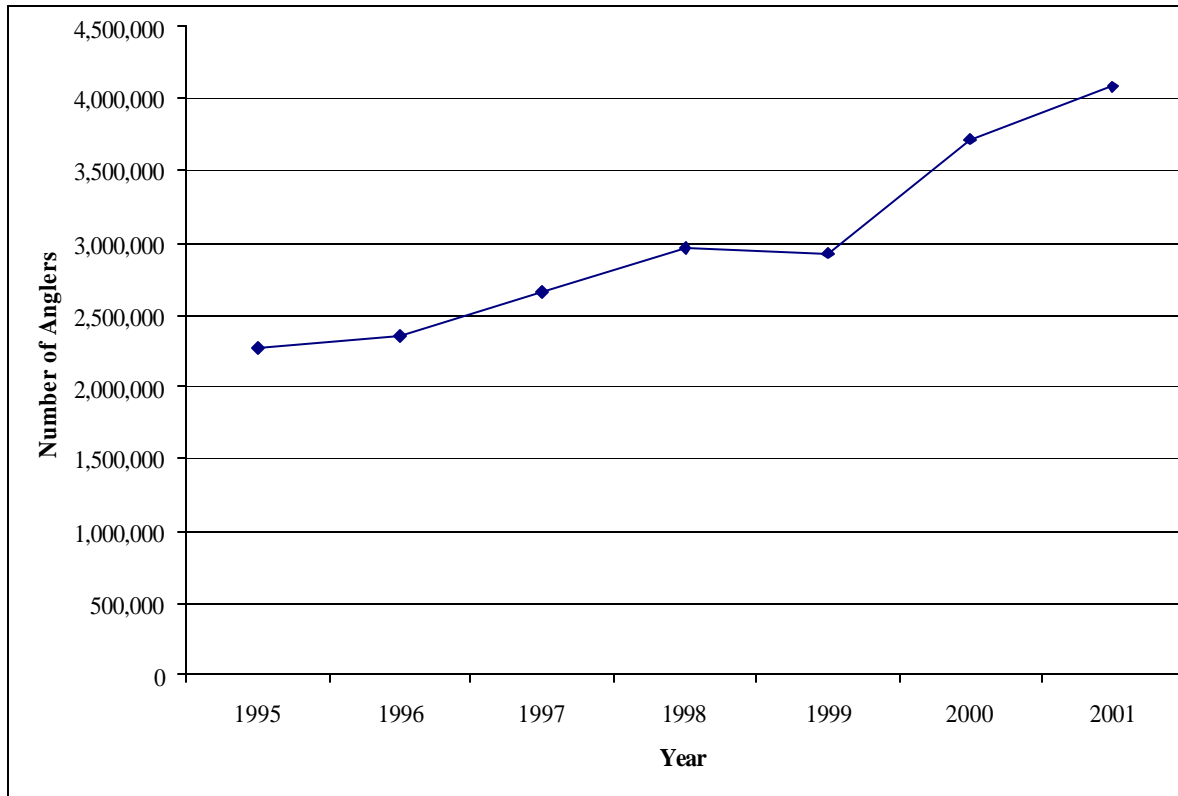


Figure D.9 Marine Recreational Anglers in Florida 1995-2001 (NMFS 2002).

The trend in saltwater fishing trips has seen an increase recently with an estimated over 12 million trips in 1995 and a drop of almost a million in 1999. Recently, however, there has been a steady increase to over 16 million trips in 2001 according to Figure D.9.

As seen in Figure D.10, the type of fishing trip has not changed much since 1998 except that fewer charter and party boat trips were taken in 2001.

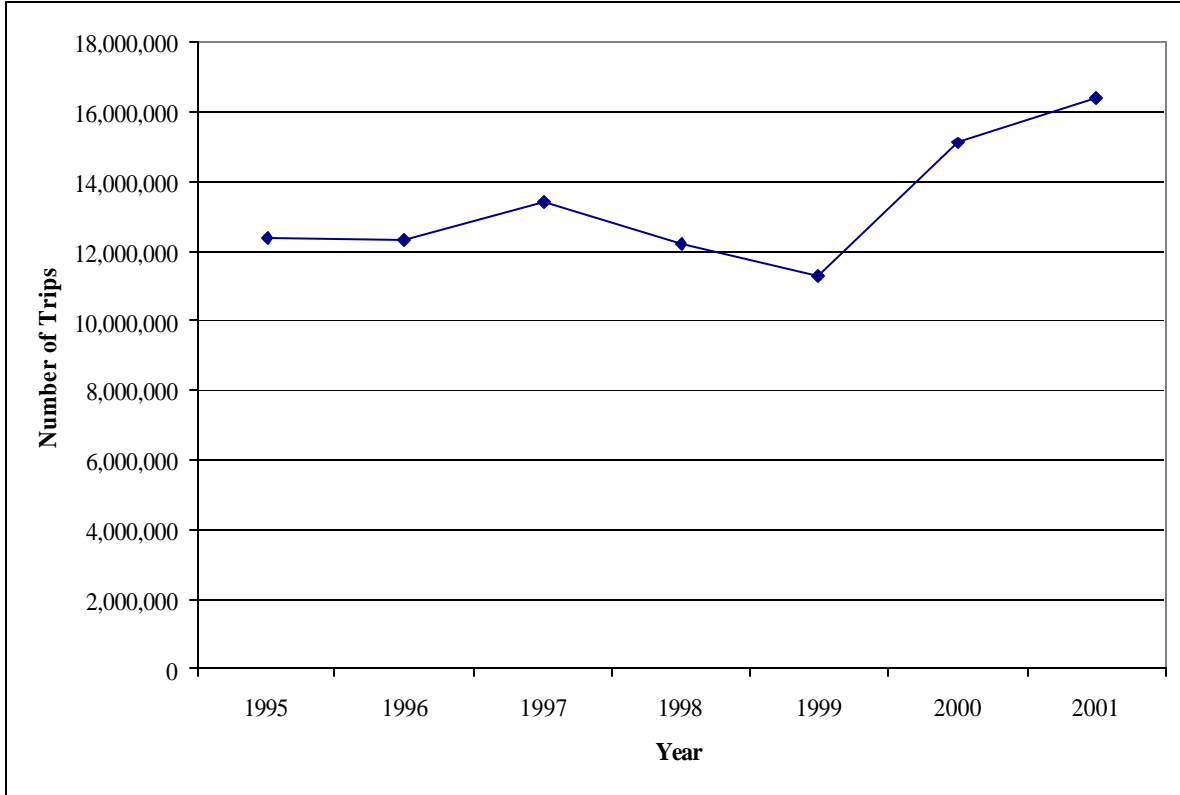


Figure D.10 Marine Recreational Fishing Trips in Florida 1995-2001 (NMFS 2002).

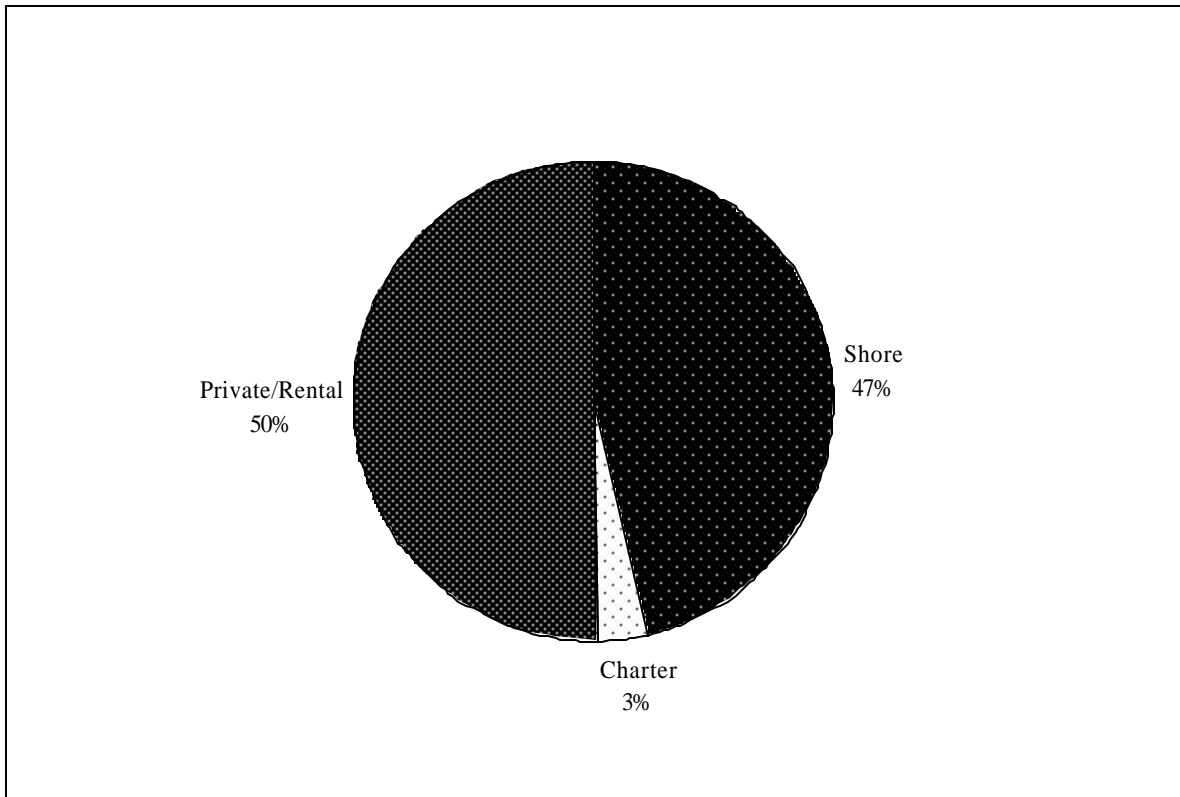


Figure D.11 Marine Recreational Fishing Trips by Mode in Florida 2001 (NMFS 2002).

2.1 Pensacola, Florida (32501, 32503, 32504, 32506, 32507, 32508, 32514)

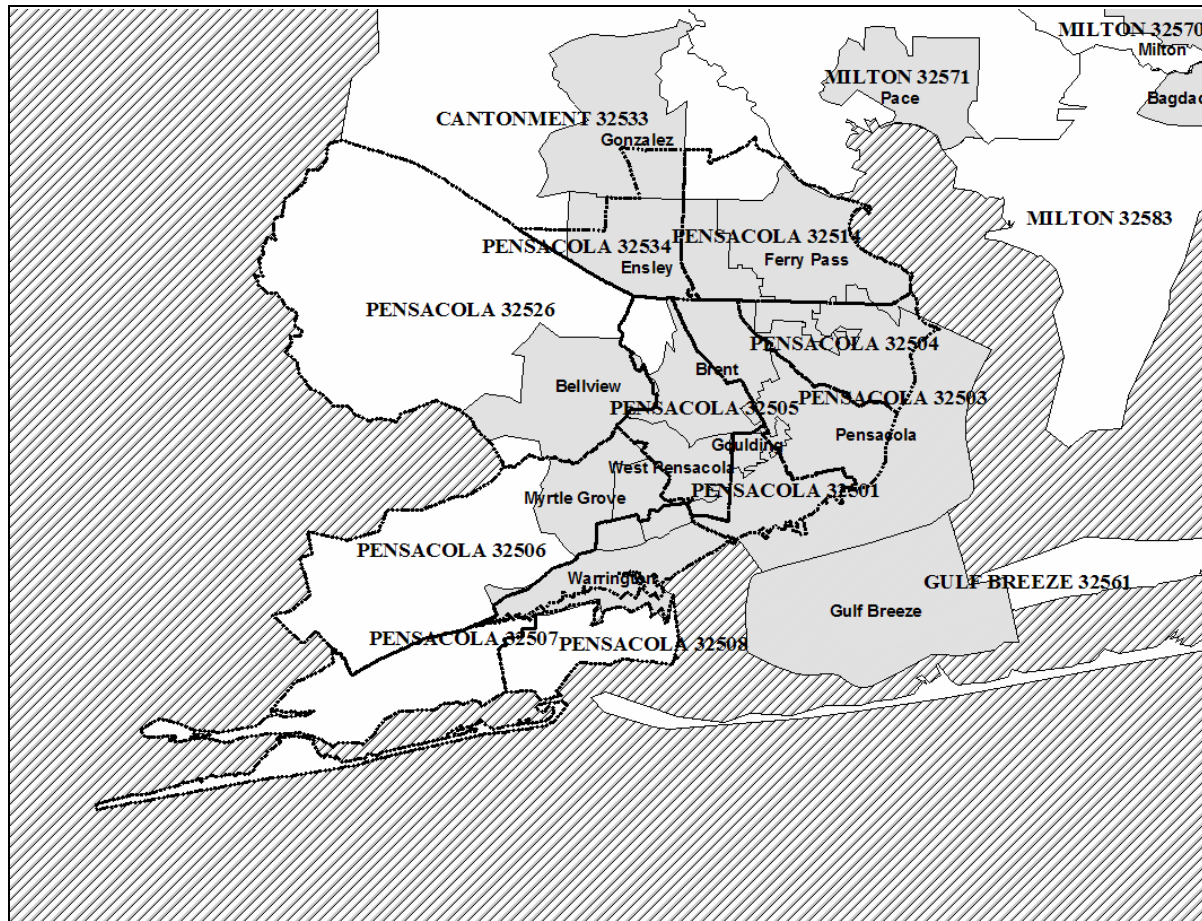


Figure D.12. Pensacola, Florida Zip code and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

Pensacola is at the western most end of Florida's Panhandle in Escambia County. The Pensacola CDP is much smaller than the several zip code boundaries which are named for the city. In fact, several other CDPs are included within the zip code boundaries named for Pensacola (Figure D.12). Permits and NAIC data using zip codes were calculated by summing all permits and employment figures in all zip codes included above.

Table D.25 indicates there are 22 vessels with a king mackerel permits and 32 with reef fish permits which call Pensacola their homeport of the 86 total vessels. About half that number for each permit reported residence within the zip code areas with at total of 16. There are 19 vessels with red snapper class 2 permits and 9 with class 1 who report Pensacola as homeport and again about half that many reporting residence in Pensacola. As for charter permits 61 vessels indicate they hold either a coastal pelagic permits and or reef fish permit. And there are 13 vessels that hold shrimp permits at this time. There are three federally permitted dealers within the Pensacola zip code boundaries.

Table D.22. Federal Permit Type by Homeport and Zip code in Pensacola, Florida (NMFS 2002).

Type of Permit	Homeport	Zip code
Shrimp	13	13
Commercial King Mackerel	22	10
Commercial Spanish Mackerel	9	8
Reef Fish	32	17
Red Snapper License Class 1	9	4
Red Snapper License Class 2	19	9
Commercial Spiny Lobster	1	1
Charter/Head boat for Coastal Pelagics	61	15
Charter/Head boat for Reef Fish	61	17
Swordfish	2	5
Shark	4	8
Rock Shrimp	2	2
Federal Dealers		3

The predominant gear type is rod & reel with 77 vessels reporting that gear type and 32 reporting bandit gear for those home ported in Pensacola. Twenty-seven vessels reported using handline/trolling gear. In all cases less than half as many from the Pensacola zip code boundaries reported the same. This suggests that Pensacola is homeport to more than twice as many vessels as are locally owned.

Table D.23. Gear Type by Homeport and Zip code in Pensacola, Florida (NMFS 2002).

Gear Type	Homeport	Zip code
Shrimp Gear	5	2
Fish Trap Gear	1	0
Gill Net Gear	0	0
Reef Fish Bandit	32	11
Handline/Troll	27	7
Rod & Reel	77	12
Surface Longline	5	2
Bottom Longline	8	2
Lobster Trap	0	0
Diver	23	2
Other	0	0

Table D.24. Total Other Employment and Employment in Fishing Related Industry for Pensacola, Florida (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	Number Employed
Total Other Employment		99266
Fishing	114100	12
Seafood Canning	311711	0
Seafood Processing	311712	0
Boat Building	336612	18
Fish and Seafood	422460	31
Fish and Seafood Markets	445220	6
Marinas	713930	91
Total Fishing Employment		158

A total of 158 persons were estimated to be employed in fishing related businesses according to Table D.24. Most of that employment was in the marinas sector. The fish and seafood sector had 31 and boat building employed 18. Twelve individuals were reported as being employed in fishing.

Vulnerability Index Score

The Services sector was the primary growth component for Escambia County. Pensacola showed growth in the Services sector from 25.9% in 1980 to 52.2% in 2000. The county had a positive industrial mix with most increases due to the construction sector and the county had a positive competitive share. Pensacola poverty rate was 15.9% for 2000 compared to 14.2% for Escambia County. The average wage was lower than the county average in 2000. The sum of the index score for Pensacola is positive one.

National growth component	1
Industrial mix	1
Competitive share	1
Poverty component	-1
Average wage/salary component	-1
Total	1

2.2 Gulf Breeze, Florida (32561, 32566)

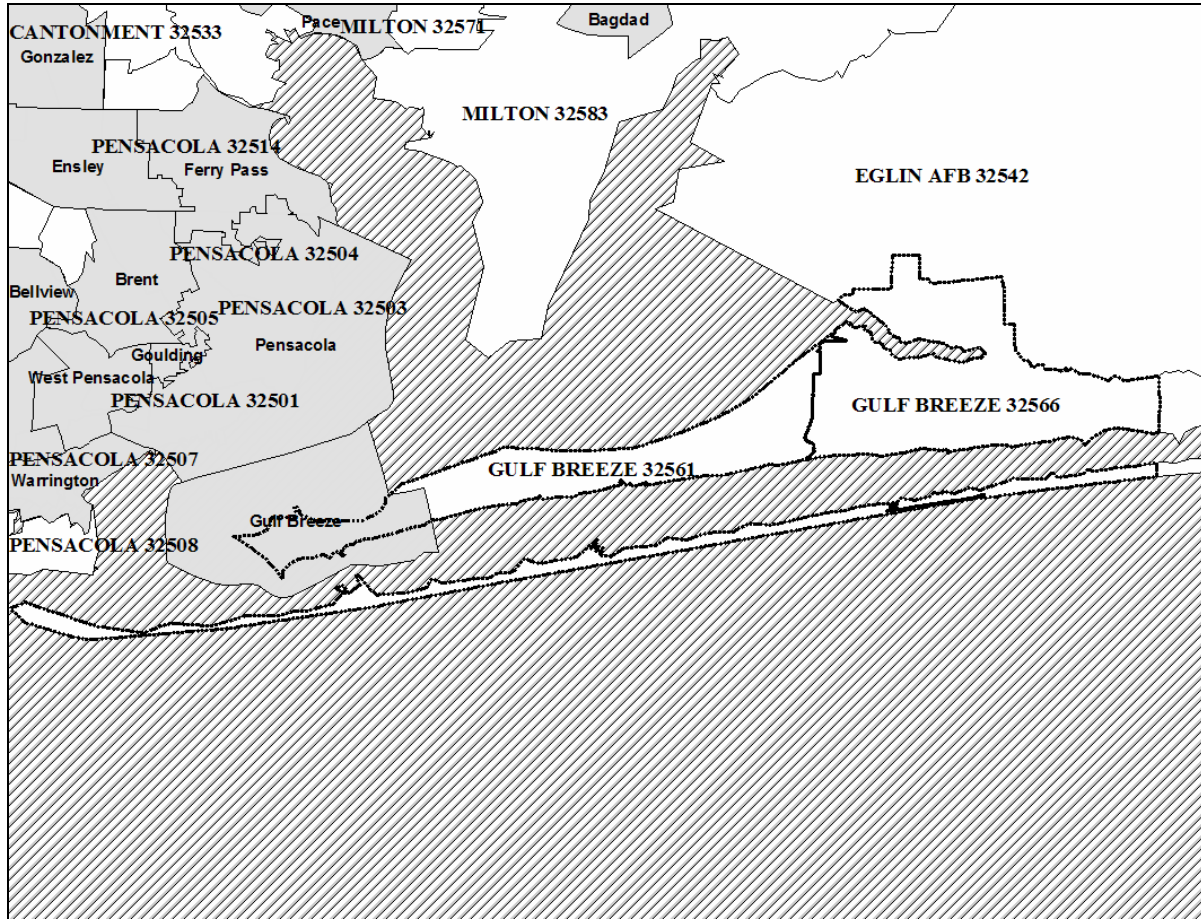


Figure D.13. Gulf Breeze, Florida Zip code and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

The Gulf Breeze zip code area encompasses a peninsula and a set of barrier islands just east of Pensacola at the lower end of Pensacola Bay in Escambia County. The Gulf Breeze CDP is at the western end of the peninsula that sits below the Bay (Figure D.13).

Table D.25. Federal Permit Type by Homeport and Zip code in Gulf Breeze, Florida (NMFS 2002).

Type of Permit	Homeport	Zip code
Shrimp	0	0
Commercial King Mackerel	5	6
Commercial Spanish Mackerel	2	5
Reef Fish	7	13
Red Snapper License Class 1	1	1
Red Snapper License Class 2	5	9
Commercial Spiny Lobster	0	0
Charter/Head boat for Coastal Pelagics	8	7
Charter/Head boat for Reef Fish	8	4
Swordfish	0	4
Shark	1	4
Rock Shrimp	0	0
Federal Dealers		0

There are relatively few permits held by vessels reporting Gulf Breeze as homeport with a total of 8. All 85 are holding charter permits for coastal pelagic and reef fish (Table D.25). With 13 vessels reporting residence in Gulf Breeze, it seems more vessel owners live within this area. Gulf Breeze was listed as an important charter boat port in Holland et al. (1999).

Table D.26. Gear Type by Homeport and Zip code in Gulf Breeze, Florida (NMFS 2002).

Gear Type	Homeport	Zip code
Shrimp Gear	0	0
Fish Trap Gear	0	0
Gill Net Gear	0	0
Reef Fish Bandit	4	5
Handline/Troll	3	5
Rod & Reel	5	6
Surface Longline	0	0
Bottom Longline	0	0
Lobster Trap	0	0
Diver	2	3
Other	0	0

The gear type listed most often for the Gulf Breeze zip code and homeport area is rod & reel followed by reef fish bandit and handline/trolling gear (Table D.26). The fishing related employment is split between marinas with 9 and fish and seafood markets employing 7, but all fishing employment pales compared to other employment in Table D.27.

Table D.27. Total Other Employment and Employment in Fishing Related Industry for Gulf Breeze, Florida (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	Number Employed
Total Other Employment		8628
Fishing	114100	0
Seafood Canning	311711	0
Seafood Processing	311712	0
Boat Building	336612	0
Fish and Seafood	422460	0
Fish and Seafood Markets	445220	7
Marinas	713930	9
Total Fishing Employment		16

Vulnerability Index Score

The Services sector was the primary growth component for Escambia County. Gulf Breeze showed growth in the Services sector from 21.2% in 1980 to 55.7% in 2000. The county had a positive industrial mix with most increases due to the construction sector and the county had a positive competitive share. Gulf Breeze poverty rate was 4.1% for 2000 compared to 14.2% for Escambia County. The average wage was higher than the county average in 2000. The sum of the index score for Gulf Breeze is a positive five.

National growth component	1
Industrial mix	1
Competitive share	1
Poverty component	1
Average wage/salary component	1
Total	5

2.3 Ft. Walton Beach, Florida (32547, 32548)

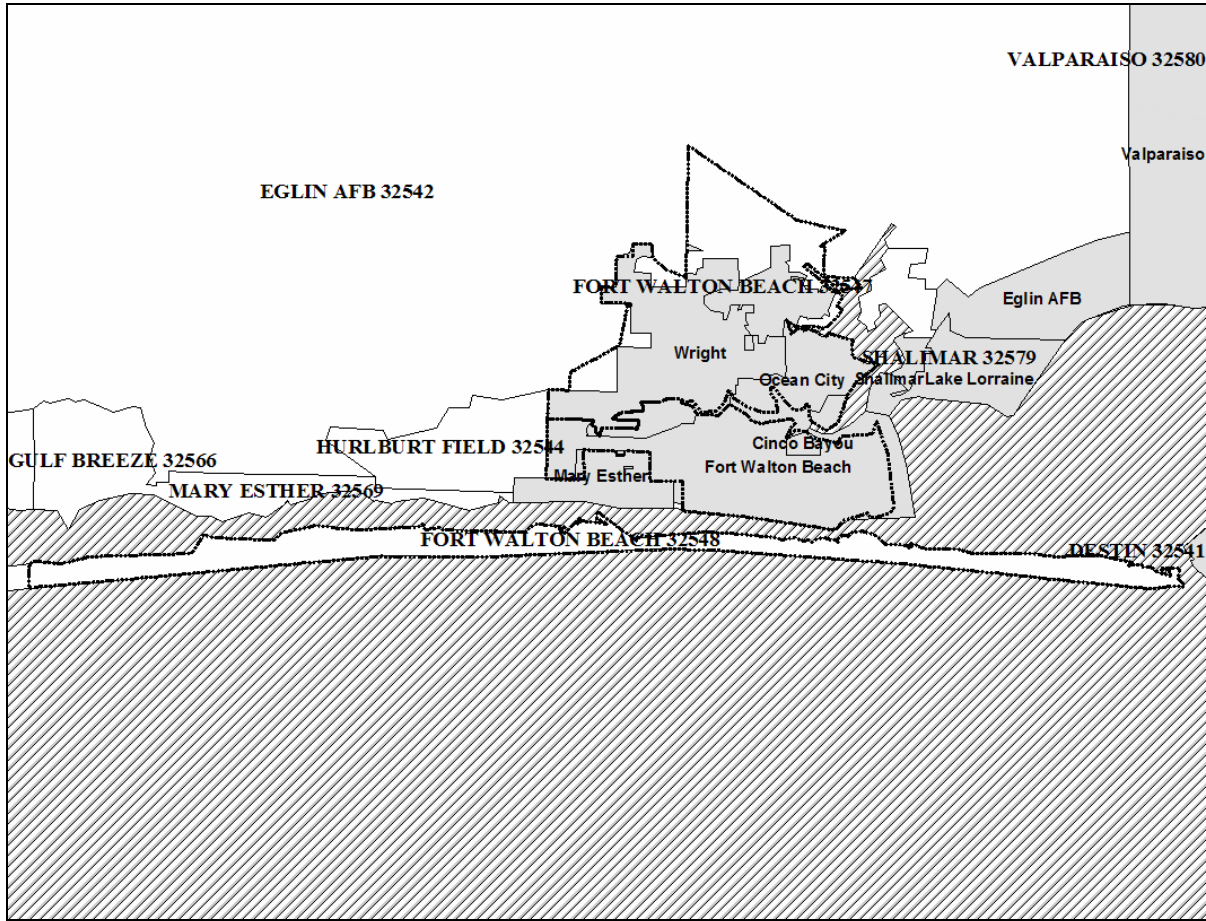


Figure D.14. Ft. Walton Beach, Florida Zip code and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

Fort Walton Beach is located in Okaloosa County on its coastal waters just west of Destin and Niceville. While the zip code boundary also includes a barrier island, the Fort Walton CDP boundary is principally located on the shore side (Figure D.14).

Table D.28 Federal Permit Type by Homeport and Zip code in Ft. Walton Beach, Florida (NMFS 2002).

Type of Permit	Homeport	Zip code
Shrimp	1	0
Commercial King Mackerel	5	10
Commercial Spanish Mackerel	4	7
Reef Fish	7	10
Red Snapper License Class 1	1	2
Red Snapper License Class 2	6	7
Commercial Spiny Lobster	0	0
Charter/Head boat for Coastal Pelagics	4	7
Charter/Head boat for Reef Fish	4	6
Swordfish	0	2
Shark	1	2
Rock Shrimp	0	0
Federal Dealers		0

The primary permit types for the Ft. Walton Beach zip code area are king mackerel and reef fish with 10 vessels reporting such in Table D.28. But, Spanish mackerel and red snapper class 2 permits follow with 7. More vessels owners report residing within the Ft. Walton Beach than do those reporting it as a homeport, which suggests most homeport elsewhere. There are 12 vessels which report Ft. Walton as home port, while 13 report it as their residence within the zip code area. The predominant gear type reported is rod & reel, but again more vessels report Ft. Walton Beach as residence than homeport.

Table D.29. Gear Type by Homeport and Zip code in Ft. Walton Beach, Florida (NMFS 2002).

Gear Type	Homeport	Zip code
Shrimp Gear	0	0
Fish Trap Gear	0	0
Gill Net Gear	0	0
Reef Fish Bandit	4	8
Handline/Troll	4	8
Rod & Reel	5	13
Surface Longline	1	2
Bottom Longline	2	3
Lobster Trap	0	0
Diver	1	0
Other	0	0

Fishing related employment in Ft. Walton Beach is estimated to be 6 people in both fishing and marinas, with 3 employed in boat building (Table D.30). A total of 15 people employed in fishing related businesses is small compared to other employment estimated to be 29,733.

Table D.30. Total Other Employment and Employment in Fishing Related Industry for Ft. Walton Beach, Florida (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	2.3.1.1.1 Number Employed
Total Other Employment		29733
Fishing	114100	6
Seafood Canning	311711	0
Seafood Processing	311712	0
Boat Building	336612	3
Fish and Seafood	422460	0
Fish and Seafood Markets	445220	0
Marinas	713930	6
Total Fishing Employment		15

Vulnerability Index Score

The Services sector was the primary growth component for Okaloosa County. Ft. Walton Beach showed growth in the Services sector from 26.0% in 1980 to 39.5% in 2000. The county had a positive industrial mix with most increases due to the construction sector and the county had a positive competitive share. Ft. Walton Beach poverty rate was 9.7% for 2000 compared to 8.5% for Okaloosa County. The average wage was the same as the county average in 2000. The sum of the index score for Ft. Walton Beach is a positive one.

National growth component	1
Industrial mix	1
Competitive share	1
Poverty component	-1
Average wage/salary component	-1
Total	1

2.4 Destin, Florida (32541)

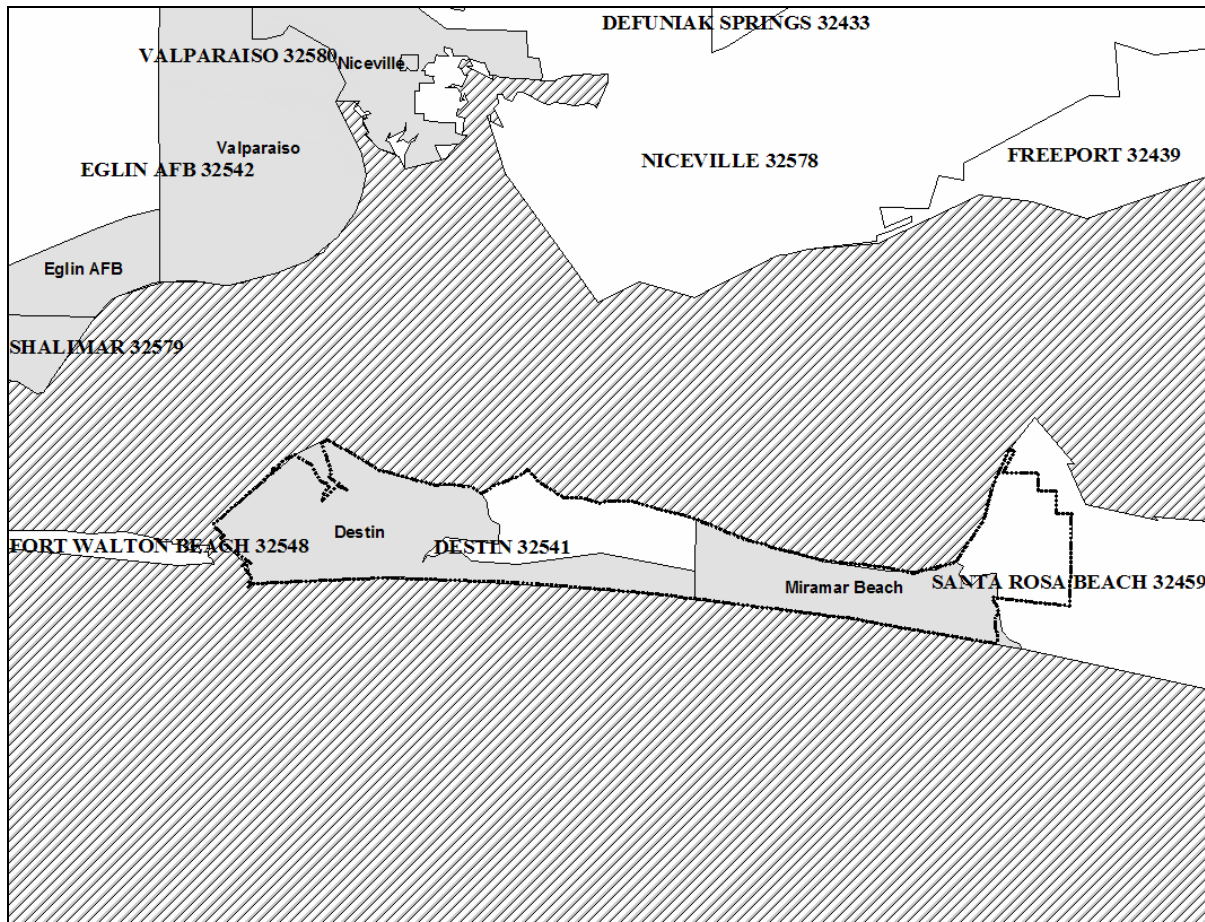


Figure D.15. Destin, Florida Zip code and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

Destin sits on the western end of Moreno Point at the bottom of Choctawhatchee Bay in Okaloosa County. The zip code boundary encompasses not only the Destin CDP, but also that for Miramar Beach.

Table D.31. Federal Permit Type by Homeport and Zip code in Destin, Florida (NMFS 2002).

Type of Permit	Homeport	Zip code
Shrimp	0	0
Commercial King Mackerel	47	20
Commercial Spanish Mackerel	28	17
Reef Fish	40	19
Red Snapper License Class 1	8	4
Red Snapper License Class 2	26	13
Commercial Spiny Lobster	0	1
Charter/Head boat for Coastal Pelagics	136	32
Charter/Head boat for Reef Fish	136	32
Swordfish	9	11
Shark	15	12
Rock Shrimp	0	0
Federal Dealers		3

Destin is homeport to 161 vessels, 47 of which report holding king mackerel permits (Table D.31). Some 136 of those vessels indicate they hold charter permits for both coastal pelagics and reef fish. Forty report that they are holding reef fish and 28 Spanish mackerel permits. In most every case, about half the number of vessels reporting Destin as homeport for a particular permit also report residing within the Destin zip code boundary. This suggests that half the vessels are from other areas and call Destin their homeport.

Table D.32. Gear Type by Homeport and Zip code in Destin, Florida (NMFS 2002).

Gear Type	Homeport	Zip code
Shrimp Gear	1	0
Fish Trap Gear	2	0
Gill Net Gear	1	0
Reef Fish Bandit	32	11
Handline/Troll	34	15
Rod & Reel	49	20
Surface Longline	9	7
Bottom Longline	12	6
Lobster Trap	0	0
Diver	5	4
Other	3	2

The most often reported gear type in Table D.32 was rod & reel with handline/trolling gear and reef fish bandit following close behind. Twelve vessels home ported in Destin reported using bottom longline gear.

The majority of fishing related employment is in the fish and seafood sector with 23 employed and another ten employed in fish and seafood markets. Nine individuals reported their employment as fishing and another 6 in marinas for a total of 48 employed in fishing related businesses overall.

Table D.33. Total Other Employment and Employment in Fishing Related Industry for Destin, Florida (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	Number Employed
Total Other Employment		13380
Fishing	114100	9
Seafood Canning	311711	0
Seafood Processing	311712	0
Boat Building	336612	0
Fish and Seafood	422460	23
Fish and Seafood Markets	445220	10
Marinas	713930	6
Total Fishing Employment		48

Vulnerability Index Score

The Services sector was the primary growth component for Okaloosa County. Destin showed growth in the Services sector from 21.4% in 1980 to 23.1% in 2000. The county had a positive industrial mix with most increases due to the construction sector and the county had a positive competitive share. Destin poverty rate was 5.4% for 2000 compared to 8.5% for Okaloosa County. The average wage was the same as the county average in 2000. The sum of the index score for Destin is 3.

National growth component	1
Industrial mix	1
Competitive share	1
Poverty component	1
Average wage/salary component	1
Total	5

2.5 Panama City, Florida (32401, 32403, 32404, 32405, 32408, 32409)

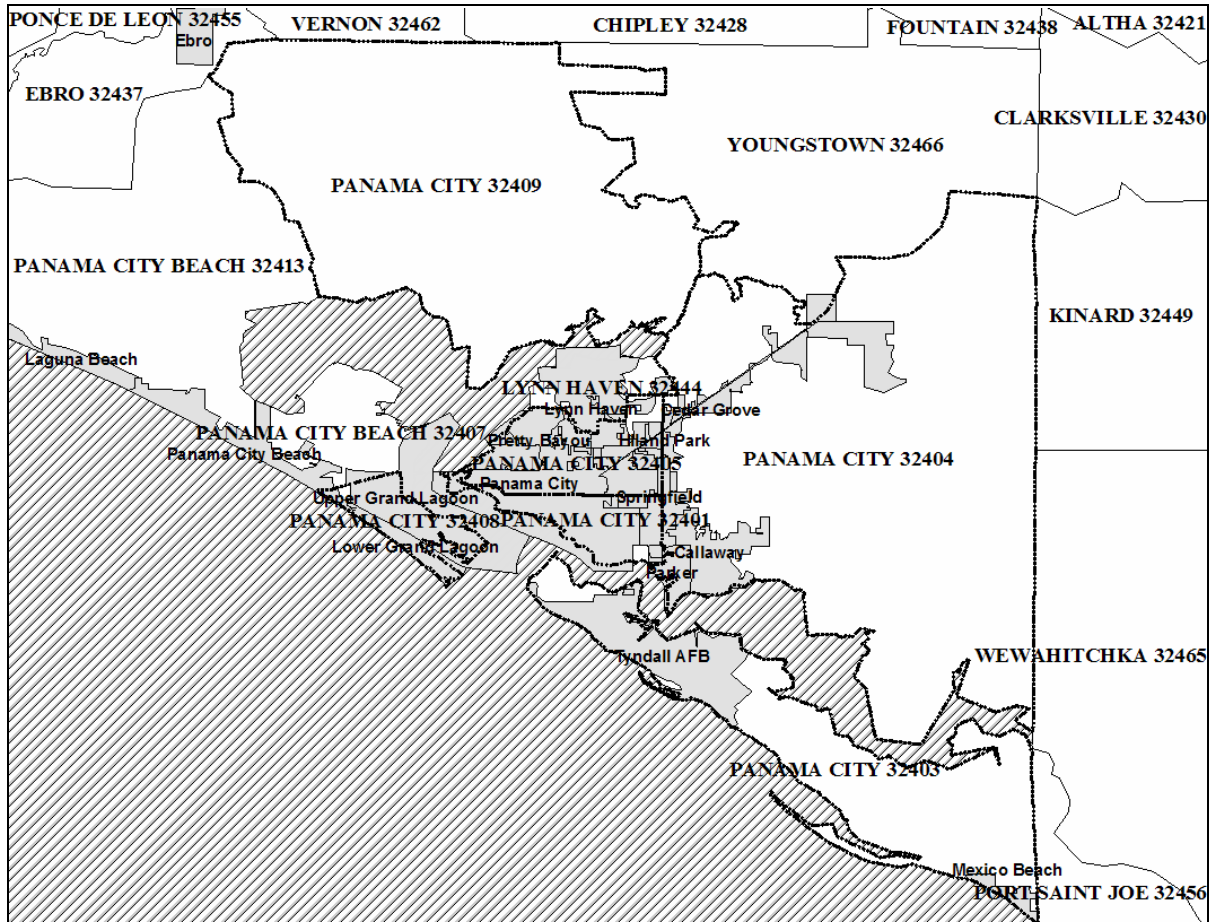


Figure D.16. Panama City, Florida Zip code and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

Panama City sits in the center of St. Andrew Bay on the coast of Bay County. It is home of the Tyndall Air Force Base.

Table D.34. Federal Permit Type by Homeport and Zip code in Panama City, Florida (NMFS 2002).

Type of Permit	Homeport	Zip code
Shrimp	19	23
Commercial King Mackerel	83	73
Commercial Spanish Mackerel	60	54
Reef Fish	87	69
Red Snapper License Class 1	26	16
Red Snapper License Class 2	40	34
Commercial Spiny Lobster	2	2
Charter/Head boat for Coastal Pelagics	101	66
Charter/Head boat for Reef Fish	105	63
Swordfish	28	24
Shark	20	39
Rock Shrimp	0	1
Federal Dealers		3

The Panama City zip code boundary is quite large and includes the CDPs for not only Panama City, but also Cedar Grove, Shell Bayou, Upper and Lower Grand Lagoon, Springfield, Callaway, Parker and Tyndall Air Force Base (Figure D.16). It does not include Lynn Haven.

Panama City is homeport to over 178 federally permitted vessels with some of those vessels (83) holding king mackerel permits (Table D.34). Reef fish permits vessels with 87 permits held and Spanish mackerel with 60. There are approximately 105 vessels which hold either or both charter permits for coastal pelagics or reef fish. There are 40 vessels home ported in Panama City that hold red snapper class 2 permits and twenty-two holding class 1 permits for one of the largest concentrations of these types of permits. In most cases, there are approximately ten fewer vessels that reside in Panama City zip code boundaries than there are home porting there for each permit type.

Table D.35. Gear Type by Homeport and Zip code in Panama City, Florida (NMFS 2002).

Gear Type	Homeport	Zip code
Shrimp Gear	4	6
Fish Trap Gear	3	5
Gill Net Gear	4	2
Reef Fish Bandit	68	58
Handline/Troll	75	64
Rod & Reel	91	78
Surface Longline	10	7
Bottom Longline	32	27
Lobster Trap	0	0
Diver	7	6
Other	9	5

The major gear type is rod & reel with handline/trolling gear following second and reef fish bandit gear third. Bottom longline gear and surface longline gear are also used by vessels home ported and residing in Panama City. The mix of gear and permit types suggests both a commercial and recreational fishing base within Panama City.

Table D.36. Total Other Employment and Employment in Fishing Related Industry for Panama City, Florida (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	Number Employed
Total Other Employment		44130
Fishing	114100	12
Seafood Canning	311711	0
Seafood Processing	311712	70
Boat Building	336612	76
Fish and Seafood	422460	53
Fish and Seafood Markets	445220	12
Marinas	713930	123
Total Fishing Employment		346

Employment in fishing related businesses is predominately in the marina sector with 123 employed as shown in Table D.36. Other important sectors include boat building, seafood processing and fish and seafood, each employing 50 or more. Both fishing and fish and seafood markets report having 12 employed in those businesses.

Vulnerability Index Score

The Services sector was the primary growth component for Bay County. Panama City showed growth in the Services sector from 21.0% in 1980 to 47.1% in 2000. The county had a positive industrial mix with most increases due to the construction sector and the county had a positive competitive share. Panama City poverty rate was 16.1% for 2000 compared to 12.7% for Bay County. The average wage was the lower than the county average in 2000. The sum of the index score for Panama City is positive 1.

National growth component	1
Industrial mix	1
Competitive share	1
Poverty component	-1
Average wage/salary component	-1
Total	1

2.6 Panama City Beach, Florida (32413, 32417)

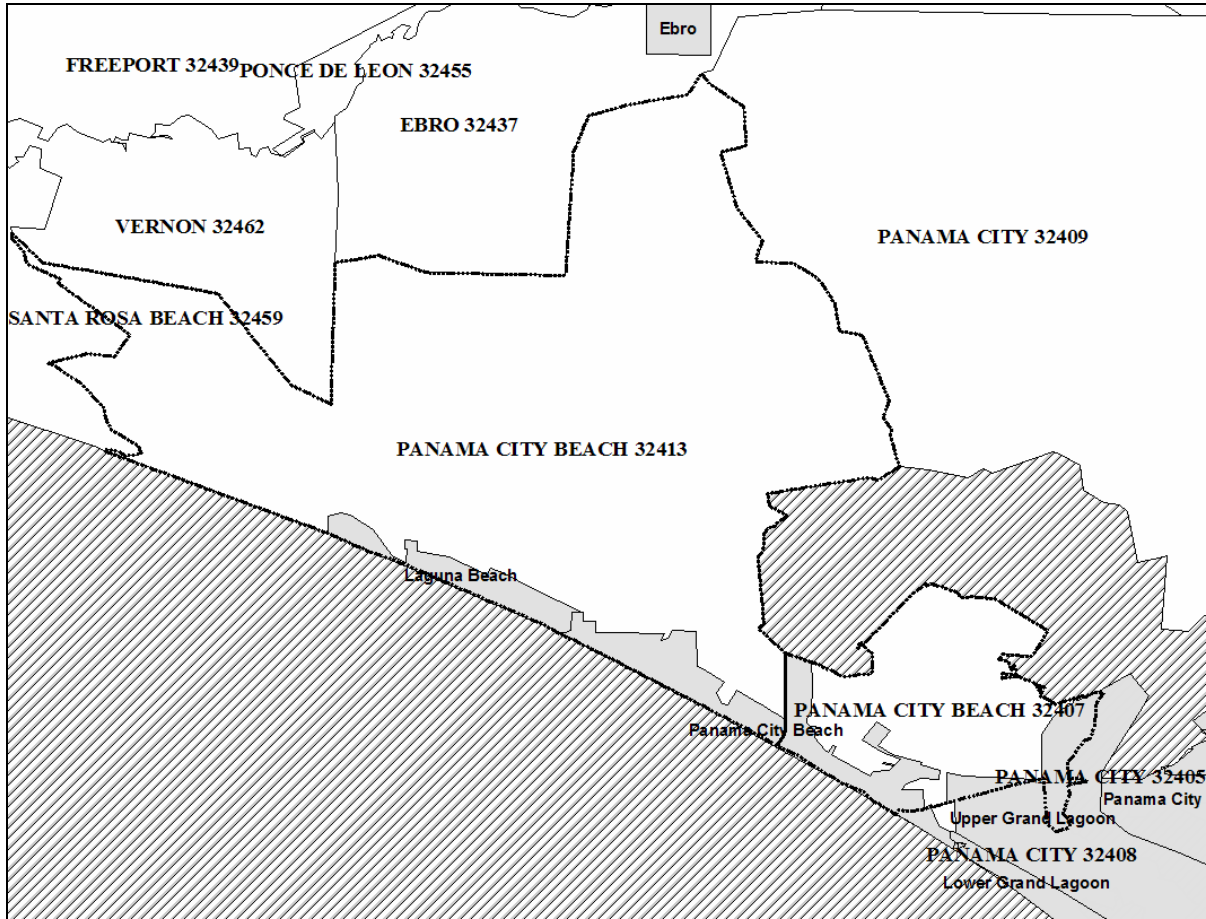


Figure D.17. Panama City Beach, Florida Zip code and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

Panama City Beach is west of Panama City to the south and west of West Bay in Bay County. The Panama City Beach zip code area includes the Laguna Beach CDP and extends north and west of the CDP area.

Table D.37. Federal Permit Type by Homeport and Zip code in Panama City Beach, Florida (NMFS 2002).

Type of Permit	Homeport	Zip code
Shrimp	0	0
Commercial King Mackerel	8	6
Commercial Spanish Mackerel	9	3
Reef Fish	9	6
Red Snapper License Class 1	0	1
Red Snapper License Class 2	7	4
Commercial Spiny Lobster	0	0
Charter/Head boat for Coastal Pelagics	36	6
Charter/Head boat for Reef Fish	36	6
Swordfish	1	3
Shark	1	2
Rock Shrimp	0	0
Federal Dealers		0

There are 43 vessels home ported in Panama City Beach which is about twice as many as indicate they reside within in the zip code area. The majority of those permits are charter permits, then Spanish mackerel, king mackerel or reef fish (Table D.37). There are 36 vessels that home port in Panama City Beach and hold charter permits for reef fish and coastal pelagic charter permits. There are no federal dealers with permits in the Panama City Beach zip code area.

Table D.38. Gear Type by Homeport and Zip code in Panama City Beach, Florida (NMFS 2002).

Gear Type	Homeport	Zip code
Shrimp Gear	0	0
Fish Trap Gear	2	0
Gill Net Gear	0	0
Reef Fish Bandit	8	4
Handline/Troll	12	5
Rod & Reel	12	5
Surface Longline	0	1
Bottom Longline	1	2
Lobster Trap	0	0
Diver	2	0
Other	2	0

The predominate gear types in Table D.38 are handline/trolling gear and rod & reel which correspond to the permit types discussed earlier and suggest an emphasis upon the charter sector but also the commercial coastal pelagic fishery.

Table D.39 Total Other Employment and Employment in Fishing Related Industry for Panama City Beach, Florida (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	Number Employed
Total Other Employment		2653
Fishing	114100	0
Seafood Canning	311711	0
Seafood Processing	311712	0
Boat Building	336612	0
Fish and Seafood	422460	6
Fish and Seafood Markets	445220	0
Marinas	713930	0
Total Fishing Employment		6

There is relatively little employment in fishing related sectors according to the figures in Table D.39 with fish and seafood employing six individuals. Total other employment for the zip code area is 2653.

Vulnerability Index Score

The Services sector was the primary growth component for Bay County. Panama City Beach showed growth in the Services sector from 26.2% in 1980 to 22.0% in 2000. The county had a positive industrial mix with most increases due to the construction sector and the county had a positive competitive share. Panama City Beach poverty rate was 4.9% for 2000 compared to 12.7% for Bay County. The average wage was the higher than the county average in 2000. The sum of the index score for Panama City Beach is positive 3.

National growth component	-1
Industrial mix	1
Competitive share	1
Poverty component	1
Average wage/salary component	1
Total	3

2.7 Port St. Joseph, Florida (32456)

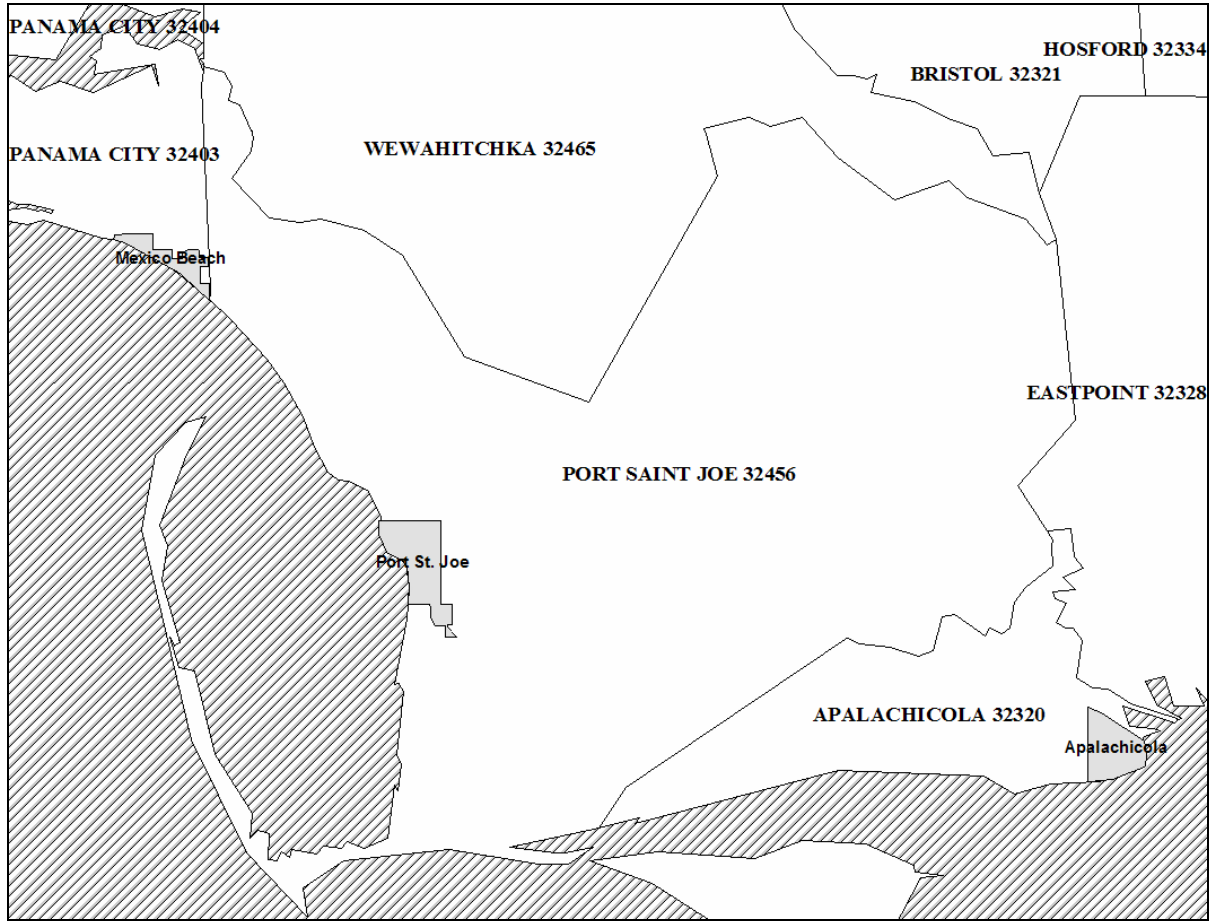


Figure D.18. Port St. Joseph, Florida Zip code and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

Port St. Joseph sits on the lower half of Gulf County on St. Joseph Bay protected by the St. Joseph peninsula. The zip code boundary encompasses almost half of Gulf County, but does not include any other CDPs.

Table D.40. Federal Permit Type by Homeport and Zip code in Port St. Joseph, Florida (NMFS 2002).

Type of Permit	Homeport	Zip code
Shrimp	0	0
Commercial King Mackerel	4	8
Commercial Spanish Mackerel	6	6
Reef Fish	3	4
Red Snapper License Class 1	0	0
Red Snapper License Class 2	3	2
Commercial Spiny Lobster	0	0
Charter/Head boat for Coastal Pelagics	6	4
Charter/Head boat for Reef Fish	5	4
Swordfish	0	0
Shark	0	0
Rock Shrimp	0	0
Federal Dealers		0

St. Joe is homeport to 13 vessels with 11 vessel owners residing within the zip code area (Table D.40). Most vessels have Spanish mackerel commercial permits. The same number have charter permits for coastal pelagics and 6 have reef fish charter permits.

Table D.41. Gear Type by Homeport and Zip code in Port St. Joseph, Florida (NMFS 2002).

Gear Type	Homeport	Zip code
Shrimp Gear	1	2
Fish Trap Gear	0	0
Gill Net Gear	1	2
Reef Fish Bandit	2	3
Handline/Troll	6	7
Rod & Reel	3	9
Surface Longline	0	0
Bottom Longline	0	0
Lobster Trap	0	0
Diver	0	0
Other	1	3

The gear type that is most often listed is rod & reel with handline/trolling gear second. Other vessels have listed shrimp gear, gill net gear and reef fish bandit gear as also being used in Table D.41.

Table D.42. Total Other Employment and Employment in Fishing Related Industry for Port St. Joseph, Florida (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	Number Employed
Total Other Employment		2056
Fishing	114100	0
Seafood Canning	311711	0
Seafood Processing	311712	7
Boat Building	336612	0
Fish and Seafood	422460	0
Fish and Seafood Markets	445220	0
Marinas	713930	6
Total Fishing Employment		13

Employment in fishing related sectors is almost evenly split between seafood processing and marinas with seven and six employees respectively. Other employment is listed as 2056 in Table D.42.

Vulnerability Index Score

The Government sector was the primary growth component for Gulf County. Because the government sector was not included in the census demographic data for industry the national growth component is 0. The county had a negative industrial mix with most decreases due to the manufacturing sector and the county had a negative competitive share. Port St. Joseph poverty rate was 12.4% for 2000 compared to 14.9% for Gulf County. The average wage was the same as the county average in 2000. The sum of the index score for Port St. Joseph is 0.

National growth component	0
Industrial mix	-1
Competitive share	-1
Poverty component	1
Average wage/salary component	1
Total	0

2.8 Apalachicola, Florida (32320)

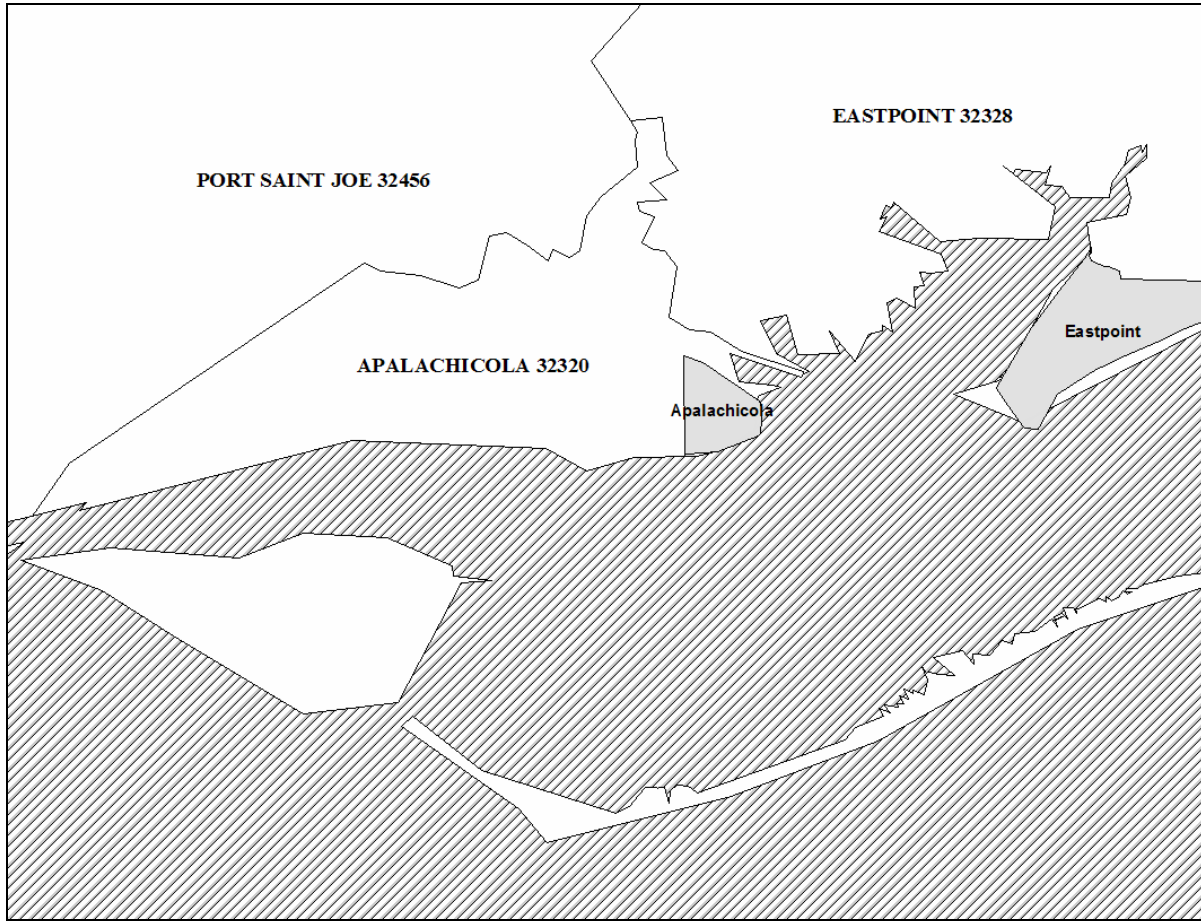


Figure D.19. Apalachicola, Florida Zip code and Census Designated Place B boundaries. (U.S. Census Bureau, 2002)

Apalachicola is located at the western part of Franklin County at the mouth of Apalachicola Bay on the western shore. The CDP sits at the eastern edge of the zip code boundary which extends further west bordering the Port St. Joseph zip code boundary.

Table D.43. Federal Permit Type by Homeport and Zip code in Apalachicola, Florida (NMFS 2002).

Type of Permit	Homeport	Zip code
Shrimp	14	9
Commercial King Mackerel	7	4
Commercial Spanish Mackerel	5	4
Reef Fish	17	7
Red Snapper License Class 1	1	0
Red Snapper License Class 2	13	6
Commercial Spiny Lobster	0	1
Charter/Head boat for Coastal Pelagics	35	4
Charter/Head boat for Reef Fish	37	3
Swordfish	0	1
Shark	5	5
Rock Shrimp	8	4
Federal Dealers		0

Apalachicola has 17 vessels with reef fish permits and 14 with shrimp permits that call this community homeport according to Table D.43 out of total 56 vessels. Ten vessels hold commercial king mackerel permits and 8 hold rock shrimp permits. Eight vessels hold Spanish mackerel permits. By far the most common permits held by vessels are charter permits for either coastal pelagics or reef fish. One vessel reports holding a red snapper class 1 and 13 have class 2 permits. There are 5 vessels that report holding shark permits.

Table D.44. Gear Type by Homeport and Zip code in Apalachicola, Florida (NMFS 2002).

Gear Type	Homeport	Zip code
Shrimp Gear	8	4
Fish Trap Gear	0	0
Gill Net Gear	1	0
Reef Fish Bandit	7	5
Handline/Troll	4	3
Rod & Reel	8	5
Surface Longline	0	0
Bottom Longline	2	1
Lobster Trap	0	0
Diver	1	1
Other	1	0

Eight vessels report using shrimp gear or rod & reel gear in Table D.44. Whether those 8 vessels with shrimp gear are the same with rod & reel gear is unknown. Seven vessels report having reef fish bandit gear. Vessels also indicate gill net gear bottom longline gear and diving gear.

Table D.45. Total Other Employment and Employment in Fishing Related Industry for Apalachicola, Florida (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	Number Employed
Total Other Employment		961
Fishing	114100	3
Seafood Canning	311711	0
Seafood Processing	311712	75
Boat Building	336612	0
Fish and Seafood	422460	126
Fish and Seafood Markets	445220	3
Marinas	713930	3
Total Fishing Employment		210

Employment in Apalachicola according to Table D.45 is significant for the fishing sector with 126 employed in fish and seafood and another 75 employed in seafood processing. A few others are reported employed in fishing, fish and seafood markets and marinas. Overall, approximately 18% of employment reported in zip code business patterns is in fishing related sectors.

Vulnerability Index Score

The Services sector was the primary growth component for Franklin County. Apalachicola showed growth in the Services sector from 11.5% in 1980 to 42.2% in 2000. The county had a negative industrial mix with most decreases due to the Agriculture, forestry and fishing sector and the county had a positive competitive share. Apalachicola poverty rate was 24.1% for 2000 compared to 15.0% for Franklin County. The average wage was lower than the county average in 2000. The sum of the index score for Apalachicola is negative 1.

National growth component	1
Industrial mix	-1
Competitive share	1
Poverty component	-1
Average wage/salary component	-1
Total	-1

2.9 Eastpoint, Florida (32328)

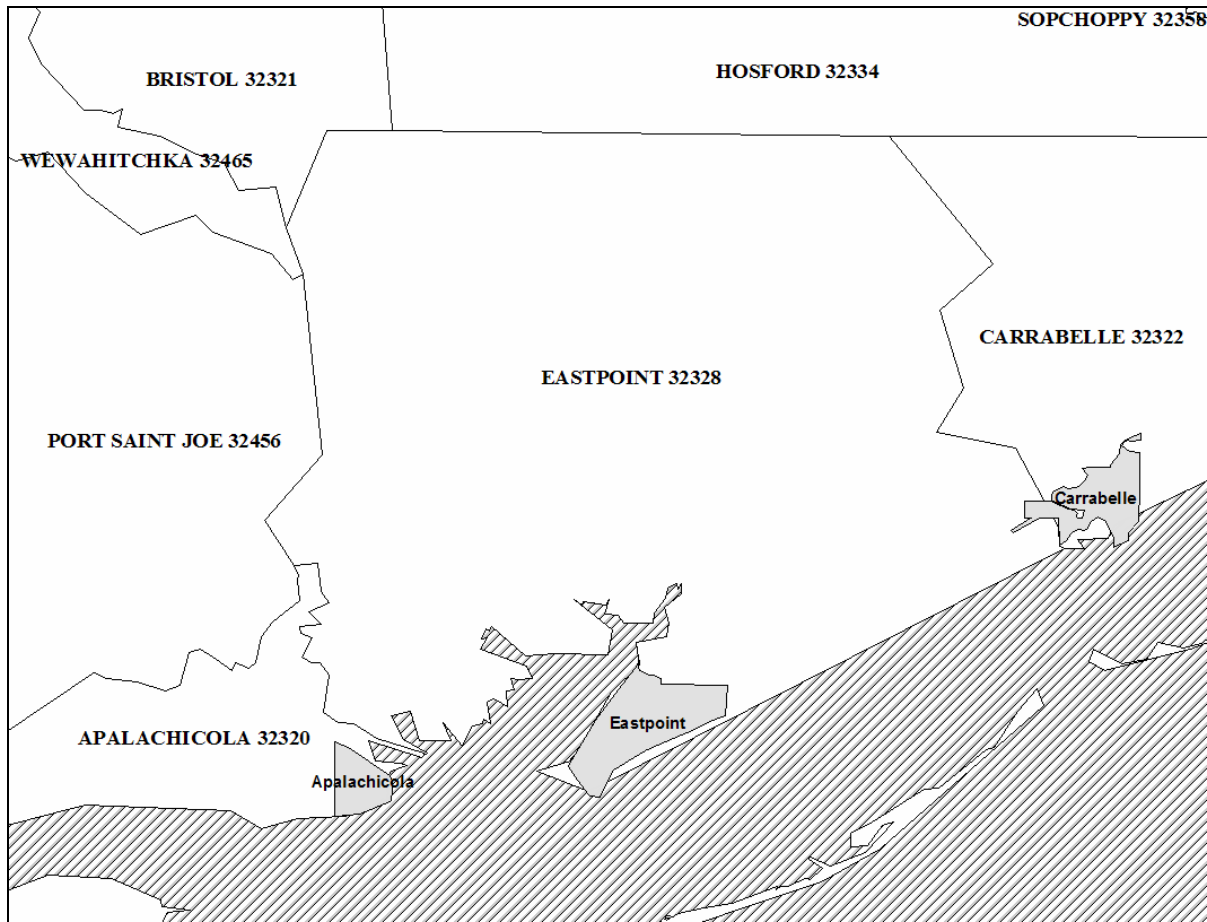


Figure D.20. Eastpoint, Florida Zip code and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

Eastpoint, Florida is also located in Franklin County on the eastern shore of Apalachicola Bay. The Eastpoint zip code boundary encompasses a large portion of the middle of Franklin County along with St. George Island. The Eastpoint CDP is a relatively small portion of that larger zip code boundary.

According to Table D.46 there are relatively few federally permitted vessels in Eastpoint with only 5 claiming it as a home port. There are four vessels with shrimp permits and only one vessel which holds a red snapper class 2 permit.

Eastpoint is home to many oyster harvesters which are regulated primarily by state regulations and would not appear in federal permit lists. Therefore under certain other criteria it may be considered a fishing community.

Table D.46. Federal Permit Type by Home port and Zip code in Eastpoint, Florida (NMFS 2002).

Type of Permit	Homeport	Zip code
Shrimp	4	4
Commercial King Mackerel	0	2
Commercial Spanish Mackerel	0	0
Reef Fish	1	1
Red Snapper License Class 1	0	0
Red Snapper License Class 2	1	1
Commercial Spiny Lobster	0	0
Charter/Head boat for Coastal Pelagics	4	0
Charter/Head boat for Reef Fish	4	1
Swordfish	0	0
Shark	0	0
Rock Shrimp	0	0
Federal Dealers		0

Table D.47. Gear Type by Homeport and Zip code in Eastpoint, Florida (NMFS 2002).

Gear Type	Homeport	Zip code
Shrimp Gear	1	1
Fish Trap Gear	0	0
Gill Net Gear	0	0
Reef Fish Bandit	1	1
Handline/Troll	1	1
Rod & Reel	1	2
Surface Longline	0	0
Bottom Longline	0	0
Lobster Trap	0	0
Diver	0	0
Other	0	0

As stated earlier with much of the fishing activity for Eastpoint being focused upon oyster fishing the gear used would not require federal permits and therefore in Table D.47 there are only a few types of gear being reported. However, Table D.48 shows that there is considerable employment for Eastpoint in the fishing sector of fish and seafood with approximately 17% of employment represented for the zip code area.

Table D.48. Total Other Employment and Employment in Fishing Related Industry for Eastpoint, Florida (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	Number Employed
Total Other Employment		603
Fishing	114100	0
Seafood Canning	311711	0
Seafood Processing	311712	0
Boat Building	336612	0
Fish and Seafood	422460	118
Fish and Seafood Markets	445220	0
Marinas	713930	0
Total Fishing Employment		118

Vulnerability Index Score

The Services sector was the primary growth component for Franklin County. East Point showed growth in the Services sector from 4.3% in 1980 to 26.6% in 2000. The county had a negative industrial mix with most decreases due to the Agriculture, forestry and fishing sector and the county had a positive competitive share. East Point poverty rate was 11.8% for 2000 compared to 15% for Franklin County. The average wage was higher than the county average in 2000. The sum of the index score for East Point is positive 3.

National growth component	1
Industrial mix	-1
Competitive share	1
Poverty component	1
Average wage/salary component	1
Total	3

2.10 Carrabelle, Florida (32322)

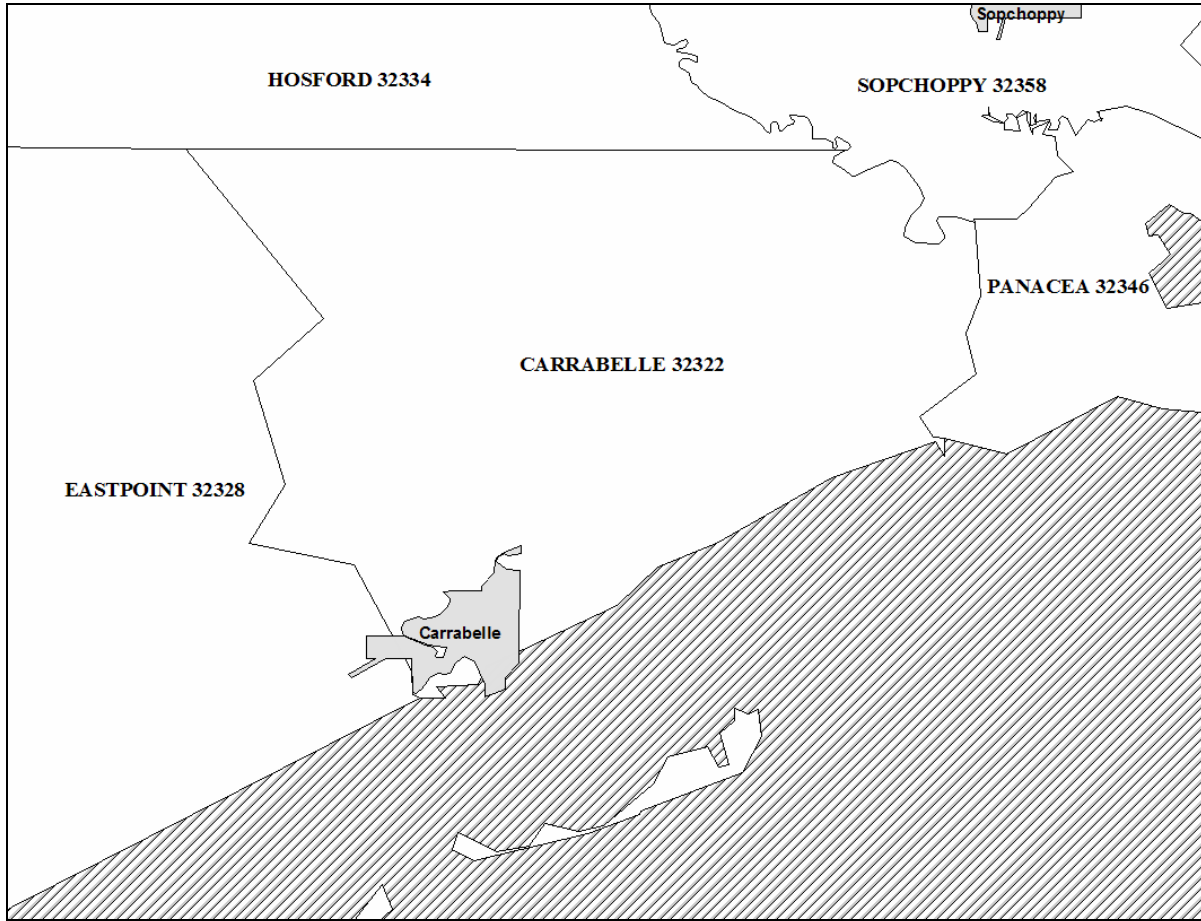


Figure D.21. Carrabelle, Florida Zip code and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

Carrabelle, Florida is located in the Eastern part of Franklin County. The zip code boundary is considerably larger than the CDP as shown in Figure D.21.

Table D.49. Federal Permit Type by Homeport and Zip code in Carrabelle, Florida (NMFS 2002).

Type of Permit	Homeport	Zip code
Shrimp	8	8
Commercial King Mackerel	6	4
Commercial Spanish Mackerel	2	2
Reef Fish	33	8
Red Snapper License Class 1	0	0
Red Snapper License Class 2	17	4
Commercial Spiny Lobster	3	2
Charter/Head boat for Coastal Pelagics	26	3
Charter/Head boat for Reef Fish	31	3
Swordfish	2	1
Shark	0	1
Rock Shrimp	3	3
Federal Dealers		0

Carrabelle has a total of over 51 vessels which call the community home port. At least 33 of those vessels hold reef fish permits and most likely 17 of those have red snapper class 2 permits (Table D.50). Six vessels hold king mackerel permits and 8 have shrimp permits. Charter permits are the most widely held after reef fish, with 31 reef fish charter permits and 26 coastal pelagic charter permits.

Table D.50. Gear Type by Homeport and Zip code in Carrabelle, Florida (NMFS 2002).

Gear Type	Homeport	Zip code
Shrimp Gear	6	3
Fish Trap Gear	0	0
Gill Net Gear	0	0
Reef Fish Bandit	7	3
Handline/Troll	5	4
Rod & Reel	8	5
Surface Longline	0	1
Bottom Longline	2	1
Lobster Trap	0	0
Diver	3	2
Other	0	0

Table D.51. Total Other Employment and Employment in Fishing Related Industry for Carrabelle, Florida (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	Number Employed
Total Other Employment		413
Fishing	114100	3
Seafood Canning	311711	0
Seafood Processing	311712	0
Boat Building	336612	0
Fish and Seafood	422460	3
Fish and Seafood Markets	445220	0
Marinas	713930	10
Total Fishing Employment		16

Carrabelle's employment reported under the zip code business patterns in Table D.51 estimates 10 people employed in the marina sector. Three people were employed in fishing and 3 more were employed in fish and seafood.

Vulnerability Index Score

The Services sector was the primary growth component for Franklin County. Carrabelle showed growth in the Services sector from 2.7% in 1980 to 33.8% in 2000. The county had a negative industrial mix with most decreases due to the Agriculture, forestry and fishing sector and the county had a positive competitive share. Carrabelle poverty rate was 19.4% for 2000 compared to 15% for Franklin County. The average wage was lower than the county average in 1990. The sum of the index score for Carrabelle is a negative 1.

National growth component	1
Industrial mix	-1
Competitive share	1
Poverty component	-1
Average wage/salary component	-1
Total	-1

2.11 St. Marks, Florida (32355)

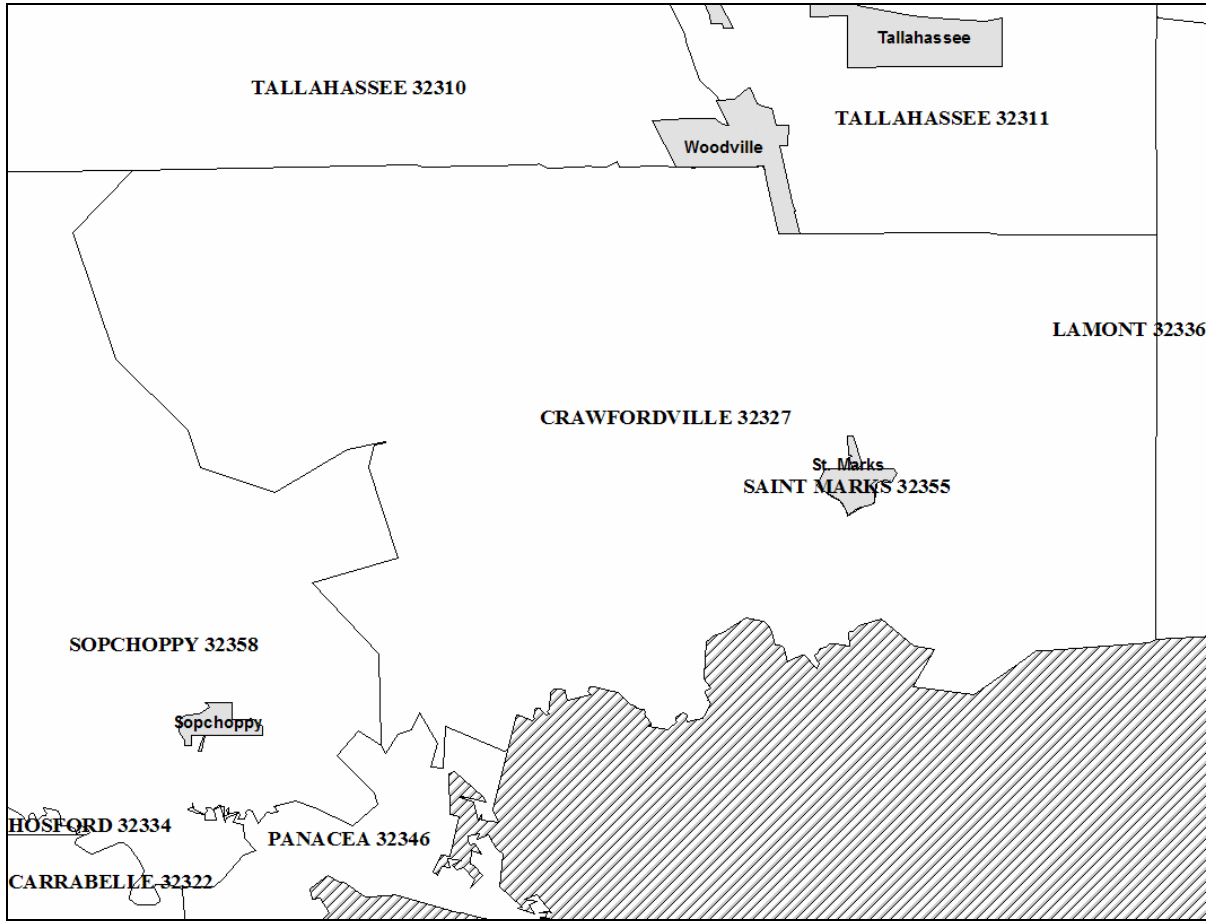


Figure D.22. St. Marks, Florida Zip code and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

St. Mark’s, Florida is located on the coast of Wakulla County. The zip code boundary is one of the few that is smaller than the CDP boundary for the community (Figure D.22).

Table D.52. Federal Permit Type by Homeport and Zip code in St. Marks, Florida for 2002

Type of Permit	Homeport	Zip code
Shrimp	0	0
Commercial King Mackerel	4	3
Commercial Spanish Mackerel	2	3
Reef Fish	14	3
Red Snapper License Class 1	0	0
Red Snapper License Class 2	7	3
Commercial Spiny Lobster	2	3
Charter/Head boat for Coastal Pelagics	3	0
Charter/Head boat for Reef Fish	1	0
Swordfish	3	0
Shark	1	2
Rock Shrimp	0	0
Federal Dealers		0

There are at least 15 federally permitted vessels that call St. Marks their homeport. Fourteen have reef fish permits, 7 red snapper class 2 permits and 4 king mackerel (Table D.52). In addition, 2 of those vessels have Spanish mackerel and/or spiny lobster permits. One vessel holds a shark permit and one holds a reef fish charter permit.

Table D.53. Gear Type by Homeport and Zip code in St. Marks, Florida for 2002
(Source: NMFS 2002)

Gear Type	Homeport	Zip code
Shrimp Gear	0	0
Fish Trap Gear	2	3
Gill Net Gear	0	0
Reef Fish Bandit	2	1
Handline/Troll	3	3
Rod & Reel	2	1
Surface Longline	0	0
Bottom Longline	2	3
Lobster Trap	0	0
Diver	1	0
Other	0	0

The type of gear most often cited in Table D.53 for St. Marks is handline/troll with fish traps, reef fish bandit gear and bottom longline also reported.

Table D.54. Total Other Employment and Employment in Fishing Related Industry for St. Marks, Florida (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	Number Employed
Total Other Employment		120
Fishing	114100	0
Seafood Canning	311711	0
Seafood Processing	311712	0
Boat Building	336612	0
Fish and Seafood	422460	0
Fish and Seafood Markets	445220	0
Marinas	713930	22
Total Fishing Employment		22

Employment in the fishing sector is almost 16% of all employment reported under the zip code business patterns with 22 employees reported for the marinas sector (Table D.54).

Vulnerability Index Score

The Services sector was the primary growth component for Wakulla County. St. Marks showed growth in the Services sector from 12.2% in 1980 to 40.4% in 2000. The county had a negative industrial mix with most decreases due to the manufacturing sector and the county had a positive competitive share. St. Mark's poverty rate was 15.2% for 2000 compared to 10.6% for Wakulla County. The average wage was lower than the county average in 2000. The sum of the index score for St. Marks is a negative 1.

National growth component	1
Industrial mix	-1
Competitive share	1
Poverty component	-1
Average wage/salary component	-1
Total	-1

2.12 Horseshoe Beach, Florida (32648)

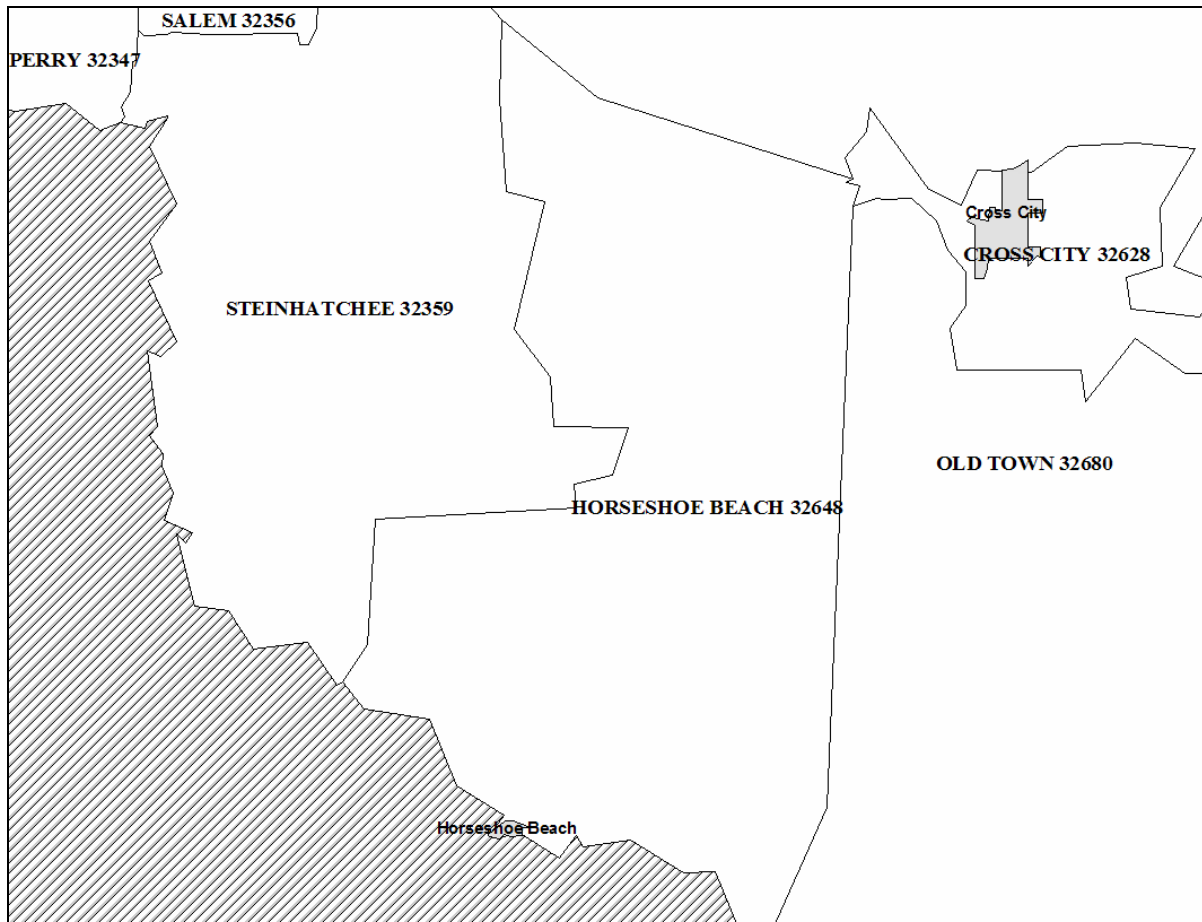


Figure D.23. Horseshoe Beach, Florida Zip code and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

Horseshoe Beach sits in the middle of Dixie County's coast just south of Steinhatchee. It is a small community with only a few hundred residents. The CDP is quite small in comparison to the large area enclosed by the zip code boundary (Figure D.23). Horseshoe Beach was listed as one of the fishing dependent communities in Jacob et al.'s (2001) research on Florida fishing communities based upon employment data for the combined zip code areas used under that protocol. As shown in Table D.55, there are at least 6 federally permitted vessels located in the Horseshoe Beach CDP or immediate zip code area. Most of those vessels hold a reef fish permit and either a reef fish charter or coastal pelagic charter permit.

This difference between boundaries for communities is indicative of the problems outlined earlier in determining the boundaries for a community and the data sources that are aligned with such boundaries. The fishing community outlined here shows little relationship to the community described in the earlier research.

Table D.55. Federal Permit Type by Homeport and Zip code in Horseshoe Beach, Florida for 2002

Type of Permit	Homeport	Zip code
Commercial King Mackerel	0	0
Commercial Spanish Mackerel	0	0
Reef Fish	4	4
Red Snapper License Class 1	0	0
Red Snapper License Class 2	0	0
Commercial Spiny Lobster	0	0
Charter/Head boat for Coastal Pelagics	4	4
Charter/Head boat for Reef Fish	5	5
Swordfish	0	0
Shark	0	0
Rock Shrimp	0	0
Federal Dealers		0

Table D.56. Gear Type by Homeport and Zip code in Horseshoe Beach, Florida for 2002 (Source: NMFS 2002)

Gear Type	Homeport	Zip code
Shrimp Gear	0	0
Fish Trap Gear	0	0
Gill Net Gear	0	0
Reef Fish Bandit	0	0
Handline/Troll	0	0
Rod & Reel	0	0
Surface Longline	0	0
Bottom Longline	0	0
Lobster Trap	0	0
Diver	0	0
Other	0	0

Table D.57. Total Other Employment and Employment in Fishing Related Industry for Horseshoe Beach, Florida (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	Number Employed
Total Other Employment		16
Fishing	114100	0
Seafood Canning	311711	0
Seafood Processing	311712	0
Boat Building	336612	0
Fish and Seafood	422460	0
Fish and Seafood Markets	445220	0
Marinas	713930	0
Total Fishing Employment		0

As shown in the tables presented, with 6 federally permitted vessels claiming Horseshoe Beach as homeport, there are no gear types reported in the federal permits file (Table D.56). Table D.57 shows a total of 16 people employed for the zip code boundary used with zip code business patterns, but none in the fishing sector. This differs from earlier research (Jacob et al. 2001) in which the community boundary was much larger and included other zipcodes within

that boundary. With so little employment listed it is easy to see why any employment in the fishing sector would generate a large percentage of total employment as reported in Jacob et al. (2001).

Vulnerability Index Score

The Government sector was the primary growth component for Dixie County. Because the Government sector was not included in the census demographic data the growth component score is 0. The county had a negative industrial mix with most decreases due to the mining sector and the county had a positive competitive share. Horseshoe Beach poverty rate was 22.2% for 2000 compared to 17.6% for Dixie County. The average wage was higher than the county average in 2000. The sum of the index score for Horseshoe Beach is zero.

National growth component	0
Industrial mix	-1
Competitive share	1
Poverty component	-1
Average wage/salary component	1
Total	0

2.13 Cedar Key, Florida (32625)

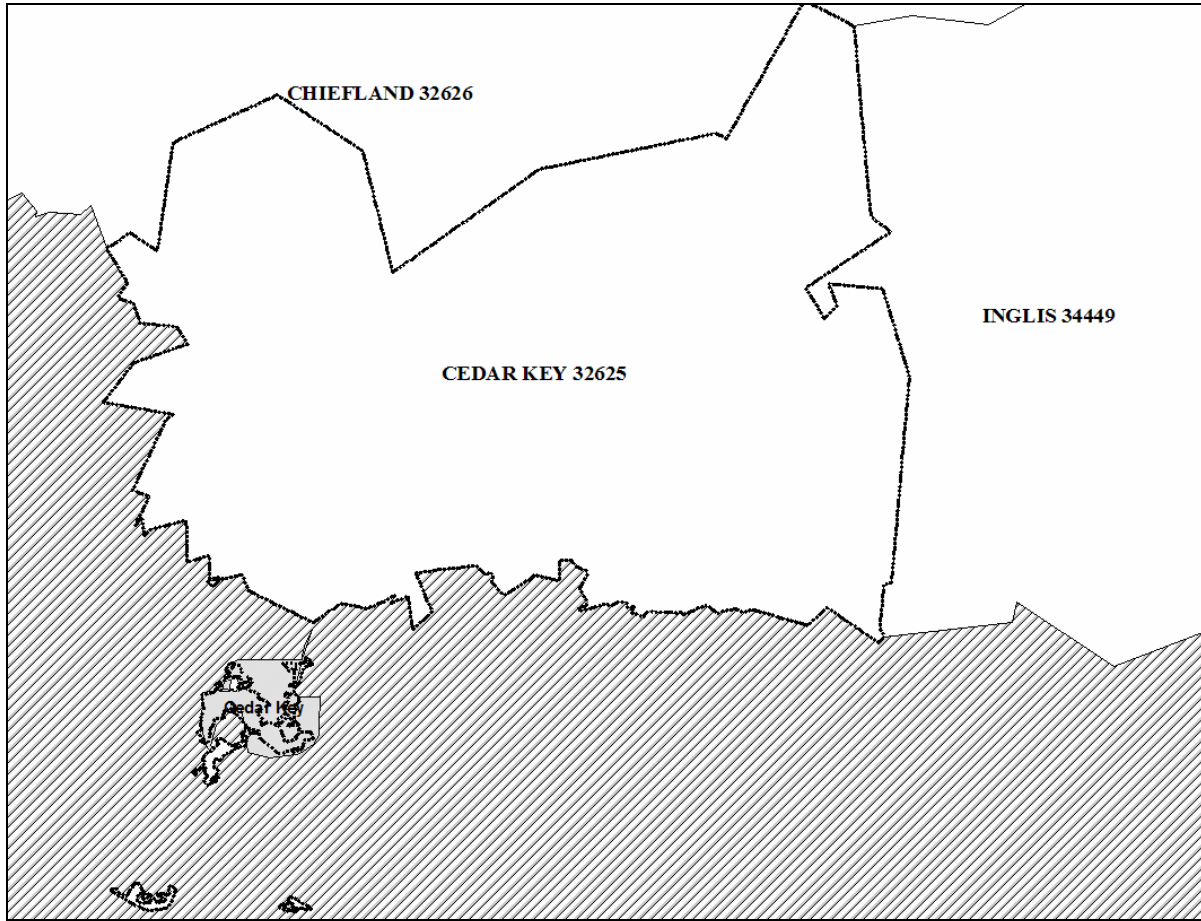


Figure D.24. Cedar Key, Florida Zip code and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

Cedar Key is located on a small group of islands just off the Levy County coast. The zip code boundary is much larger than the CDP as that boundary is situated entirely on the islands (Figure D.24).

Table D.58. Federal Permit Type by Homeport and Zip code in Cedar Key, Florida for 2002

Type of Permit	Homeport	Zip code
Shrimp	0	0
Commercial King Mackerel	3	2
Commercial Spanish Mackerel	2	2
Reef Fish	10	2
Red Snapper License Class 1	0	0
Red Snapper License Class 2	2	1
Commercial Spiny Lobster	1	0
Charter/Head boat for Coastal Pelagics	4	0
Charter/Head boat for Reef Fish	7	0
Swordfish	0	0
Shark	1	1
Rock Shrimp	0	0
Federal Dealers		0

Table D.58 lists 10 vessels reporting reef fish permits out of the 15 total that call Cedar Key their homeport. Three of those vessels list king mackerel permits and two report Spanish mackerel. Seven hold reef fish charter permits while only 4 hold charter permits for coastal pelagics.

Table D.59. Gear Type by Homeport and Zip code in Cedar Key, Florida for 2002
(Source: NMFS 2002)

Gear Type	Homeport	Zip code
Shrimp Gear	0	0
Fish Trap Gear	0	0
Gill Net Gear	1	1
Reef Fish Bandit	4	3
Handline/Troll	2	1
Rod & Reel	5	3
Surface Longline	0	0
Bottom Longline	2	2
Lobster Trap	0	0
Diver	1	0
Other	0	0

Of those vessels home ported in Cedar Key, 5 report having rod & reel gear on board, with four listing bandit gear according to Table D.58. Two vessels report having handline/troll gear and 2 report bottom longline gear.

Table D.60. Total Other Employment and Employment in Fishing Related Industry for Cedar Key, Florida (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	Number Employed
Total Other Employment		220
Fishing	114100	35
Seafood Canning	311711	0
Seafood Processing	311712	0
Boat Building	336612	0
Fish and Seafood	422460	6
Fish and Seafood Markets	445220	0
Marinas	713930	10
Total Fishing Employment		51

Interestingly, Table D.60 indicates a large presence for fishing employment with 35 people reporting fishing as their business. Ten more report their employment in the marina sector, while six others have listed fish and seafood employment. That means the fishing sectors contribute over 18% of total employment for the Cedar Key zip code area.

Vulnerability Index Score

The Services sector was the primary growth component for Levy County. Cedar Key showed growth in the Services sector from 9.8% in 1980 to 40.1% in 2000. The county had a negative industrial mix with most decreases due to the wholesale trade sector and the county had a positive competitive share. Cedar Key poverty rate was 11.0% for 2000 compared to 18.2% for Levy County. The average wage was higher than the county average in 2000. The sum of the index score for Cedar Key is positive 3.

National growth component	1
Industrial mix	-1
Competitive share	1
Poverty component	1
Average wage/salary component	1
Total	3

2.14 Yankeetown, Florida (34498)

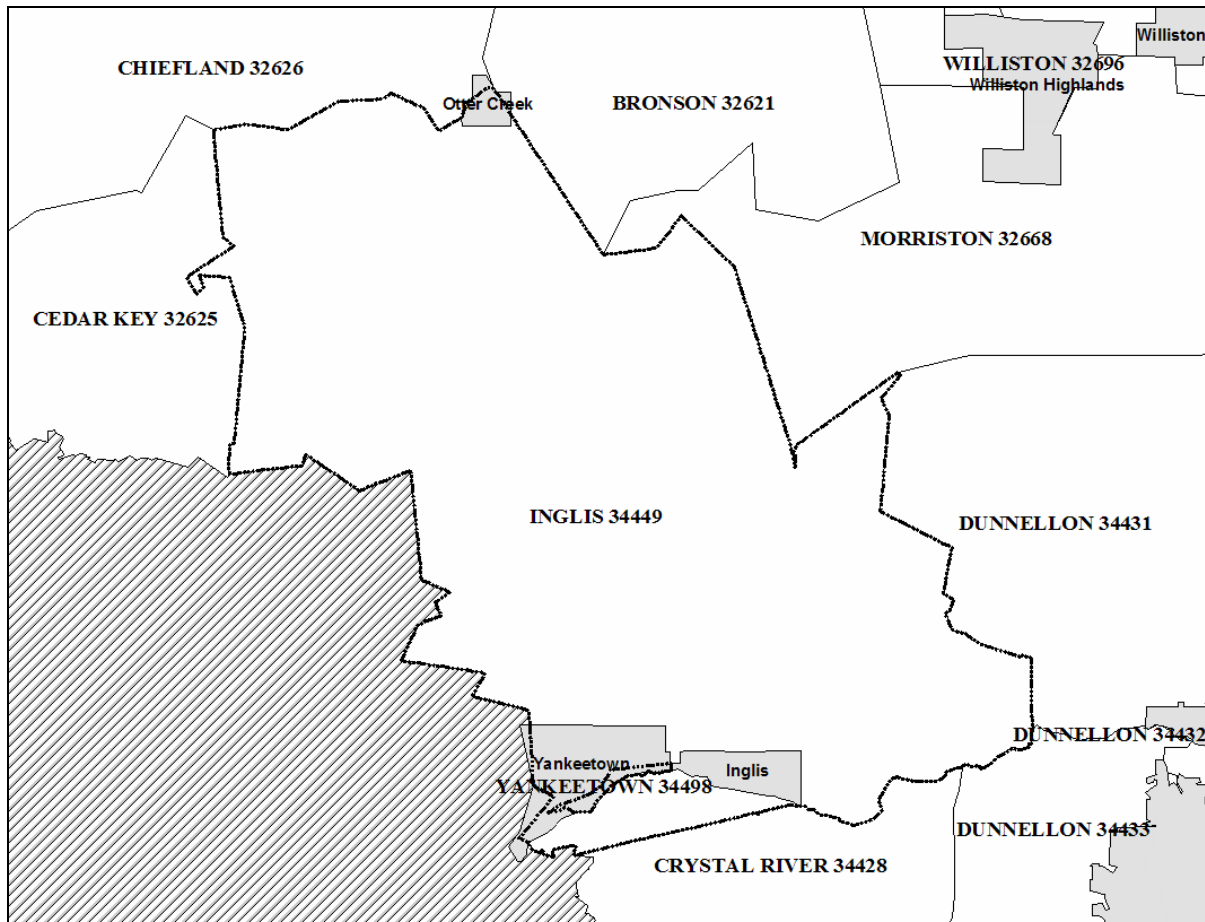


Figure D.25. Yankeetown/Inglis, Florida Zip code and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

Yankeetown and Inglis are both located at the southern end of Levy County. The communities are contiguous as shown in Figure D.25. The zip code boundary for Inglis is much larger than its CDP boundary, while the Yankeetown CDP is larger than its zip code boundary.

Table D.61. Federal Permit Type by Homeport and Zip code in Yankeetown, Florida for 2002

Type of Permit	Homeport	Zipcode
Shrimp	2	2
Commercial King Mackerel	5	1
Commercial Spanish Mackerel	3	1
Reef Fish	20	8
Red Snapper License Class 1	0	0
Red Snapper License Class 2	7	1
Commercial Spiny Lobster	3	1
Charter/Head boat for Coastal Pelagics	1	0
Charter/Head boat for Reef Fish	4	0
Swordfish	0	0
Shark	0	1
Rock Shrimp	0	0
Federal Dealers		0

Yankeetown has 22 vessels home ported with 20 listing reef fish permits. Seven of those vessels have class 2 red snapper permits (Table D.61). Five vessels home ported in Yankeetown have king mackerel permits with 3 vessels reporting a Spanish mackerel permit.

Handline/trolling gear, along with rod & reel are reported on 4 vessels each according to Table D.62. Three vessels home ported in Yankeetown list bandit gear.

Table D.62. Gear Type by Homeport and Zip code in Yankeetown, Florida for 2002 (Source: NMFS 2002)

Gear Type	Homeport	Zip code
Shrimp Gear	0	0
Fish Trap Gear	0	0
Gill Net Gear	0	0
Reef Fish Bandit	3	0
Handline/Troll	4	0
Rod & Reel	4	0
Surface Longline	0	0
Bottom Longline	0	0
Lobster Trap	0	0
Diver	1	0
Other	0	0

While Table D.63 shows only 30 people employed in other employment for the zip code boundary, there are only 3 listed under fish and seafood as the only fishing related employment.

Table D.63. Total Other Employment and Employment in Fishing Related Industry for Yankeetown, Florida (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	Number Employed
Total Other Employment		30
Fishing	114100	0
Seafood Canning	311711	0
Seafood Processing	311712	0
Boat Building	336612	0
Fish and Seafood	422460	3
Fish and Seafood Markets	445220	0
Marinas	713930	0
Total Fishing Employment		3

Vulnerability Index Score

The Services sector was the primary growth component for Levy County. Yankeetown showed growth in the Services sector from 15.2% in 1980 to 46.6% in 2000. The county had a negative industrial mix with most decreases due to the wholesale trade sector and the county had a positive competitive share. Yankeetown poverty rate was 12.1% for 2000 compared to 18.2% for Levy County. The average wage was higher than the county average in 2000. The sum of the index score for Yankeetown is a positive 3.

National growth component	1
Industrial mix	-1
Competitive share	1
Poverty component	1
Average wage/salary component	1
Total	3

2.15 Inglis, Florida (34449)

Inglis has nine vessels claiming it as homeport and four have shrimp permits and two have Spanish mackerel permits (Table D.64). One vessel has a reef fish permit and a red snapper class 2 permit.

Table D.64. Federal Permit Type by Homeport and Zip code in Inglis, Florida for 2002

Type of Permit	Homeport	Zip code
Shrimp	4	4
Commercial King Mackerel	1	0
Commercial Spanish Mackerel	2	0
Reef Fish	1	1
Red Snapper License Class 1	0	0
Red Snapper License Class 2	1	1
Commercial Spiny Lobster	0	0
Charter/Head boat for Coastal Pelagics	0	0
Charter/Head boat for Reef Fish	0	0
Swordfish	0	0
Shark	0	0
Rock Shrimp	0	0
Federal Dealers		0

Table D.65. Gear Type by Homeport and Zip code in Inglis, Florida for 2002 (Source: NMFS 2002)

Gear Type	Homeport	Zip code
Shrimp Gear	0	0
Fish Trap Gear	2	0
Gill Net Gear	2	0
Reef Fish Bandit	2	0
Handline/Troll	0	0
Rod & Reel	2	0
Surface Longline	0	0
Bottom Longline	0	0
Lobster Trap	0	0
Diver	0	0
Other	0	0

Both vessels home ported in Inglis report the same gear types with fish trap, gill net and rod & reel gear (Table D.65). While Inglis has much more employment reported for its zip code boundary than Yankeetown, it has no reported employment in those sectors chosen to represent the fishing sector (Table D.66).

Table D.66. Total Other Employment and Employment in Fishing Related Industry for Inglis, Florida (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	Number Employed
Total Other Employment		600
Fishing	114100	0
Seafood Canning	311711	0
Seafood Processing	311712	0
Boat Building	336612	0
Fish and Seafood	422460	0
Fish and Seafood Markets	445220	0
Marinas	713930	0
Total Fishing Employment		0

Vulnerability Index Score

The Services sector was the primary growth component for Levy County. Inglis showed growth in the Services sector from 3.2% in 1980 to 29.3% in 2000. The county had a negative industrial mix with most decreases due to the wholesale trade sector and the county had a positive competitive share. Inglis poverty rate was 22.1% for 2000 compared to 18.2% for Levy County. The average wage was lower than the county average in 2000. The sum of the index score for Inglis is negative 1.

National growth component	1
Industrial mix	-1
Competitive share	1
Poverty component	-1
Average wage/salary component	-1
Total	-1

2.16 Crystal River, Florida (34428, 34429)

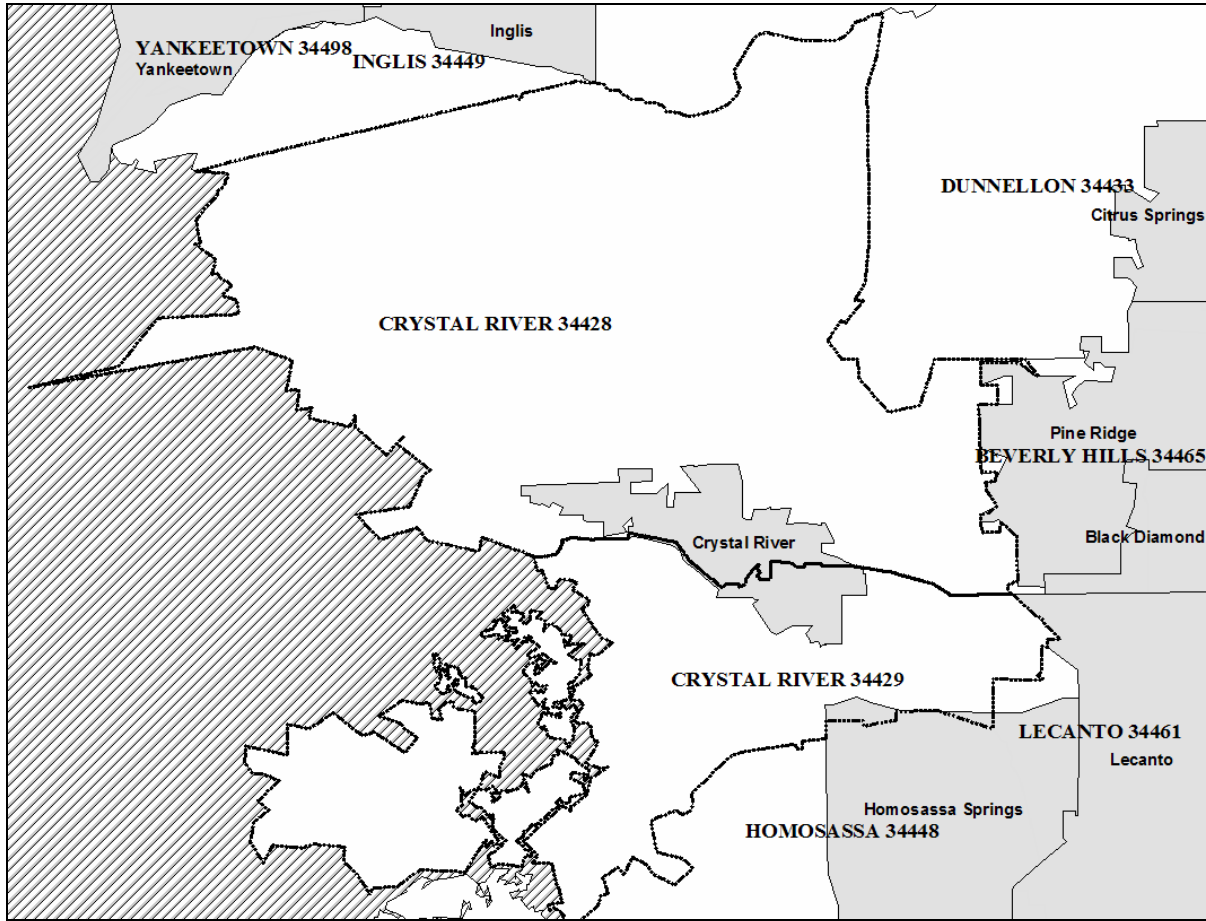


Figure D.26. Crystal River, Florida Zip code and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

Crystal River is centrally located on the Citrus County coast. The CDP straddles two zip code boundaries that cover the northern half of the county’s coast (Figure D.26).

Table D.67. Federal Permit Type by Homeport and Zip code in Crystal River, Florida for 2002

Type of Permit	Homeport	Zip code
Shrimp	7	5
Commercial King Mackerel	9	6
Commercial Spanish Mackerel	9	6
Reef Fish	33	12
Red Snapper License Class 1	0	0
Red Snapper License Class 2	12	4
Commercial Spiny Lobster	3	1
Charter/Head boat for Coastal Pelagics	9	1
Charter/Head boat for Reef Fish	11	4
Swordfish	0	0
Shark	2	8
Rock Shrimp	0	0
Federal Dealers		0

There are over 44 vessels that call Crystal River their homeport. Thirty-three of those vessels have reef fish permits according to Table D.67, with 12 indicating they hold red snapper class 2 permits. Nine vessels have king mackerel permits, and 9 have Spanish mackerel and 7 have shrimp permits. Eleven vessels report having charter permits for reef fish and another 9 for coastal pelagics.

Table D.68. Gear Type by Homeport and Zip code in Crystal River, Florida for 2002
(Source: NMFS 2002)

Gear Type	Homeport	Zip code
Shrimp Gear	1	0
Fish Trap Gear	4	4
Gill Net Gear	6	6
Reef Fish Bandit	5	5
Handline/Troll	8	3
Rod & Reel	10	8
Surface Longline	1	1
Bottom Longline	1	1
Lobster Trap	1	0
Diver	2	0
Other	6	2

The predominant gear type listed under Table D.68 is rod & reel with handline/trolling gear close behind with 8 vessels reporting that gear type. Six vessels report having gill net gear on board and another four report fish trap gear.

Table D.69. Total Other Employment and Employment in Fishing Related Industry for Crystal River, Florida (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	Number Employed
Total Other Employment		9482
Fishing	114100	10
Seafood Canning	311711	0
Seafood Processing	311712	0
Boat Building	336612	0
Fish and Seafood	422460	15
Fish and Seafood Markets	445220	7
Marinas	713930	30
Total Fishing Employment		62

Fishing employment in Crystal River is reported at 62 people with the majority in the marinas sector with 30 people employed there (Table D.69). Fifteen more are listed in the fish and seafood sector with 10 listed in fishing.

Vulnerability Index Score

The Services sector was the primary growth component for Citrus County. Crystal River showed growth in the Services sector from 20.3% in 1980 to 41.3% in 2000. The county had a positive industrial mix with most increases due to the construction sector and the county had a positive competitive share. Crystal River poverty rate was 9.1% for 2000 compared to 11.5% for Citrus County. The average wage was higher than the county average in 2000. The sum of the index score for Crystal River is a positive 5.

National growth component	1
Industrial mix	1
Competitive share	1
Poverty component	1
Average wage/salary component	1
Total	5

2.17 Homosassa, Florida (34446, 34448)

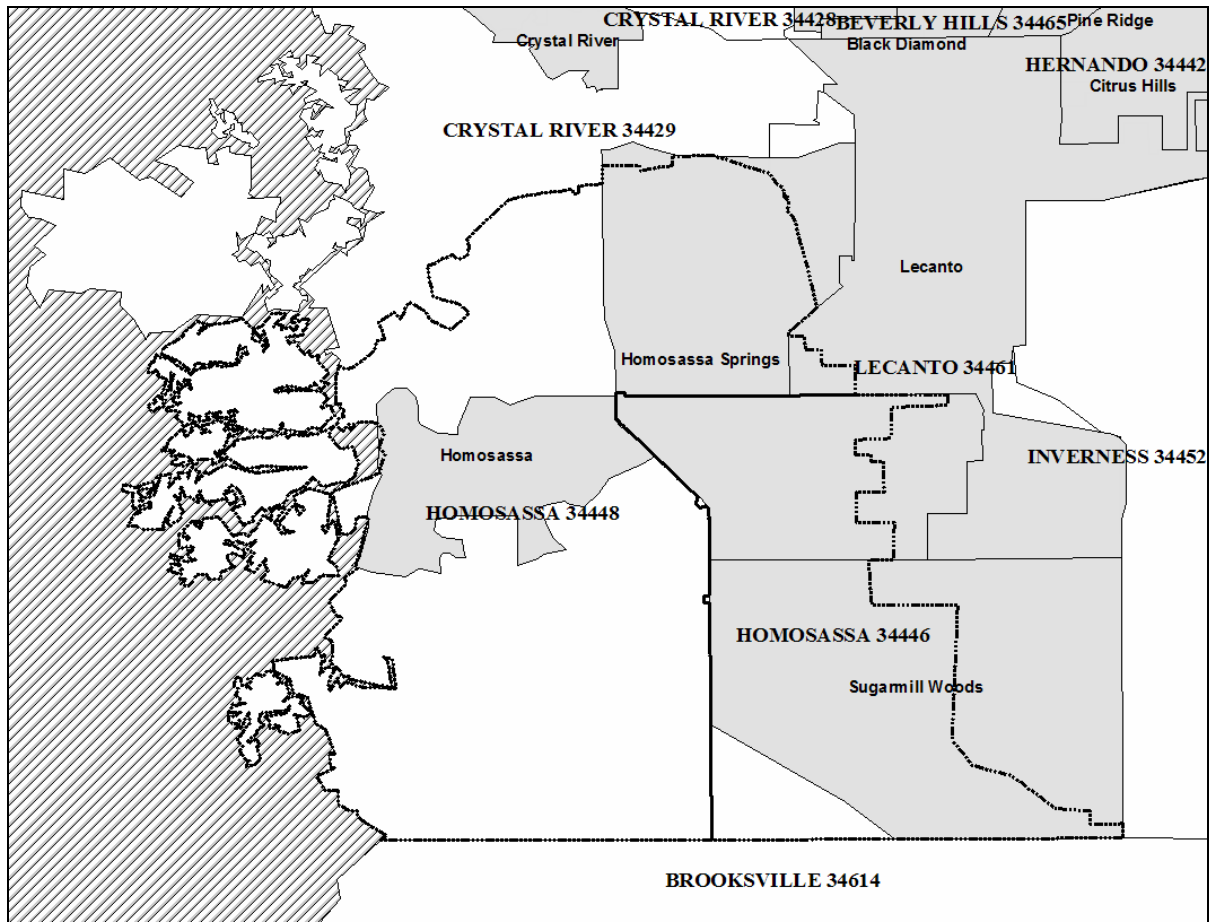


Figure D.27. Homosassa, Florida Zip code and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

The Homosassa zip code boundary covers the southern half of the Citrus County coast (Figure D.27). The Homosassa CDP sits in the middle of those zip codes and is joined by two other CDPs within the zip code boundaries, Homosassa Springs and Sugarmill Woods.

Table D.70. Federal Permit Type by Homeport and Zip code in Homosassa, Florida for 2002

Type of Permit	Homeport	Zip code
Shrimp	3	3
Commercial King Mackerel	4	3
Commercial Spanish Mackerel	10	5
Reef Fish	10	7
Red Snapper License Class 1	0	0
Red Snapper License Class 2	5	4
Commercial Spiny Lobster	0	0
Charter/Head boat for Coastal Pelagics	5	0
Charter/Head boat for Reef Fish	6	0
Swordfish	0	1
Shark	2	8
Rock Shrimp	0	0
Federal Dealers		1

Nineteen vessels report Homosassa as their homeport and 10 of those have listed reef fish permits as indicated in Table D.70. There are 5 red snapper class 2 permits. Also there are 10 vessels that have Spanish mackerel permits and 4 of the vessels have king mackerel permits.

Table D.71. Gear Type by Homeport and Zip code in Homosassa, Florida for 2002
(Source: NMFS 2002)

Gear Type	Homeport	Zip code
Shrimp Gear	1	0
Fish Trap Gear	3	3
Gill Net Gear	3	1
Reef Fish Bandit	4	3
Handline/Troll	1	0
Rod & Reel	5	3
Surface Longline	0	0
Bottom Longline	2	2
Lobster Trap	0	0
Diver	0	0
Other	2	2

For those vessels home porting in Homosassa, the predominant gear type is rod & reel gear with four reporting reef fish bandit gear (Table D.71). Three vessels report either fish trap gear or gill net gear.

Table D.72. Total Other Employment and Employment in Fishing Related Industry for Homosassa, Florida (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	Number Employed
Total Other Employment		2592
Fishing	114100	3
Seafood Canning	311711	0
Seafood Processing	311712	0
Boat Building	336612	0
Fish and Seafood	422460	0
Fish and Seafood Markets	445220	0
Marinas	713930	7
Total Fishing Employment		10

Employment in the fishing sector is relatively small for Homosassa and is primarily in the marina sector as shown in Table D.72. Three other are reported to be employed in the fishing sector.

Vulnerability Index Score

The Services sector was the primary growth component for Citrus County. Homosassa showed growth in the Services sector from 31.5% in 1990 to 42.3% in 2000. The county had a positive industrial mix with most increases due to the construction sector and the county had a positive competitive share. Homosassa poverty rate was 10.6% for 2000 compared to 11.5% for Citrus County. The average wage was higher than the county average in 2000. The sum of the index score for Homosassa is a positive five.

National growth component	1
Industrial mix	1
Competitive share	1
Poverty component	1
Average wage/salary component	1
Total	5

2.18 New Port Richey, Florida (34652, 34653, 34654, 34655)

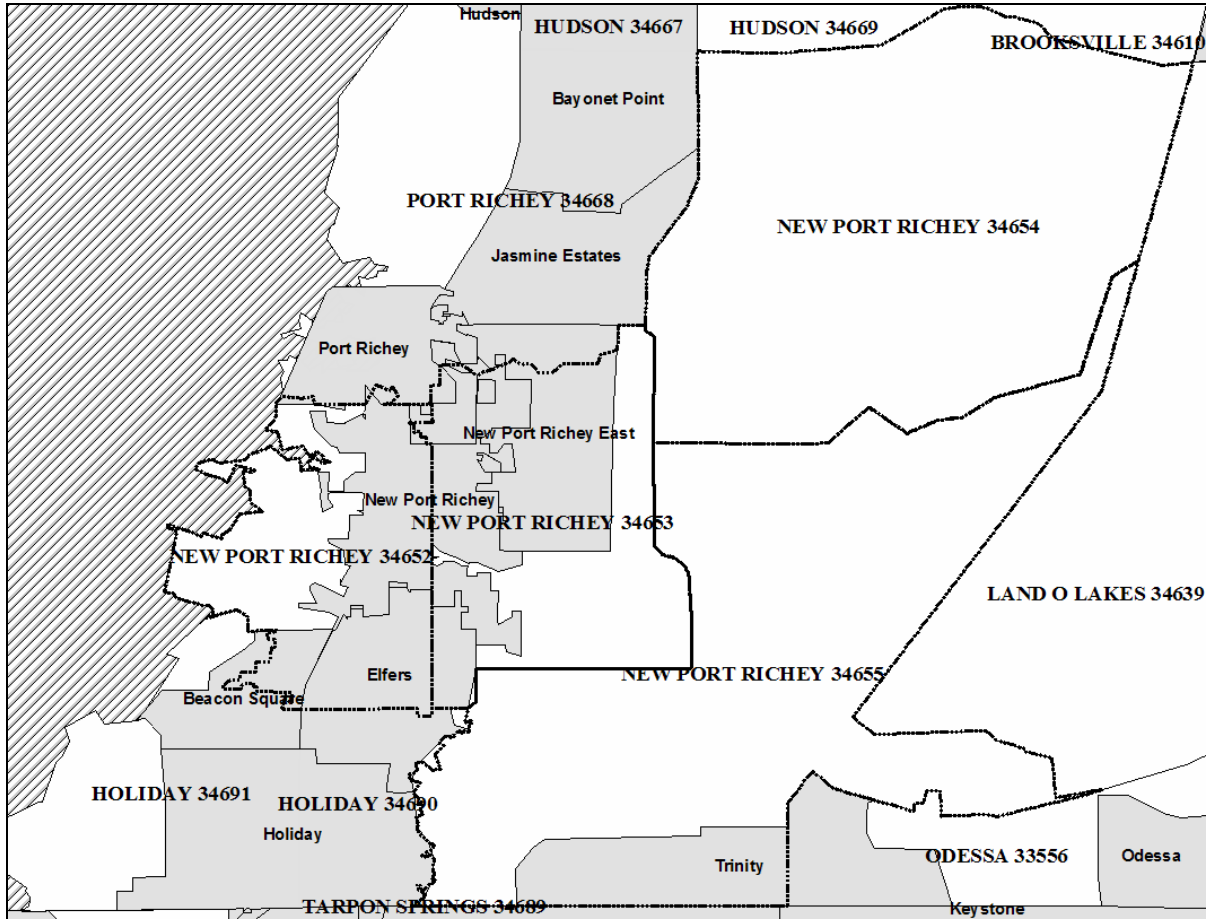


Figure D.28. New Port Richey, Florida Zip code and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

New Port Richey is located in Pasco County, just south of being centrally located on the county coastline. The zip code boundaries extend north and to the east of the CDP area (Figure D.28). The other CDPs enclosed by the zip code areas include New Port Richey East, Elfers, and a portion of Beacon Square.

Table D.73. Federal Permit Type by Homeport and Zip code in New Port Richey, Florida for 2002

Type of Permit	Homeport	Zip code
Commercial King Mackerel	2	5
Commercial Spanish Mackerel	1	2
Reef Fish	5	4
Red Snapper License Class 1	0	0
Red Snapper License Class 2	3	2
Commercial Spiny Lobster	6	8
Charter/Head boat for Coastal Pelagics	9	3
Charter/Head boat for Reef Fish	9	3
Swordfish	0	0
Shark	0	0
Rock Shrimp	5	7
Federal Dealers		1

There are 19 vessels reporting New Port Richey as homeport. Six of those vessels report having spiny lobster permits (Table D.73). Nine vessels report both permits for coastal pelagic and reef fish charters. Four report shrimp gear and 3 have listed reef fish and handline gear in Table D.74.

Table D.74. Gear Type by Homeport and Zip code in New Port Richey, Florida for 2002 (Source: NMFS 2002)

Gear Type	Homeport	Zip code
Shrimp Gear	4	6
Fish Trap Gear	1	0
Gill Net Gear	0	0
Reef Fish Bandit	3	2
Handline/Troll	3	2
Rod & Reel	7	7
Surface Longline	0	0
Bottom Longline	1	0
Lobster Trap	1	0
Diver	3	2
Other	0	0

There are a total of 9 persons reported as being employed in the fishing sector with 6 in fishing and 3 in boat building according to the zip code business patterns reported in Table D.75.

Table D.75. Total Other Employment and Employment in Fishing Related Industry for New Port Richey, Florida (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	Number Employed
Total Other Employment		20423
Fishing	114100	6
Seafood Canning	311711	0
Seafood Processing	311712	0
Boat Building	336612	3
Fish and Seafood	422460	0
Fish and Seafood Markets	445220	0
Marinas	713930	0
Total Fishing Employment		9

Vulnerability Index Score

The Services sector was the primary growth component for Pasco County. New Port Richey showed growth in the Services sector from 24.4% in 1980 to 47.8% in 2000. The county had a positive industrial mix with most increases due to the construction sector and the county had a positive competitive share. New Port Richey poverty rate was 15.8% for 2000 compared to 10.5% for Pasco County. The average wage was lower than the county average in 2000. The sum of the index score for New Port Richey is positive one.

National growth component	1
Industrial mix	1
Competitive share	1
Poverty component	-1
Average wage/salary component	-1
Total	1

2.19 Tarpon Springs, Florida (34689)

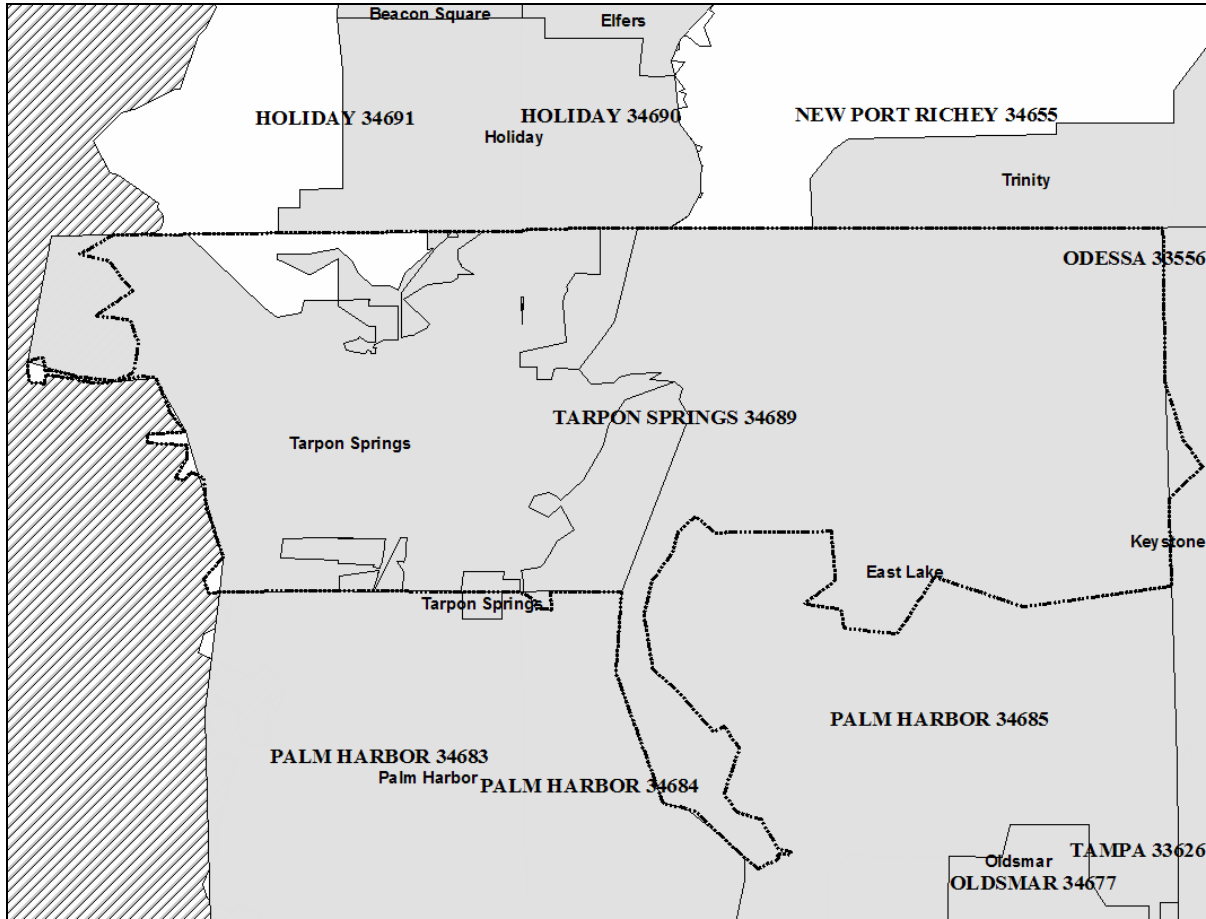


Figure D.29. Tarpon Springs, Florida Zip code and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

Tarpon Springs is located at the northern end of Pinellas County. The Tarpon Springs zip code area extends beyond the Tarpon Springs CDP into the East Lake CDP (Figure D.29).

Table D.76. Federal Permit Type by Homeport and Zip code in Tarpon Springs, Florida for 2002

Type of Permit	Homeport	Zip code
Shrimp	10	10
Commercial King Mackerel	20	14
Commercial Spanish Mackerel	20	16
Reef Fish	57	36
Red Snapper License Class 1	0	0
Red Snapper License Class 2	22	12
Commercial Spiny Lobster	19	17
Charter/Head boat for Coastal Pelagics	2	2
Charter/Head boat for Reef Fish	12	12
Swordfish	1	1
Shark	8	3
Rock Shrimp	16	11
Federal Dealers		3

There are over 78 vessels that call Tarpon Springs homeport with 57 of those vessels holding reef fish permits and 20 have red snapper class 2 permits. Spanish mackerel are the next most frequent with 27 vessels reporting that permit and 23 vessels have king mackerel permits. There are 22 vessels with spiny lobster and 16 with rock shrimp permits as shown in Table D.76. Ten of those vessels hold shrimp permits.

Table D.77. Gear Type by Homeport and Zip code in Tarpon Springs, Florida for 2002 (Source: NMFS 2002)

Gear Type	Homeport	Zip code
Shrimp Gear	16	10
Fish Trap Gear	3	3
Gill Net Gear	6	3
Reef Fish Bandit	27	17
Handline/Troll	19	12
Rod & Reel	33	19
Surface Longline	2	2
Bottom Longline	3	3
Lobster Trap	1	1
Diver	17	9
Other	7	6

Most employment in the fishing sector for Tarpon Springs is in boat building with 116 employed in that sector. Another 44 are employed in marinas and only 3 listed as employed in fishing. There are 19 employed in the fish and seafood sector according to the zip code business patterns for Tarpon Spring as shown in Table D.78.

Table D.78. Total Other Employment and Employment in Fishing Related Industry for Tarpon Springs, Florida (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	Number Employed
Total Other Employment		10746
Fishing	114100	3
Seafood Canning	311711	0
Seafood Processing	311712	0
Boat Building	336612	116
Fish and Seafood	422460	19
Fish and Seafood Markets	445220	0
Marinas	713930	44
Total Fishing Employment		182

Vulnerability Index Score

The Services sector was the primary growth component for Pinellas County. Tarpon Springs showed growth in the Services sector from 21.6% in 1980 to 45.7% in 2000. The county had a positive industrial mix with most increases due to the construction sector and the county had a positive competitive share. Tarpon Springs' poverty rate was 9.7% for 2000 compared to 9.7% for Pinellas County. The average wage was higher than the county average in 2000. The sum of the index score for Tarpon Springs is positive four.

National growth component	1
Industrial mix	1
Competitive share	1
Poverty component	0
Average wage/salary component	1
Total	4

2.20 Clearwater, Florida (33755, 33756, 33759-65)

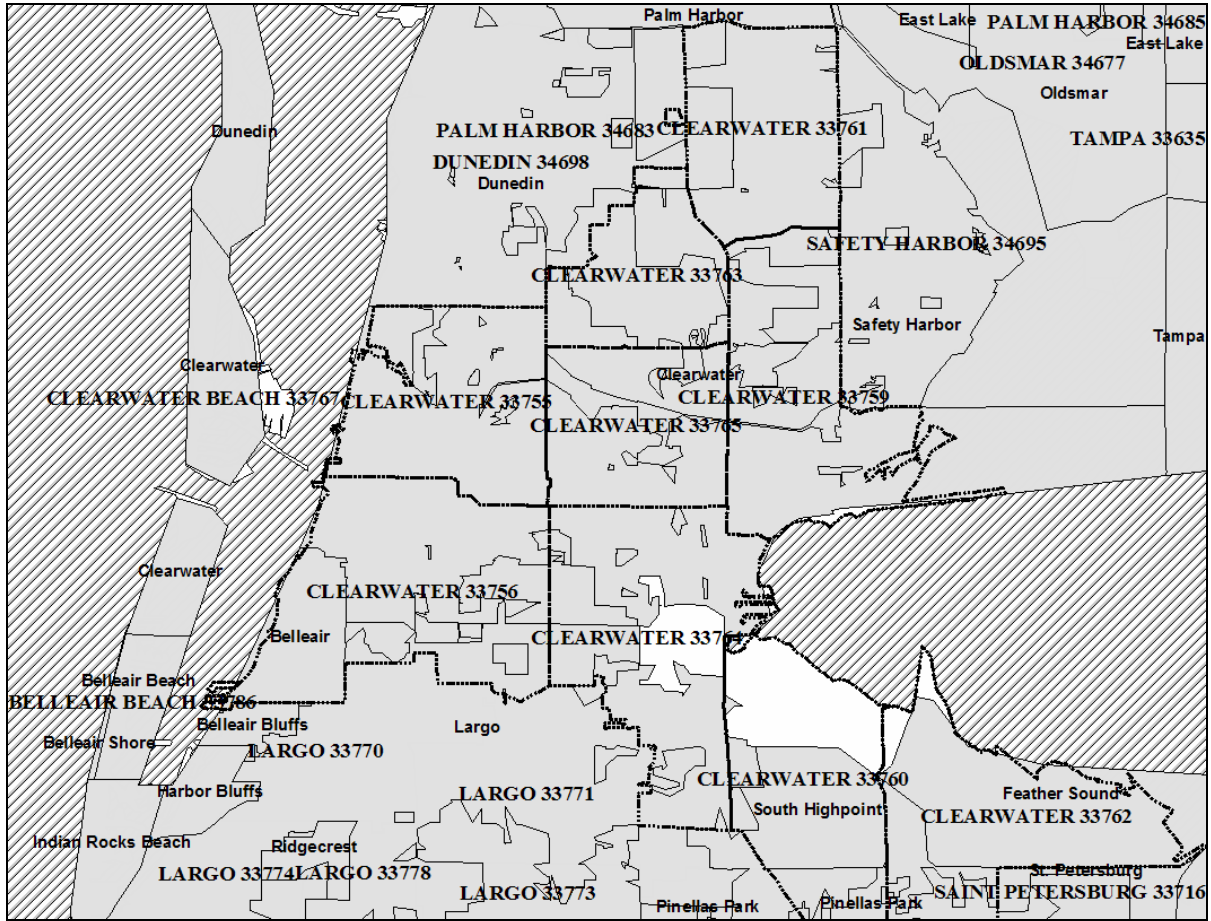


Figure D.29. Clearwater, Florida Zip code and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

Clearwater is located in Pinellas County North of St. Petersburg and between the northwestern shore of Tampa Bay and the Gulf coast barrier island of Clearwater Beach. The zip code boundary is large as it encompasses nine zip code areas.

Table D.79. Federal Permit Type by Homeport and Zip code in Clearwater, Florida for 2002

Type of Permit	Homeport	Zip code
Shrimp	0	0
Commercial King Mackerel	8	8
Commercial Spanish Mackerel	6	3
Reef Fish	26	8
Red Snapper License Class 1	0	0
Red Snapper License Class 2	11	3
Commercial Spiny Lobster	4	1
Charter/Head boat for Coastal Pelagics	24	3
Charter/Head boat for Reef Fish	26	3
Swordfish	2	0
Shark	4	0
Rock Shrimp	0	1
Federal Dealers		0

There are 44 vessels that claim Clearwater as home port. Twenty-six of those vessels have reef fish permits and 11 of those have red snapper class 2 licenses (Table D.79). Eight vessels have king mackerel permits and 6 have Spanish mackerel. Twenty-six vessels report charter permits for reef fish and 24 for coastal pelagics.

Table D.80. Gear Type by Homeport and Zip code in Clearwater for 2002 (Source: NMFS 2002)

Gear Type	Homeport	Zip code
Shrimp Gear	0	2
Fish Trap Gear	0	0
Gill Net Gear	0	1
Reef Fish Bandit	8	5
Handline/Troll	3	2
Rod & Reel	13	8
Surface Longline	0	0
Bottom Longline	2	3
Lobster Trap	0	0
Diver	0	3
Other	1	1

The gear type reported most often in Table D.80 for vessels home ported in Clearwater is rod & reel with 13 vessels listing that type of gear. Eight vessels reported reef fish bandit gear.

Employment in the fishing sectors for the Clearwater zip code boundaries is listed as 128 in Table D.81. The majority of that is in the boat building sector with 58 and another 41 in the fish and seafood market sector. Twenty-four are reported to be employed in the marinas sector.

Table D.81. Total Other Employment and Employment in Fishing Related Industry for Clearwater, Florida (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	2.20.1.1.1 Number Employed
Total Other Employment		75945
Fishing	114100	0
Seafood Canning	311711	0
Seafood Processing	311712	0
Boat Building	336612	56
Fish and Seafood	422460	7
Fish and Seafood Markets	445220	41
Marinas	713930	24
Total Fishing Employment		128

Vulnerability Index Score

The Services sector was the primary growth component for Pinellas County. Clearwater showed growth in the Services sector from 21.3% in 1980 to 43.0% in 2000. The county had a positive industrial mix with most increases due to the construction sector and the county had a positive competitive share. Clearwater poverty rate was 12.0% for 2000 compared to 9.7% for Pinellas County. The average wage was the lower as the county average in 1990. The sum of the index score for Clearwater is positive one.

National growth component	1
Industrial mix	1
Competitive share	1
Poverty component	-1
Average wage/salary component	-1
Total	1

2.21 Madeira Beach, Florida (33708, 33738)

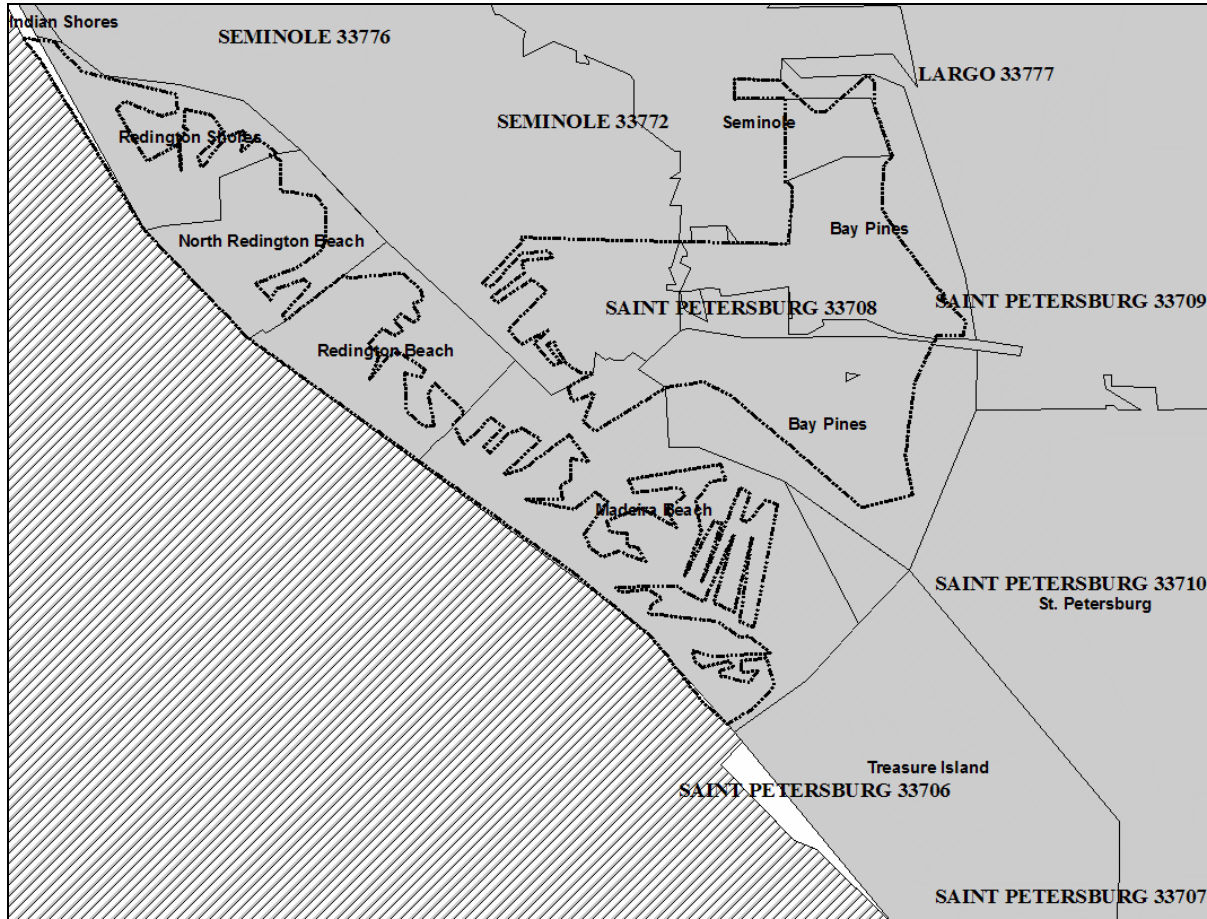


Figure D.30. Madeira Beach, Florida Zip code and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

Madeira Beach is just northwest of St. Petersburg in Pinellas County. The Madeira Beach zip code boundaries encompass a number of other CDPs including: Redington Beach, North Redington Beach, Redington Shores, and Bay Pines (Figure D.30).

Table D.82. Federal Permit Type by Homeport and Zip code in Madeira Beach, Florida for 2002

Type of Permit	Homeport	Zip code
Shrimp	1	1
Commercial King Mackerel	11	4
Commercial Spanish Mackerel	20	11
Reef Fish	54	21
Red Snapper License Class 1	0	0
Red Snapper License Class 2	37	14
Commercial Spiny Lobster	7	3
Charter/Head boat for Coastal Pelagics	23	4
Charter/Head boat for Reef Fish	28	6
Swordfish	13	6
Shark	34	9
Rock Shrimp	1	1
Federal Dealers		2

There are 73 vessels which list their home port as Madeira Beach according to the permit data and of those 54 hold reef fish permits (Table D.82). Most of those (37) also hold red snapper class 2 permits and 34 hold either shark permits. Twenty have Spanish Mackerel permits while ten hold king mackerel permits and 8 have spiny lobster. As far as charter permits 28 hold reef fish and 23 have coastal pelagic charter permits.

A special study on the impacts of a one to two month closure of the grouper fishery on Madeira Beach was conducted by Lucas (2001). In that study, Lucas estimates approximately 135 vessels are home ported and off load grouper in Madeira Beach on a regular basis. She also stated that there are 87 bottom longline vessels and at least 48 bandit rig vessels that call Madeira Beach homeport. While the estimates here are much lower, it may be an artifact of self reporting of homeport. There may be many other vessels that dock in Madeira Beach that may have listed another location as their homeport.

Table D.83. Gear Type by Homeport and Zip code in Madeira Beach, Florida for 2002
(Source: NMFS 2002)

Gear Type	Homeport	Zip code
Shrimp Gear	0	0
Fish Trap Gear	2	2
Gill Net Gear	0	0
Reef Fish Bandit	27	11
Handline/Troll	7	3
Rod & Reel	21	11
Surface Longline	13	6
Bottom Longline	21	11
Lobster Trap	2	1
Diver	4	2
Other	1	1

According to zip code business patterns (Table D.84) there are 28 persons listed as employed in the marinas sector with another 21 in fish and seafood. Three more in fishing adds up to a total of 52 in fishing sectors combined.

Table D.84. Total Other Employment and Employment in Fishing Related Industry for Madeira Beach, Florida (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	Number Employed
Total Other Employment		4092
Fishing	114100	3
Seafood Canning	311711	0
Seafood Processing	311712	0
Boat Building	336612	0
Fish and Seafood	422460	21
Fish and Seafood Markets	445220	0
Marinas	713930	28
Total Fishing Employment		52

Vulnerability Index Score

The Services sector was the primary growth component for Pinellas County. Madeira Beach showed growth in the Services sector from 25.5% in 1980 to 30.5% in 2000. The county had a positive industrial mix with most increases due to the construction sector and the county had a positive competitive share. Madeira Beach poverty rate was 9.8% for 2000 compared to 9.7% for Pinellas County. The average wage was the same as the county average in 2000. The sum of the index score for Madeira Beach is positive two.

National growth component	1
Industrial mix	1
Competitive share	1
Poverty component	0
Average wage/salary component	-1
Total	2

2.22 St. Petersburg, Florida (33701-16)

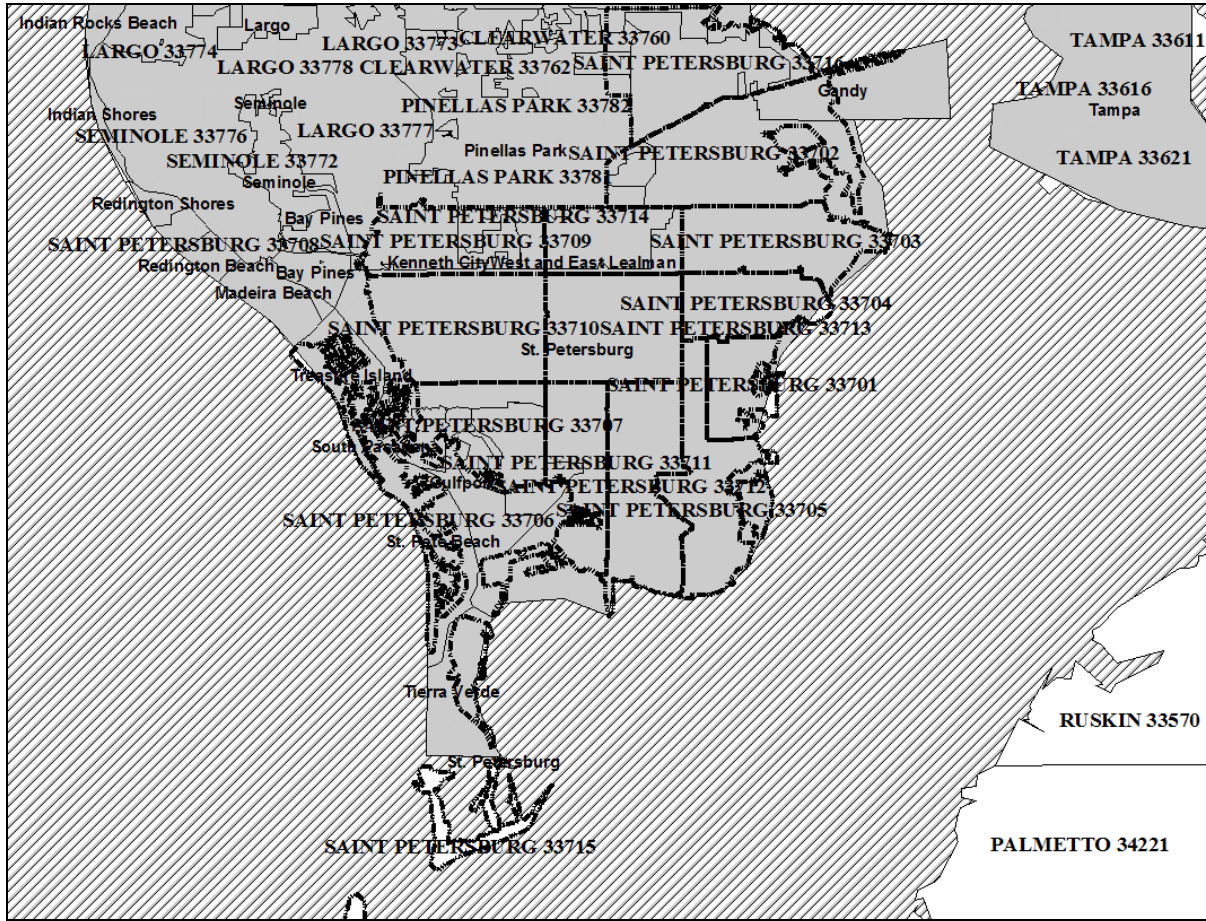


Figure D.31. St. Petersburg, Florida Zip code and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

The St. Petersburg zip code area covers many different zip code boundaries and several CDPs that sit on the end of a peninsula which stretches to the mouth of Tampa Bay (Figure D.31).

Table D.85. Federal Permit Type by Homeport and Zip code in St. Petersburg, Florida for 2002.

Type of Permit	Homeport	Zip code
Shrimp	9	9
Commercial King Mackerel	14	21
Commercial Spanish Mackerel	15	27
Reef Fish	31	31
Red Snapper License Class 1	0	0
Red Snapper License Class 2	9	20
Commercial Spiny Lobster	4	8
Charter/Head boat for Coastal Pelagics	30	12
Charter/Head boat for Reef Fish	32	12
Swordfish	5	4
Shark	8	11
Rock Shrimp	0	3
Federal Dealers		3

There are approximately 60 vessels that call St. Petersburg home port and quite a few more which have owners who reside within the zip code boundaries (Table D.88). Although some of the vessels home ported there hold either king mackerel or Spanish mackerel permits, almost double that number of vessels (31) hold reef fish permits. Of the over 30 vessels which do hold reef fish permits, 20 hold red snapper class 2 permits in the zip code area. Over 25 have Spanish mackerel permits and 20 hold king mackerel. There are twelve vessels which hold charter permits for either coastal pelagics or reef fish in the zip code area, but over 30 vessels home ported there hold each type. There are 11 vessels with shark permits owned by individuals within the zip code area and only 8 vessel that calls St. Petersburg homeport holds that permit.

Table D.86. Gear Type by Homeport and Zip code in St. Petersburg, Florida for 2002
(Source: NMFS 2002)

Gear Type	Homeport	Zip code
Shrimp Gear	4	5
Fish Trap Gear	1	2
Gill Net Gear	7	8
Reef Fish Bandit	10	26
Handline/Troll	9	14
Rod & Reel	20	37
Surface Longline	1	7
Bottom Longline	6	19
Lobster Trap	1	2
Diver	8	11
Other	1	1

The predominant gear type for those reporting St. Petersburg as homeport and the zip code area is rod & reel (Table D.86). Reef fish bandit gear follows with 19 vessels in the zip code area reporting bottom longline gear and 11 reporting dive gear.

Table D.87 Total Other Employment and Employment in Fishing Related Industry for St. Petersburg, Florida (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	Number Employed
Total Other Employment		136830
Fishing	114100	18
Seafood Canning	311711	0
Seafood Processing	311712	0
Boat Building	336612	102
Fish and Seafoods	422460	216
Fish and Seafood Markets	445220	15
Marinas	713930	220
Total Fishing Employment		571

Vulnerability Index Score

The Services sector was the primary growth component for Pinellas County. St. Petersburg showed growth in the Services sector from 24.3% in 1980 to 46.1% in 2000. The county had a positive industrial mix with most increases due to the construction sector and the county had a positive competitive share. St. Petersburg poverty rate was 12.9% for 2000 compared to 9.2% for Pinellas County. The average wage was lower than the county average in 2000. The sum of the index score for St. Petersburg is a positive 1.

National growth component	1
Industrial mix	1
Competitive share	1
Poverty component	-1
Average wage/salary component	-1
Total	1

2.23 Tampa, Florida

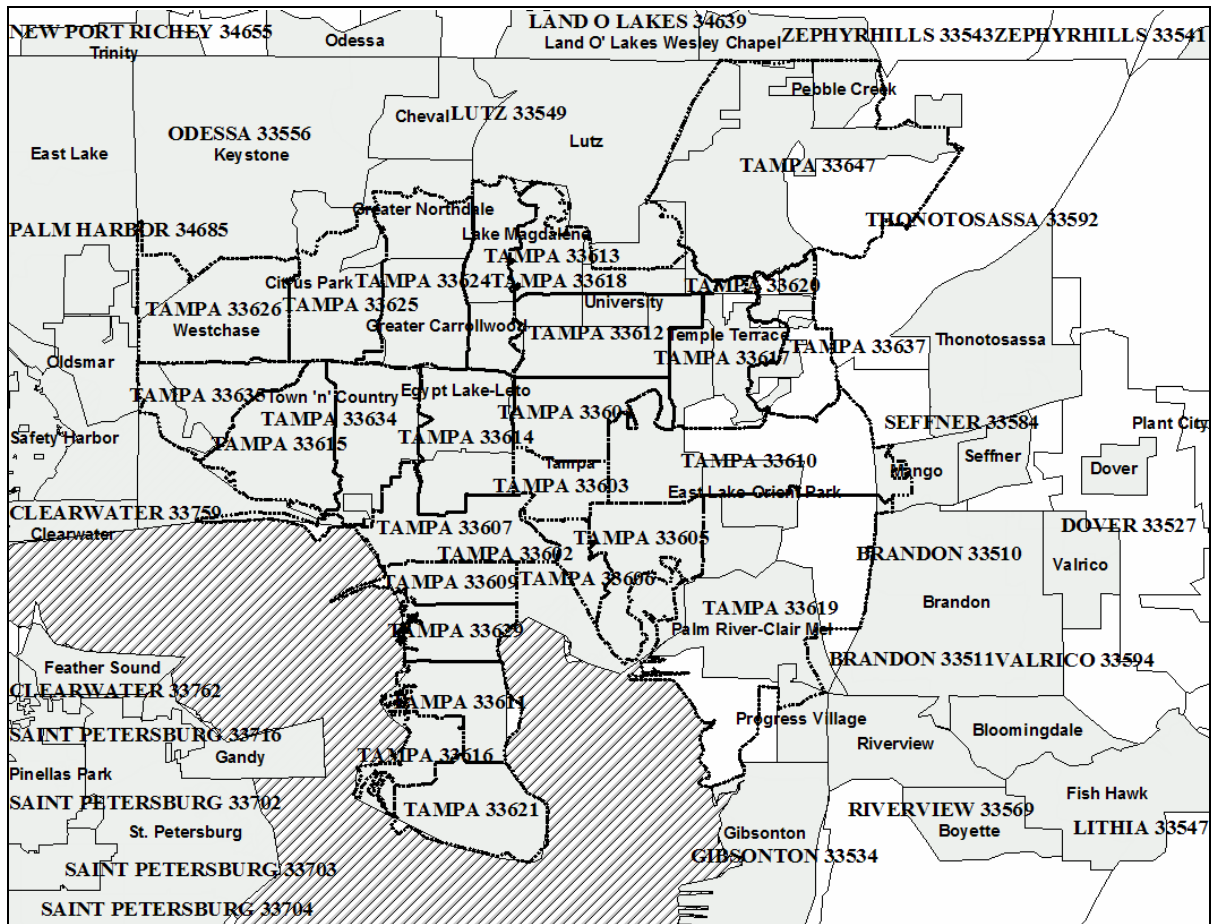


Figure D.32. Tampa, Florida Zip code and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

The city of Tampa sits at the top and between Hillsborough Bay and Old Tampa Bay in Hillsborough County. The zip code area includes a number of other CDPs as shown in Figure D.32.

Table D.88. Federal Permit Type by Homeport and Zip code in Tampa, Florida for 2002

Type of Permit	Homeport	Zip code
Shrimp	15	-
Commercial King Mackerel	9	-
Commercial Spanish Mackerel	5	-
Reef Fish	28	-
Red Snapper License Class 1	0	-
Red Snapper License Class 2	9	-
Commercial Spiny Lobster	11	-
Charter/Headboat for Coastal Pelagics	14	-
Charter/Headboat for Reef Fish	15	-
Swordfish	1	-
Shark	6	-
Rock Shrimp	16	-
Federal Dealers		

Because there are so many zip codes included in large urban areas, and some of those may be closer to other fishing communities the number of permits within all the zipcodes within Tampa were not tabulated. Some 58 vessels claim Tampa as homeport. While slightly more than half of those vessels hold reef fish permits, only 9 have red snapper class 2 permits. Fifteen vessels hold reef fish charter permits and 14 have charter permits for coastal pelagics. There are 15 vessels with shrimp permits and 16 with rock shrimp permits.

Table D.89 Gear Type by Homeport and Zip code in Tampa, Florida for 2002 (Source: NMFS 2002)

Gear Type	Homeport	Zip code
Shrimp Gear	16	-
Fish Trap Gear	1	-
Gill Net Gear	1	-
Reef Fish Bandit	14	-
Handline/Troll	10	-
Rod & Reel	33	-
Surface Longline	2	-
Bottom Longline	8	-
Lobster Trap	1	-
Diver	16	-
Other	1	-

Table D.90 Total Other Employment and Employment in Fishing Related Industry for Tampa, Florida (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	Number Employed
Total Other Employment		77537
Fishing	114100	35
Seafood Canning	311711	0
Seafood Processing	311712	7
Boat Building	336612	750
Fish and Seafoods	422460	335
Fish and Seafood Markets	445220	3
Marinas	713930	0
Total Fishing Employment		1130

Table D.90 shows considerable employment in the fishing sector with 1130 people employed altogether. Most of that employment is in boatbuilding with 750. The next largest employment sector was fish and seafood with 350.

Vulnerability Index Score

The Services sector was the primary growth component for Hillsborough County. Tampa showed growth in the Services sector from 24.3% in 1980 to 42.4% in 2000. The county had a positive industrial mix with most increases due to the construction sector and the county had a positive competitive share. Tampa poverty rate was 17.6% for 2000 compared to 12.3% for Hillsborough County. The average wage was lower than the county average in 2000. The sum of the index score for Tampa is a positive 1.

National growth component	1
Industrial mix	1
Competitive share	1
Poverty component	-1
Average wage/salary component	-1
Total	1

2.24 Cortez, Florida (34215)

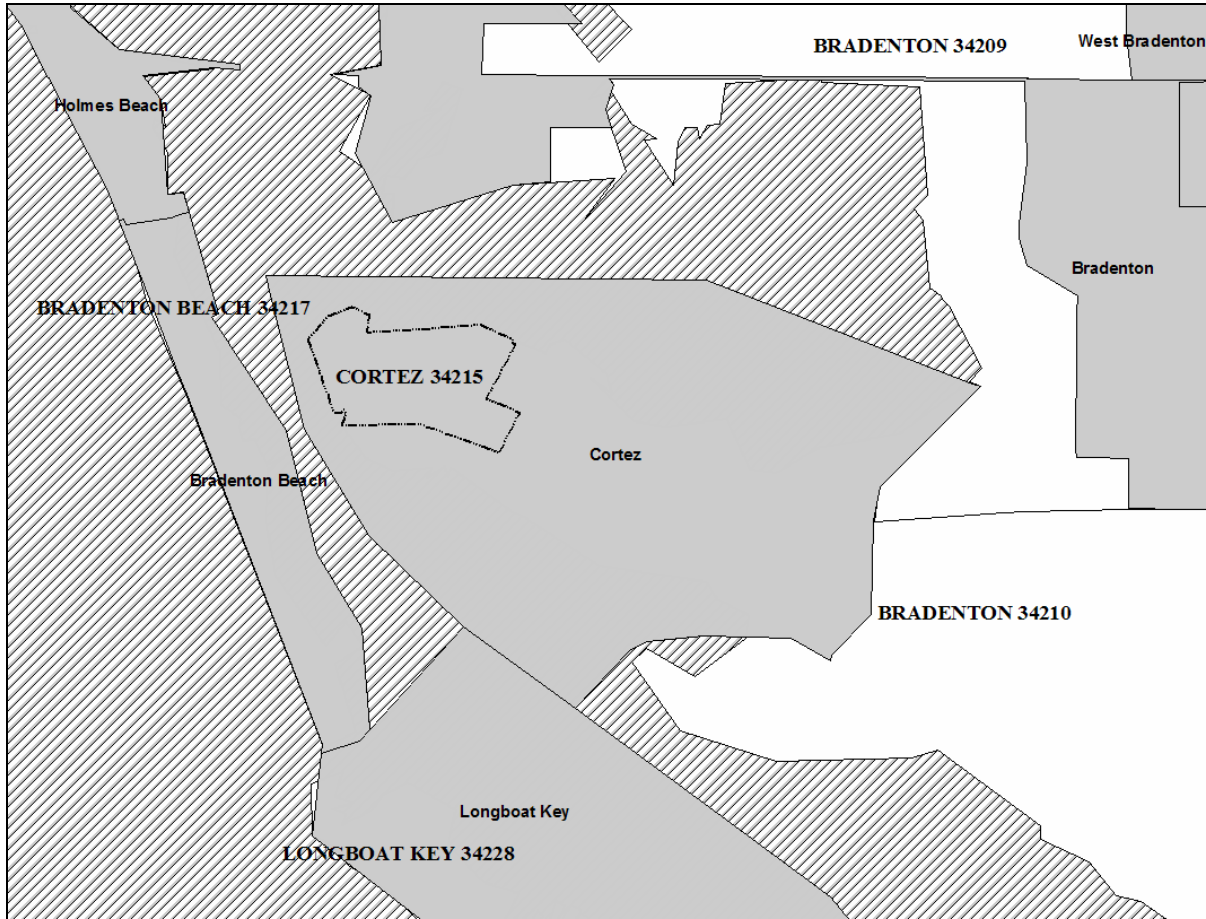


Figure D.33. Cortez, Florida Zip code and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

Cortez sits at the northern end of Sarasota Bay, just east of Bradenton Beach and west of Bradenton in Manatee County. The Cortez CDP boundary is larger than the zip code area (Figure D.33).

Table D.91. Federal Permit Type by Homeport and Zip code in Cortez, Florida for 2002

Type of Permit	Homeport	Zip code
Shrimp	2	2
Commercial King Mackerel	3	6
Commercial Spanish Mackerel	10	8
Reef Fish	21	18
Red Snapper License Class 1	0	0
Red Snapper License Class 2	14	14
Commercial Spiny Lobster	0	0
Charter/Head boat for Coastal Pelagics	7	2
Charter/Head boat for Reef Fish	7	2
Swordfish	1	2
Shark	3	9
Rock Shrimp	0	0
Federal Dealers		1

There are 37 vessels that homeport in Cortez. Twenty-one of those vessels have reef fish permits and 14 of those have red snapper class 2 permits. Ten vessels have Spanish mackerel permits and 3 have king mackerel. There are three vessels with shark permits and one vessel with a swordfish permit. In addition, 7 vessels have charter permits for either reef fish or coastal pelagics.

Table D.92. Gear Type by Homeport and Zip code in Cortez, Florida for 2002 (Source: NMFS 2002)

Gear Type	Homepor t	Zip code
Shrimp Gear	3	2
Fish Trap Gear	2	2
Gill Net Gear	8	7
Reef Fish Bandit	3	3
Handline/Troll	1	1
Rod & Reel	6	6
Surface Longline	2	2
Bottom Longline	2	2
Lobster Trap	0	0
Diver	0	0
Other	4	2

The gear most often listed is gill net gear with rod & reel next with 6 vessels noting that type of gear as shown in Table D.92. Three vessels have shrimp gear and 2 have surface longline and 2 have bottom longline gear.

Cortez has almost 19% of employment in the fishing sector as 35 are employed in fish and seafood and 15 are listed as employed in fishing (Table D.93) Another seven are employed in fish and seafood markets and 3 in marinas.

Table D.93. Total Other Employment and Employment in Fishing Related Industry for Cortez, Florida (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	Number Employed
Total Other Employment		267
Fishing	114100	15
Seafood Canning	311711	0
Seafood Processing	311712	0
Boat Building	336612	0
Fish and Seafood	422460	35
Fish and Seafood Markets	445220	7
Marinas	713930	3
Total Fishing Employment		60

Vulnerability Index Score

The Retail sector was the primary growth component for Manatee County. Cortez showed no change in the Wholesale/Retail sector from 25.5% in 1990 to 25.2% in 2000. The county had a positive industrial mix with most increases due to the construction sector and the county had a positive competitive share. Cortez poverty rate was 9.3% for 2000 compared to 9.9% for Manatee County. The average wage was lower than the county average in 2000. The sum of the index score for Cortez is a positive 1.

National growth component	0
Industrial mix	1
Competitive share	1
Poverty component	0
Average wage/salary component	-1
Total	1

2.25 Matlacha (33993)

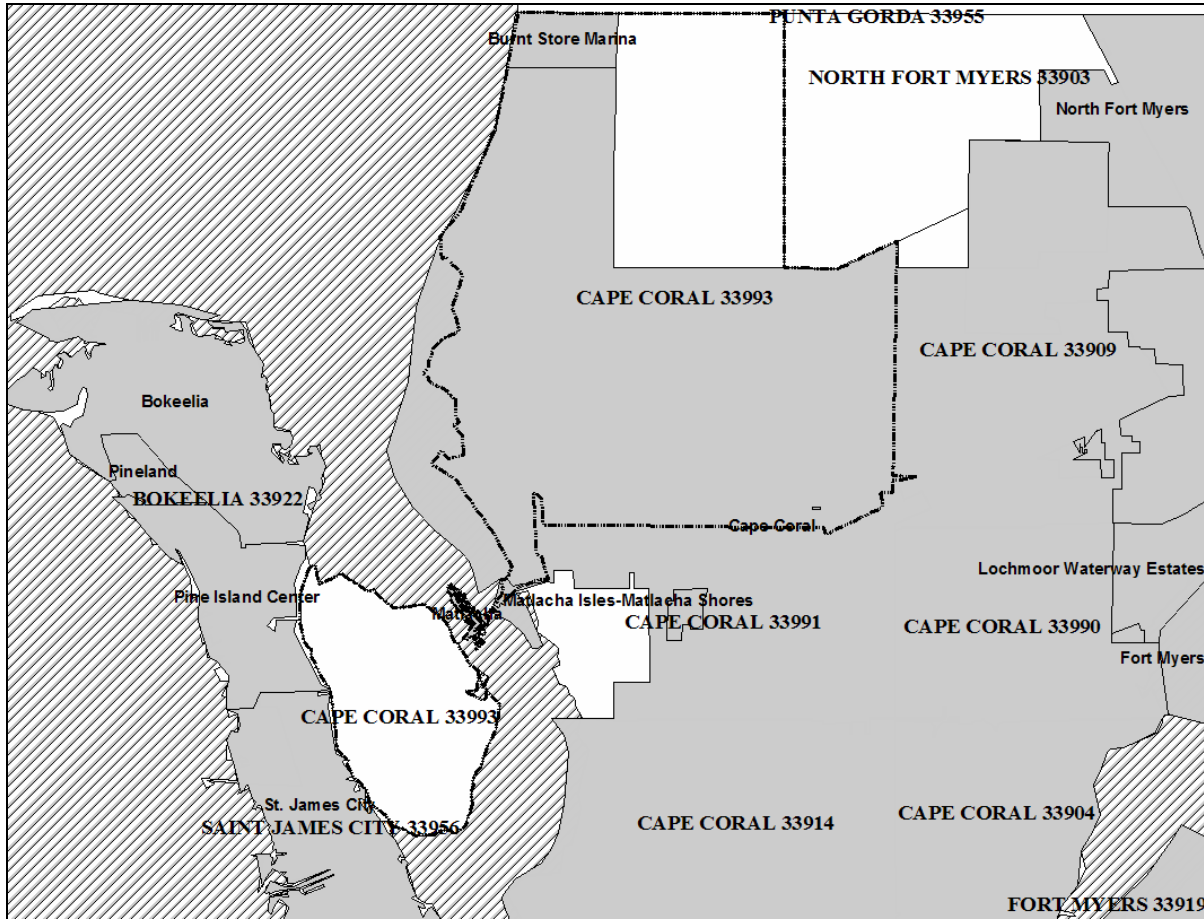


Figure D.34. Matlacha, Florida Zip code and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

Matlacha sits between Cape Coral and Bokeelia in Charlotte County. The Matlacha CDP is relatively small compared to the zip code area in which it is located. The zip code area includes the CDP of Matlacha Isles-Matlacha Shores.

Table D.94. Federal Permit Type by Homeport and Zip code in Matlacha for 2002

Type of Permit	Homeport	Zip code
Shrimp	2	2
Commercial King Mackerel	0	0
Commercial Spanish Mackerel	1	0
Reef Fish	3	1
Red Snapper License Class 1	0	0
Red Snapper License Class 2	0	0
Commercial Spiny Lobster	1	1
Charter/Headboat for Coastal Pelagics	0	0
Charter/Headboat for Reef Fish	0	0
Swordfish	0	0
Shark	0	0
Rock Shrimp	0	0
Federal Dealers		0

Table D.94 shows three vessels with federal permits which have listed Matlacha as homeport. Two of those vessels have shrimp permits and three have a reef fish permit and one with a spiny lobster permit. There may be other vessels which fish out of Matlacha that have not listed it as their home port.

Table D.95. Gear Type by Homeport and Zip code in Matlacha for 2002 (Source: NMFS 2002)

Gear Type	Homeport	Zip code
Shrimp Gear	0	0
Fish Trap Gear	0	0
Gill Net Gear	0	0
Reef Fish Bandit	0	0
Handline/Troll	0	0
Rod & Reel	0	0
Surface Longline	0	0
Bottom Longline	0	0
Lobster Trap	0	0
Diver	0	0
Other	0	0

Table D.96. Total Other Employment and Employment in Fishing Related Industry for Matlacha (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	Number Employed
Total Other Employment		237
Fishing	114100	0
Seafood Canning	311711	0
Seafood Processing	311712	0
Boat Building	336612	0
Fish and Seafoods	422460	13
Fish and Seafood Markets	445220	0
Marinas	713930	3
Total Fishing Employment		16

Vulnerability Index Score

Matlacha is not a census designated place and therefore an index score cannot be compiled without census data at that level.

2.26 Bokeelia (33922)



Figure D.35. Bokeelia, Florida Zip code and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

Bokeelia is located at the northern end of Pine Island in Charlotte County. The zip code boundary includes the CDPs of Bokeelia, Pineland, Pine Island Center and St. James City.

Table D.97. Federal Permit Type by Homeport and Zip code in Bokeelia, Florida for 2002

Type of Permit	Homeport	Zip code
Shrimp	2	2
Commercial King Mackerel	5	6
Commercial Spanish Mackerel	8	12
Reef Fish	8	7
Red Snapper License Class 1	0	0
Red Snapper License Class 2	2	0
Commercial Spiny Lobster	1	1
Charter/Headboat for Coastal Pelagics	1	0
Charter/Headboat for Reef Fish	2	2
Swordfish	0	0
Shark	0	4
Rock Shrimp	1	2
Federal Dealers		

There are 16 vessels that list Bokeelia as homeport. Eight of those vessels have either a reef fish permit or a Spanish mackerel. There are 5 of those vessels with a king mackerel permit and 4 in the zip code area have shark. There is one vessel home ported there that has a rock shrimp permit and another in the zip code area.

Table D.98. Gear Type by Homeport and Zip code in Bokeelia, Florida for 2002 (Source: NMFS 2002)

Gear Type	Homeport	Zip code
Shrimp Gear	7	12
Fish Trap Gear	0	0
Gill Net Gear	8	12
Reef Fish Bandit	7	8
Handline/Troll	6	10
Rod & Reel	9	13
Surface Longline	1	1
Bottom Longline	2	3
Lobster Trap	0	0
Diver	6	5
Other	1	3

Table D.99. Total Other Employment and Employment in Fishing Related Industry for Bokeelia, Florida (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	Number Employed
Total Other Employment		443
Fishing	114100	0
Seafood Canning	311711	0
Seafood Processing	311712	0
Boat Building	336612	0
Fish and Seafoods	422460	3
Fish and Seafood Markets	445220	0
Marinas	713930	18
Total Fishing Employment		21

Vulnerability Index Score

Bokeelia is not a census designated place and therefore an index score cannot be compiled without census data at that level.

2.27 Ft. Myers Beach, Florida (33931, 33932)

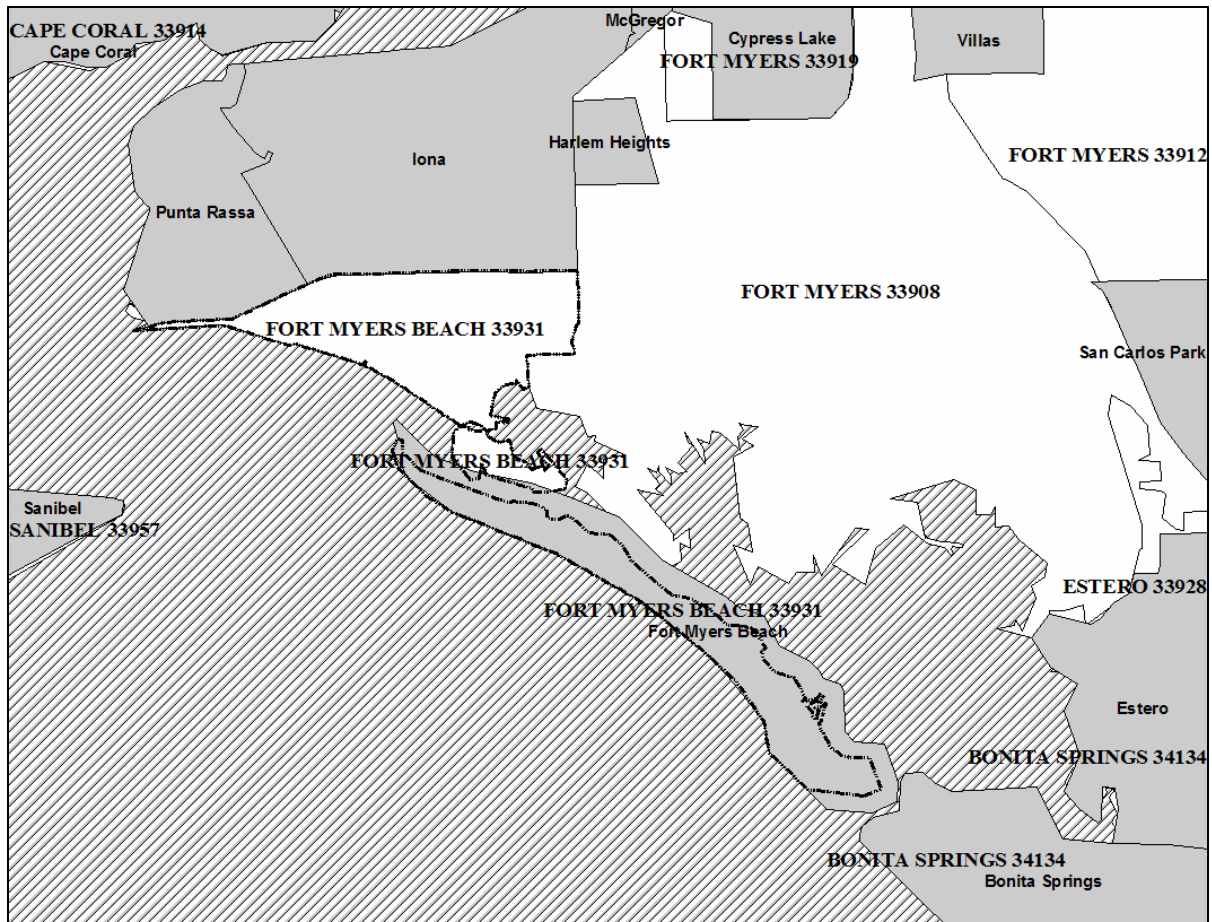


Figure D.36. Ft. Myers Beach, Florida Zip code and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

Ft. Myers Beach is located in Lee County just southwest of Ft. Myers and directly east of Sanibel Island. The zip code boundary encloses all of Estero Island but also includes a portion of the shore side to the north of the island (Figure D.36).

Table D.100. Federal Permit Type by Homeport and Zip code in Ft. Myers Beach, Florida for 2002

Type of Permit	Homeport	Zip code
Shrimp	48	48
Commercial King Mackerel	5	5
Commercial Spanish Mackerel	1	3
Reef Fish	11	6
Red Snapper License Class 1	0	0
Red Snapper License Class 2	5	5
Commercial Spiny Lobster	17	20
Charter/Head boat for Coastal Pelagics	16	5
Charter/Head boat for Reef Fish	15	4
Swordfish	1	1
Shark	2	2
Rock Shrimp	6	6
Federal Dealers		1

There are at least 48 vessels which claim Ft. Myers Beach as home port. Table D.100 indicates that at least that many hold shrimp permits and 17 vessels holding spiny lobster permits in the Ft. Myer's home port area. There are 3 more vessels in the zip code area with spiny lobster permits. The next most often listed are charter permits for reef fish (15) and coastal peggagics (16). There are at least 11 vessels permitted for reef fish. There are 6 vessels with rock shrimp permits in the homeport area.

Table D.101. Gear Type by Homeport and Zip code in Ft. Meyers Beach, Florida for 2002 (Source: NMFS 2002)

Gear Type	Homeport	Zip code
Shrimp Gear	19	20
Fish Trap Gear	0	0
Gill Net Gear	0	0
Reef Fish Bandit	6	5
Handline/Troll	14	16
Rod & Reel	17	18
Surface Longline	0	0
Bottom Longline	1	0
Lobster Trap	0	0
Diver	0	0
Other	1	0

As is obvious from the permit type, the most prevalent gear type of the vessels home ported in Ft. Myers Beach is shrimp with 19 listing shrimp gear (Table D.101). This does not include the vessels which recently received shrimp permits. Seventeen vessels list rod & reel gear and 14 have handline/troll gear.

Table D.102. Total Other Employment and Employment in Fishing Related Industry for Ft. Meyers Beach, Florida (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	2.27.1.1.1 Number Employed
Total Other Employment		4038
Fishing	114100	10
Seafood Canning	311711	0
Seafood Processing	311712	30
Boat Building	336612	0
Fish and Seafood	422460	6
Fish and Seafood Markets	445220	0
Marinas	713930	21
Total Fishing Employment		67

Most of the fishing employment for Ft. Myers is in the seafood processing sector, but there are 21 employed in the marinas section (Table D.102). Ten individuals are listed under fishing and 6 in fish and seafood for a total of 67.

Vulnerability Index Score

The Services sector was the primary growth component for Lee County. Ft. Myers Beach showed growth in the Services sector from 25.1% in 1980 to 31.8% in 2000. The county had a positive industrial mix with most increases due to the construction sector and the county had a positive competitive share. Ft. Myers Beach poverty rate was 7.1% for 2000 compared to 9.5% for Lee County. The average wage was higher than the county average in 2000. The sum of the index score for Ft. Myers Beach is positive 5.

National growth component	1
Industrial mix	1
Competitive share	1
Poverty component	1
Average wage/salary component	1
Total	5

2.28 Naples, Florida (34102-05, 34108-10, 34112-14, 34116, 34117, 34119, 34120)

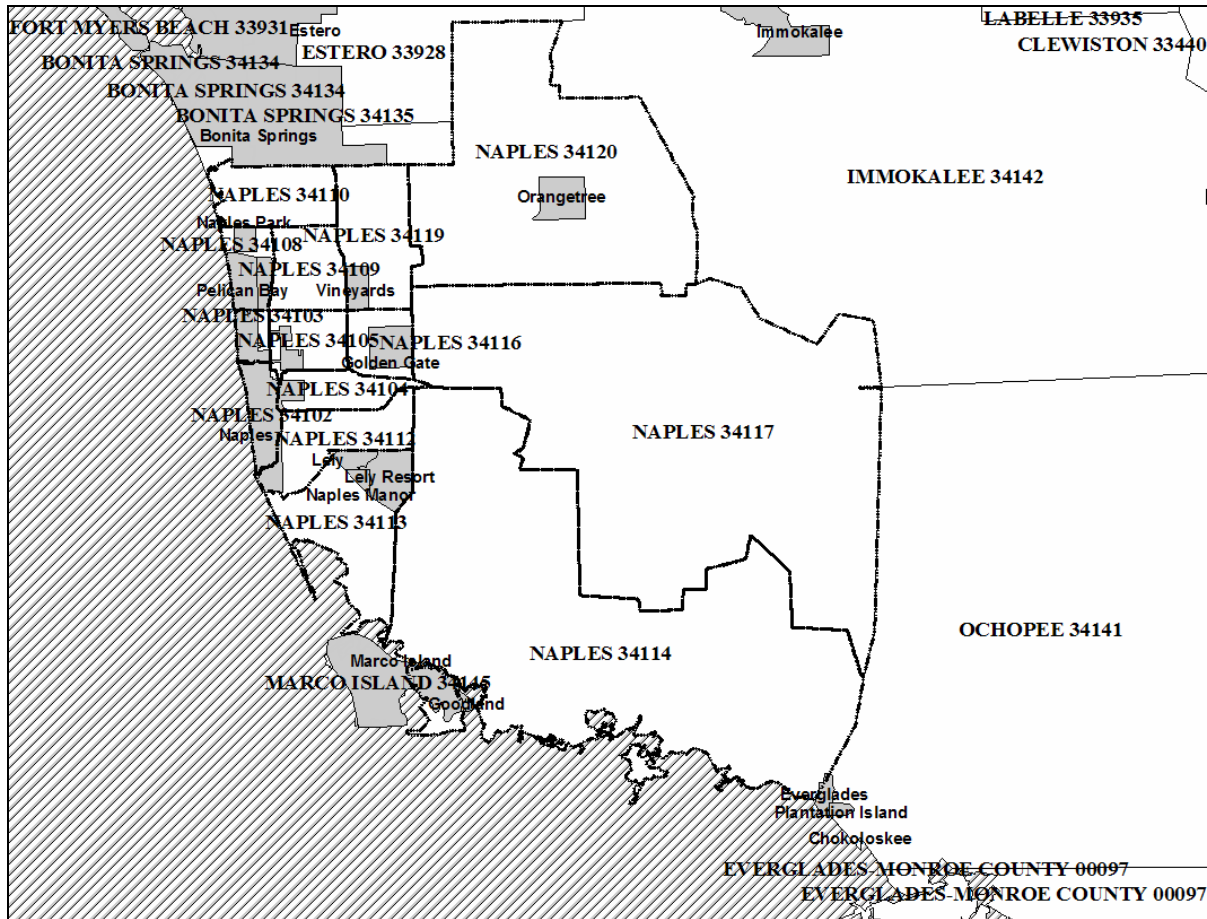


Figure D.37. Naples, Florida Zip code and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

Naples is the seat of county government for Collier County. The zip code boundary for Naples includes several other CDPs and extends far to the east of the coastline (Figure D.37).

Table D.103. Federal Permit Type by Homeport and Zip code in Naples, Florida for 2002

Type of Permit	Homeport	Zip code
Shrimp	2	2
Commercial King Mackerel	13	11
Commercial Spanish Mackerel	14	14
Reef Fish	22	16
Red Snapper License Class 1	0	0
Red Snapper License Class 2	4	5
Commercial Spiny Lobster	6	6
Charter/Head boat for Coastal Pelagics	52	14
Charter/Head boat for Reef Fish	50	13
Swordfish	1	1
Shark	5	3
Rock Shrimp	0	0
Federal Dealers		1

According to Table D.103 many of the 74 vessels home ported in Naples have reef fish (22), Spanish mackerel (14) or king mackerel (13) permits. There are 50 vessels with either coastal pelagic or reef fish charter permits and 5 with shark permits.

Table D.104. Gear Type by Homeport and Zip code in Naples, Florida for 2002
(Source: NMFS 2002)

Gear Type	Homeport	Zip code
Shrimp Gear	1	1
Fish Trap Gear	5	5
Gill Net Gear	3	3
Reef Fish Bandit	14	15
Handline/Troll	11	11
Rod & Reel	15	16
Surface Longline	2	2
Bottom Longline	4	3
Lobster Trap	0	0
Diver	6	4
Other	4	3

The gear types that are most often listed in the Naples homeport area are rod & reel with 15, reef fish bandit with 14 and 11 vessels with handline/troll gear (Table D.104).

Table D.105. Total Other Employment and Employment in Fishing Related Industry for Naples, Florida (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	2.28.1.1.1 Number Employed
Total Other Employment		65728
Fishing	114100	6
Seafood Canning	311711	0
Seafood Processing	311712	3
Boat Building	336612	22
Fish and Seafood	422460	10
Fish and Seafood Markets	445220	9
Marinas	713930	98
Total Fishing Employment		148

Table D.105 indicates that most of Naples' fishing related employment is in the marinas sector. There is also 22 persons employed in boat building and 10 in fish and seafood with another 9 in fish and seafood markets. Six persons are listed as employed in fishing.

Vulnerability Index Score

The Services sector was the primary growth component for Collier County. Naples showed growth in the Services sector from 22.4% in 1980 to 40.2% in 2000. The county had a positive industrial mix with most increases due to the construction sector and the county had a positive competitive share. Naples poverty rate was 5.8% for 2000 compared to 10.1% for Collier County. The average wage was higher than the county average in 2000. The sum of the index score for Naples is a positive 5.

National growth component	1
Industrial mix	1
Competitive share	1
Poverty component	1
Average wage/salary component	1
Total	5

2.29 Marco Island/Goodland, Florida (34145, 34114)

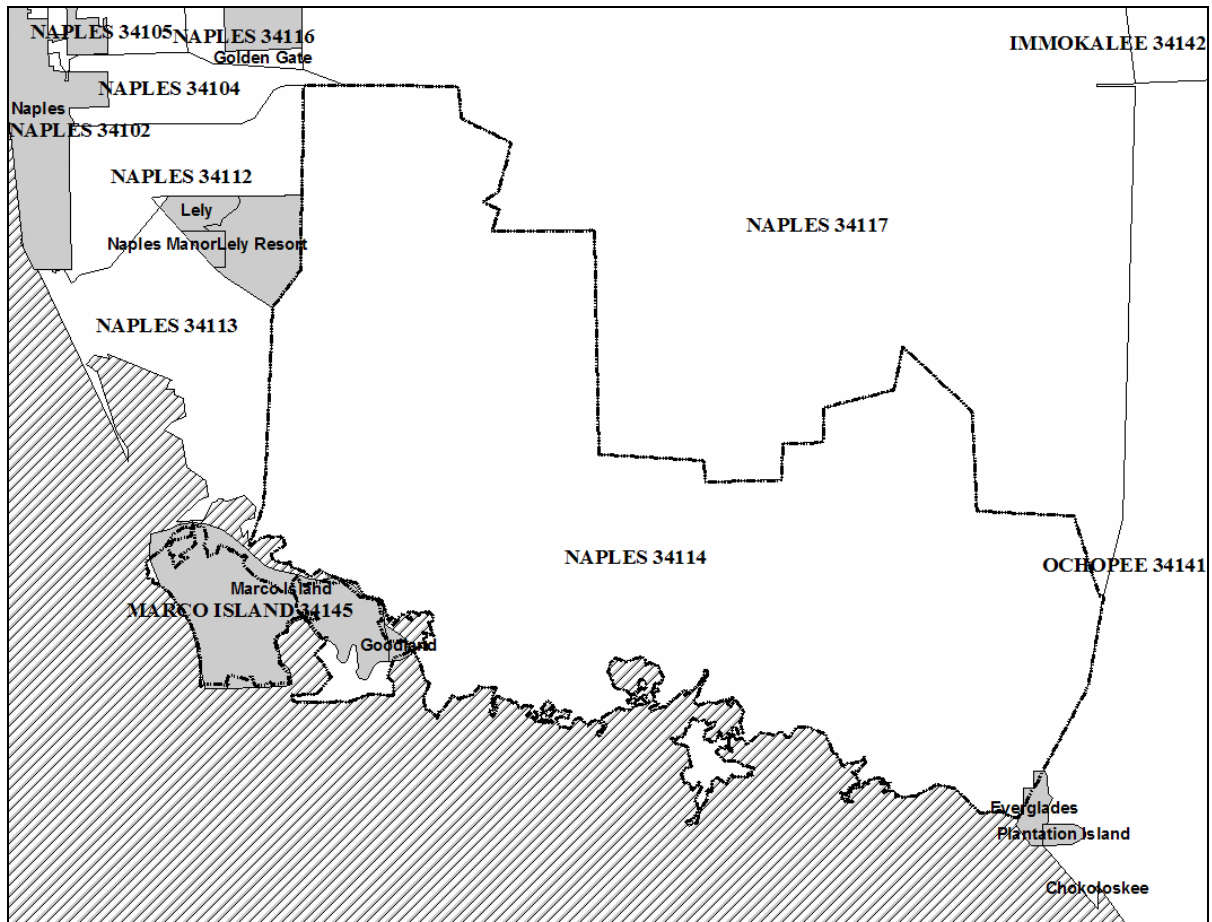


Figure D.38. Marco Island, Florida Zip code and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

Marco Island/Goodland are located south of Naples and west northwest of Everglades City in Collier County. The CDP boundary for Marco Island is slightly larger than the zip code boundary and extends into the Goodland zip code boundary (Fig. D.38).

Table D.106. Federal Permit Type by Homeport and Zip code in Goodland (Marco Island), Florida for 2002

Type of Permit	Homeport	Zip code
Shrimp	0	0
Commercial King Mackerel	4	3
Commercial Spanish Mackerel	6	3
Reef Fish	5	3
Red Snapper License Class 1	0	0
Red Snapper License Class 2	1	0
Commercial Spiny Lobster	3	3
Charter/Head boat for Coastal Pelagics	26	2
Charter/Head boat for Reef Fish	25	2
Swordfish	2	0
Shark	1	3
Rock Shrimp	0	0
Federal Dealers		0

Table D.106 lists 6 vessels with Spanish mackerel permits for vessels home ported at Goodland/Marco Island and 5 with reef fish out of the 34 total. Twenty-five vessels report having either a charter permit for coastal pelagics or reef fish charter permit. There are 4 vessels with king mackerel and 3 with spiny lobster.

Fish trap gear is the gear type reported by vessels more than other with 5 vessels reporting (Table D.107). Reef fish bandit gear is next with 4 vessels in addition to rod & reel with 4.

Table D.107. Gear Type by Homeport and Zip code in Goodland (Marco Island), Florida for 2002 (Source: NMFS 2002)

Gear Type	Homeport	Zip code
Shrimp Gear	0	0
Fish Trap Gear	5	3
Gill Net Gear	3	2
Reef Fish Bandit	4	0
Handline/Troll	3	0
Rod & Reel	4	0
Surface Longline	0	0
Bottom Longline	1	0
Lobster Trap	3	3
Diver	0	0
Other	6	3

Table D.108. Total Other Employment and Employment in Fishing Related Industry for Goodland (Marco Island), Florida (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	2.29.1.1.1 Number Employed
Total Other Employment		4623
Fishing	114100	0
Seafood Canning	311711	0
Seafood Processing	311712	0
Boat Building	336612	0
Fish and Seafood	422460	0
Fish and Seafood Markets	445220	0
Marinas	713930	108
Total Fishing Employment		108

All of the employment in the fishing sector is in the marinas sector with 108 listed as being employed in that sector. A total of 4731 employed is reported in Table D.108.

Vulnerability Index Score

The Services sector was the primary growth component for Collier County. Marco Island showed growth in the Services sector from 25.8% in 1980 to 33.3% in 2000. The county had a positive industrial mix with most increases due to the construction sector and the county had a positive competitive share. Marco Island poverty rate was 5.4% for 2000 compared to 10.1% for Collier County. The average wage was higher than the county average in 2000. The sum of the index score for Marco Island is positive 5.

National growth component	1
Industrial mix	1
Competitive share	1
Poverty component	1
Average wage/salary component	1
Total	5

2.30 Everglades City, Florida (34139)

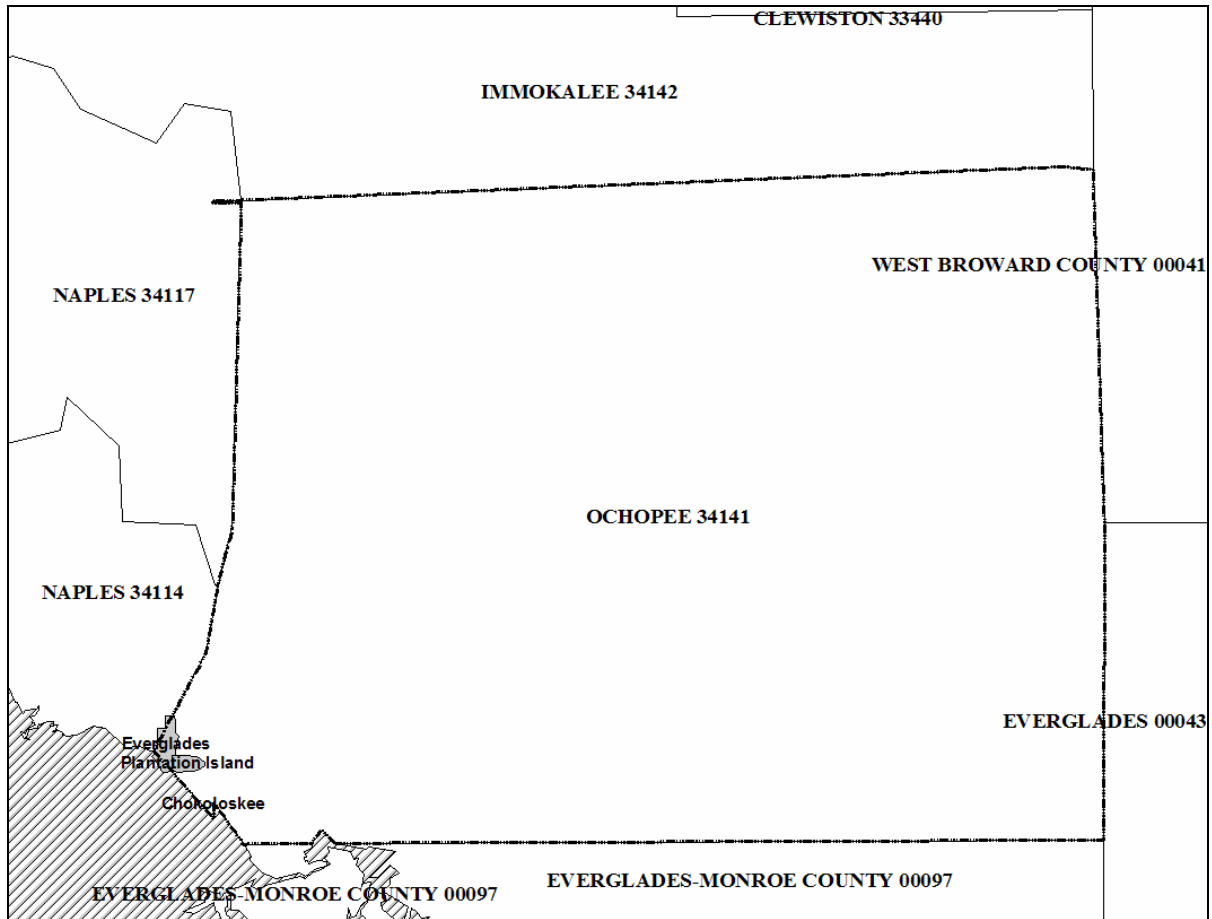


Figure D.39. Everglades City, Florida Zip code and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

The Everglades City CDP is relatively small compared to the zip code boundary as seen in Figure D.39. Chokoloskee and Plantation Island are two other CDPs that are included in the Everglades zip code area which is in the southern most part of Collier County.

Table D.109. Federal Permit Type by Homeport and Zip code in Everglades City, Florida for 2002

Type of Permit	Homeport	Zip code
Shrimp	0	0
Commercial King Mackerel	1	1
Commercial Spanish Mackerel	6	3
Reef Fish	13	2
Red Snapper License Class 1	0	0
Red Snapper License Class 2	1	0
Commercial Spiny Lobster	1	3
Charter/Head boat for Coastal Pelagics	1	1
Charter/Head boat for Reef Fish	2	1
Swordfish	1	0
Shark	1	0
Rock Shrimp	1	0
Federal Dealers		0

There are 10 vessels which call Everglades City home port and 7 vessels which call Chokoloskee home port. So, a total of 17 vessels within the zip code area with federal permits and 13 of those have reef fish pemrits. Two vessels report reef fish charter permits. Six vessels have Spanish mackerel permits according to Table D.109 and 1 vessel reporting king mackerel. A rock shrimp, shark and swordfish permit is reported by one vessel each.

Table D.110. Gear Type by Homeport and Zip code in Everglades City, Florida for 2002 (Source: NMFS 2002)

Gear Type	Homeport	Zip code
Shrimp Gear	0	0
Fish Trap Gear	0	0
Gill Net Gear	1	0
Reef Fish Bandit	0	1
Handline/Troll	0	1
Rod & Reel	1	1
Surface Longline	0	0
Bottom Longline	0	1
Lobster Trap	0	0
Diver	0	0
Other	0	0

With few vessels reporting it as a home port the gear types reported are also few in number with all the following gear types being reported by one vessel each: gill net, rod & reel, reef fish bandit, handline/troll and bottom longline.

Table D.111. Total Other Employment and Employment in Fishing Related Industry for Everglades City, Florida (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	Number Employed
Total Other Employment		220
Fishing	114100	6
Seafood Canning	311711	0
Seafood Processing	311712	0
Boat Building	336612	0
Fish and Seafood	422460	3
Fish and Seafood Markets	445220	0
Marinas	713930	0
Total Fishing Employment		9

Most of the employment reported in Table D.111 is in the fishing sector with 6 listed there. Three more are listed in the fish and seafood sector with a total of 9 all together.

Vulnerability Index Score

The Services sector was the primary growth component for Collier County. Everglades City showed no growth in the Services sector from 19.7% in 1980 to 36.5% in 2000. The county had a positive industrial mix with most increases due to the construction sector and the county had a positive competitive share. Everglades City poverty rate was 6.0% for 2000 compared to 10.1% for Collier County. The average wage was lower than the county average in 2000. The sum of the index score for Everglades City is a positive 4.

National growth component	1
Industrial mix	1
Competitive share	1
Poverty component	1
Average wage/salary component	-1
Total	4

2.31 Key Largo, Florida (33037)

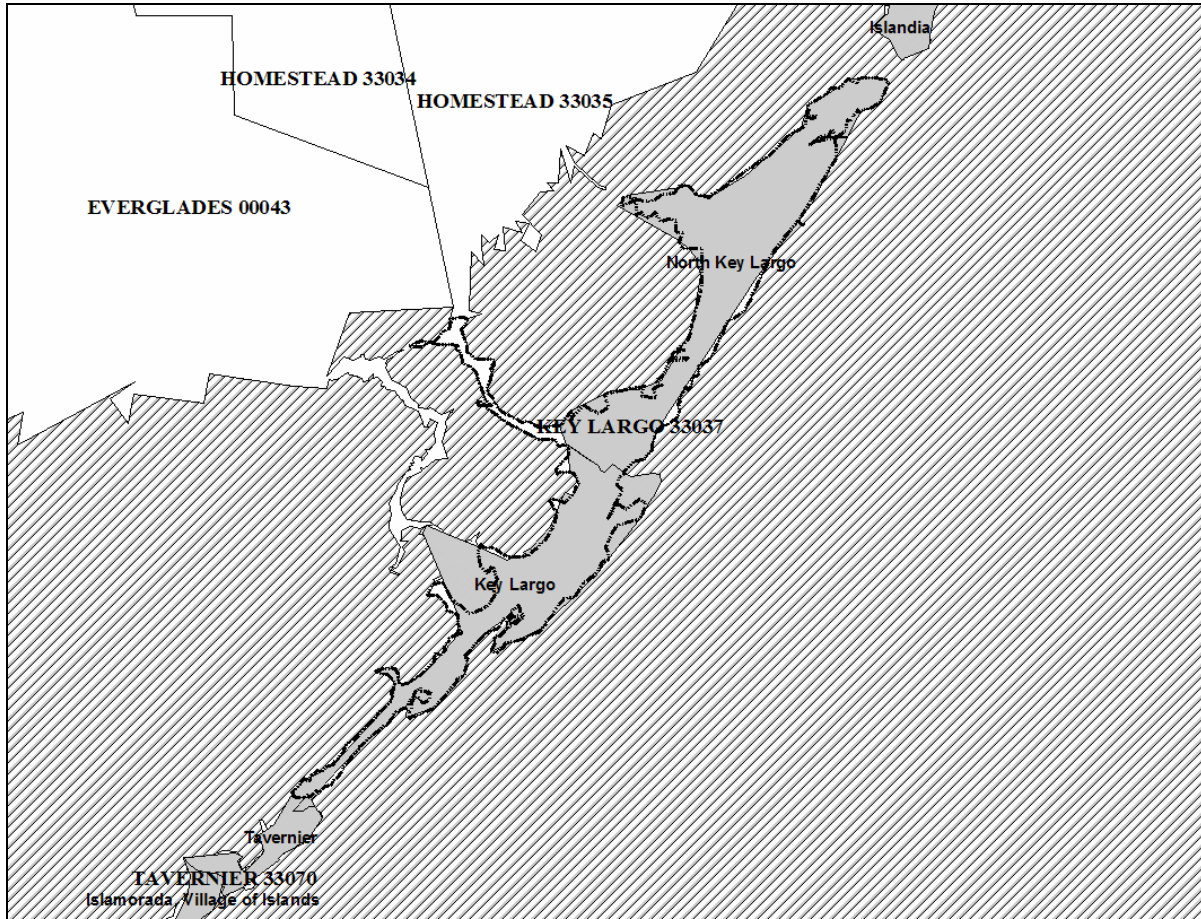


Figure D.40. Key Largo, Florida Zip code and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

Key Largo is the northern most key of the Florida Keys in Monroe County. The Key Largo CDP and North Key Largo CDP are included within the zip code boundary

Table D.112. Federal Permit Type by Homeport and Zip code in Key Largo, Florida for 2002

Type of Permit	Homeport	Zip code
Shrimp	0	0
Commercial King Mackerel	20	17
Commercial Spanish Mackerel	18	20
Reef Fish	3	2
Red Snapper License Class 1	0	0
Red Snapper License Class 2	0	0
Commercial Spiny Lobster	6	6
Charter/Head boat for Coastal Pelagics	20	16
Charter/Head boat for Reef Fish	2	2
Swordfish	1	11
Shark	6	14
Rock Shrimp	0	1
Federal Dealers		1

There are 57 federally permitted vessels which list their home port in Key Largo. Twenty of those vessels hold king mackerel permits with 18 holding Spanish mackerel. There are 6 with spiny lobster permits as well as 20 with coastal pelagic charter permits, while there are only 2 vessels which list a charter permit for reef fish. Six vessels hold shark permits with 1 listing swordfish.

Table D.113. Gear Type by Homeport and Zip code in Key Largo, Florida for 2002
(Source: NMFS 2002)

Gear Type	Homeport	Zip code
Shrimp Gear	0	0
Fish Trap Gear	1	1
Gill Net Gear	0	0
Reef Fish Bandit	26	23
Handline/Troll	24	22
Rod & Reel	33	29
Surface Longline	2	3
Bottom Longline	5	4
Lobster Trap	16	14
Diver	9	10
Other	6	6

Rod & reel gear is the most frequently reported gear type (33) with reef fish bandit gear next with 26 vessels and 24 report having handline/troll gear on board (Table D.113). Lobster trap gear is reported by 16 vessels and 9 report dive gear.

Table D.114. Total Other Employment and Employment in Fishing Related Industry for Key Largo, Florida (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	2.31.1.1.1 Number Employed
Total Other Employment		
Fishing	114100	30
Seafood Canning	311711	0
Seafood Processing	311712	0
Boat Building	336612	6
Fish and Seafood	422460	0
Fish and Seafood Markets	445220	0
Marinas	713930	37
Total Fishing Employment		73

Employment for Key Largo as indicated in Table D.1114 shows 30 in fishing and 6 in boat building. There are another 37 reported in the marinas sector with a total of 73 in the overall fishing sector.

Vulnerability Index Score

The Services sector was the primary growth component for Monroe County. Key Largo showed growth in the Services sector from 18.5% in 1980 to 33.0% in 2000. The county had a positive industrial mix with most increases due to the construction sector and the county had a positive competitive share. Key Largo poverty rate was 8.3% for 2000 compared to 10.0% for Monroe County. The average wage was the same as the county average in 2000. The sum of the index score for Key Largo is a positive 4.

National growth component	1
Industrial mix	1
Competitive share	1
Poverty component	1
Average wage/salary component	0
Total	4

2.32 Islamorada, Florida (33036)

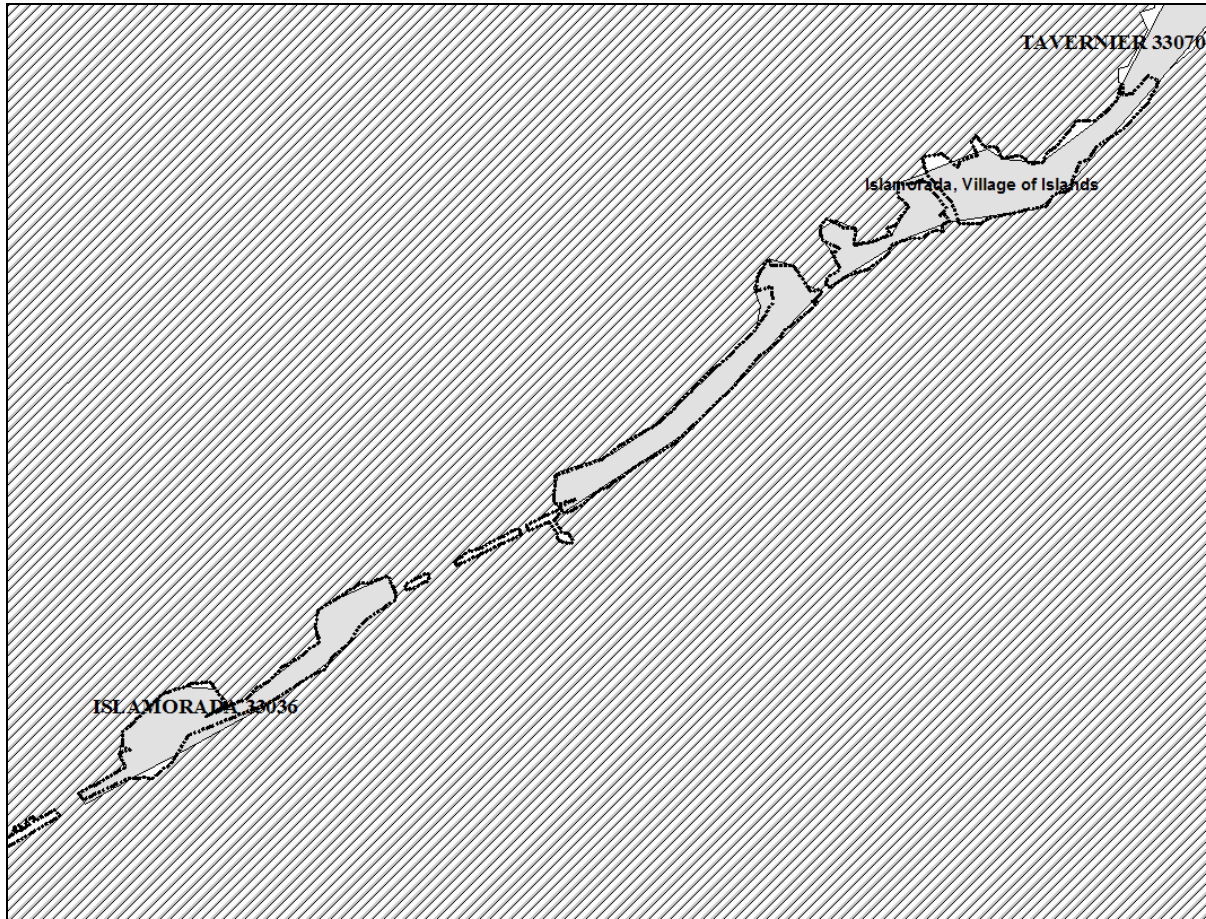


Figure D.41. Islamorada, Florida Zip code and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

The Islamorada CDP and zip code boundary are concurrent as seen in Figure D.33. The community consists of several key islands between Tavernier and Marathon.

Table D.115. Federal Permit Type by Homeport and Zip code in Islamorada, Florida for 2002

Type of Permit	Homeport	Zip code
Shrimp	0	0
Commercial King Mackerel	18	18
Commercial Spanish Mackerel	12	19
Reef Fish	4	4
Red Snapper License Class 1	0	0
Red Snapper License Class 2	0	0
Commercial Spiny Lobster	10	4
Charter/Head boat for Coastal Pelagics	52	34
Charter/Head boat for Reef Fish	8	4
Swordfish	12	7
Shark	1	13
Rock Shrimp	0	0
Federal Dealers		1

Islamorada has a total of 83 vessels which home port there according to Federal permit data. In Table D.115 most vessels home ported in Islamorada have a coastal pelagic charter permit with 52 listing such permits. There are 18 king mackerel permits and 12 reporting Spanish mackerel permits. Ten vessels report having spiny lobster permits and 12 also report swordfish. Finally there are 15 vessels that have shark permits and only 4 report reef fish permits.

Table D.116. Gear Type by Homeport and Zip code in Islamorada, Florida for 2002
(Source: NMFS 2002)

Gear Type	Homeport	Zip code
Shrimp Gear	0	0
Fish Trap Gear	0	0
Gill Net Gear	0	0
Reef Fish Bandit	18	17
Handline/Troll	23	16
Rod & Reel	33	22
Surface Longline	0	0
Bottom Longline	6	3
Lobster Trap	14	10
Diver	7	5
Other	5	4

The gear type most frequently reported in Table D.116 is rod & reel with 33 vessels listing that gear type. Twenty-three vessels report handline/troll gear and 18 have listed reef fish bandit gear.

Table D.117. Total Other Employment and Employment in Fishing Related Industry for Islamorada, Florida (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	2.32.1.1.1 Number Employed
Total Other Employment		2638
Fishing	114100	3
Seafood Canning	311711	0
Seafood Processing	311712	0
Boat Building	336612	0
Fish and Seafood	422460	25
Fish and Seafood Markets	445220	0
Marinas	713930	23
Total Fishing Employment		51

Slightly over half of the fishing employment is in the fish and seafood sector with 25 persons reported in that sector according to Table D.117. Another 23 are listed as being in the marinas sector and 3 are listed as fishing for a total of 51.

Vulnerability Index Score

The Services sector was the primary growth component for Monroe County. Islamorada showed an increase in the Services sector from 29.3% in 1980 to 35.8% in 2000. The county had a positive industrial mix with most increases due to the construction sector and the county had a positive competitive share. Islamorada poverty rate was 6.8% for 2000 compared to 10.0% for Monroe County. The average wage was lower than the county average in 2000. The sum of the index score for Islamorada is a positive 4.

National growth component	1
Industrial mix	1
Competitive share	1
Poverty component	1
Average wage/salary component	-1
Total	4

2.33 Marathon, Florida (33050, 33051, 33052)

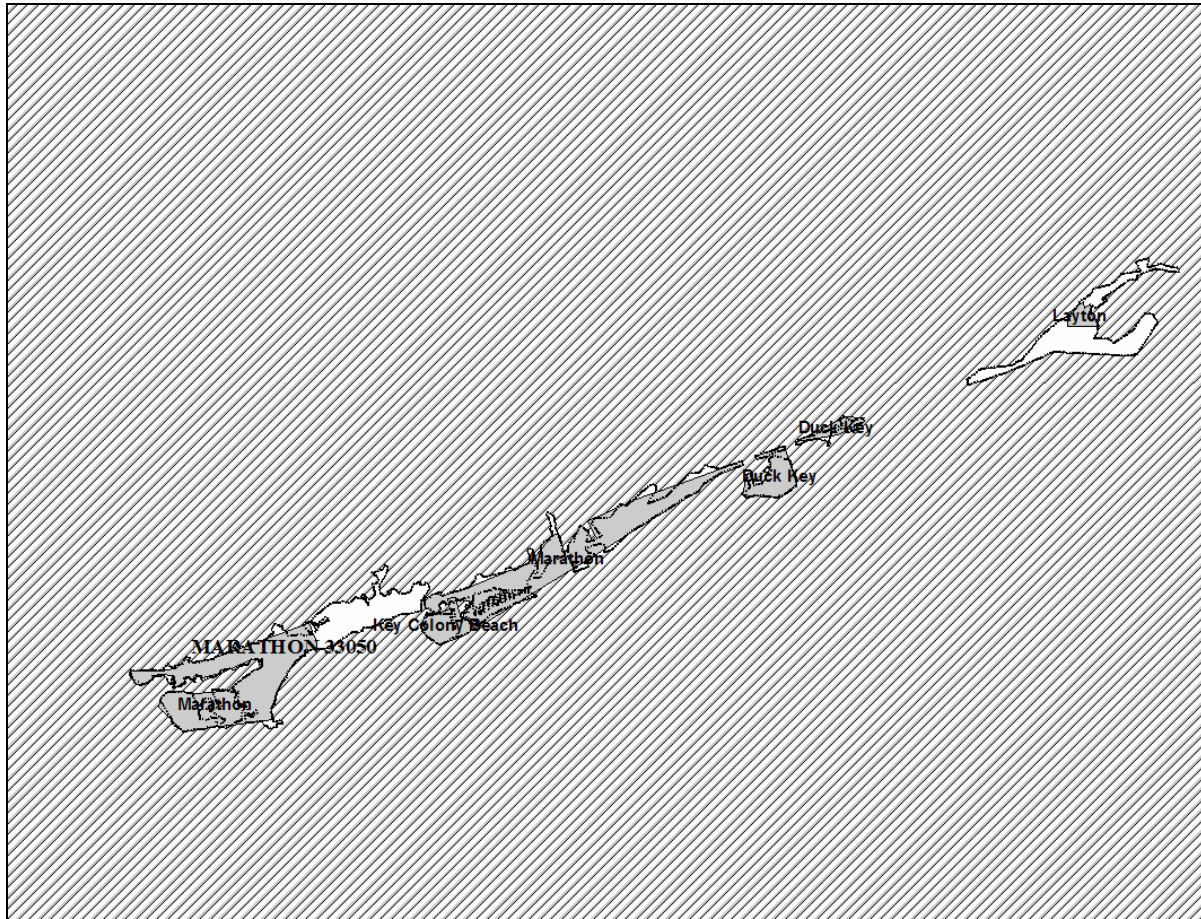


Figure D.42. Marathon, Florida Zip code and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

The Marathon zip code area includes the CDPs of Marathon, Duck Key, Key Colony Beach and Layton. The Keys community is south of Islamorada and northeast of Big Pine Key in Monroe County.

Table D.118. Federal Permit Type by Homeport and Zip code in Marathon, Florida for 2002

Type of Permit	Homeport	Zip code
Shrimp	0	0
Commercial King Mackerel	82	84
Commercial Spanish Mackerel	103	106
Reef Fish	36	52
Red Snapper License Class 1	0	0
Red Snapper License Class 2	5	5
Commercial Spiny Lobster	40	40
Charter/Head boat for Coastal Pelagics	52	34
Charter/Head boat for Reef Fish	45	25
Swordfish	4	18
Shark	7	7
Rock Shrimp	2	2
Federal Dealers		6

There are a total of 189 vessels which claim Marathon as home port. Over 100 of those vessels have Spanish mackerel permits and 82 have king mackerel permits (Table 118). forty vessels have spiny lobster permits and 36 have reef fish permits. There are only 5 vessels, that home port in Marathon and have red snapper class 2 permits. There are 52 and 45 vessels that report either a charter permit for coastal pelagics or reef fish respectively.

Table D.119. Gear Type by Homeport and Zip code in Marathon, Florida for 2002
(Source: NMFS 2002)

Gear Type	Homeport	Zip code
Shrimp Gear	4	3
Fish Trap Gear	2	0
Gill Net Gear	19	15
Reef Fish Bandit	24	26
Handline/Troll	92	92
Rod & Reel	110	109
Surface Longline	6	6
Bottom Longline	8	5
Lobster Trap	75	70
Diver	34	34
Other	43	42

Rod & reel gear is the most frequent gear type reported in Table D.119, Handline/troll gear is the next most frequent (92)with lobster trap gear following with 75 vessels reporting. There are 24 vessels which report bandit gear and 19 with gill net gear. Forty-three vessels report other gear being on board and 34 have dive gear.

Employment in the fishing sector is highest for the fish and seafood sector with 92. Another 47 are reported in the marinas sector and 39 in fishing. With 6 more in fish and seafood markets the total fishing employment for Marathon reported in Table D.120 is 184.

Table D.120. Total Other Employment and Employment in Fishing Related Industry for Marathon, Florida (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	Number Employed
Total Other Employment		5063
Fishing	114100	39
Seafood Canning	311711	0
Seafood Processing	311712	0
Boat Building	336612	0
Fish and Seafood	422460	92
Fish and Seafood Markets	445220	6
Marinas	713930	47
Total Fishing Employment		184

Vulnerability Index Score

The Services sector was the primary growth component for Monroe County. Marathon showed growth in the Services sector from 21.8% in 1980 to 31.9% in 2000. The county had a positive industrial mix with most increases due to the construction sector and the county had a positive competitive share. Marathon poverty rate was 13.9% for 2000 compared to 10.5% for Monroe County. The average wage was lower than the county average in 2000. The sum of the index score for Marathon is a positive 1.

National growth component	1
Industrial mix	1
Competitive share	1
Poverty component	-1
Average wage/salary component	-1
Total	1

2.34 Big Pine Key-Summerland Key, Florida (33042, 33043)



Figure D.43. Big Pine Key, Florida Zip code and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

The Big Pine Key zip code area primarily encloses the Big Pine Key CDP but also includes a few smaller islands as shown in Figure D.43 including Cudjoe Key. Big Pine Key is located just east of Summerland Key and is at the western end of the seven mile bridge from Marathon.

Table D.121 Federal Permit Type by Homeport and Zip code in Big Pine Key, Florida for 2002

Type of Permit	Homeport	Zip code
Shrimp	0	0
Commercial King Mackerel	48	48
Commercial Spanish Mackerel	32	38
Reef Fish	27	36
Red Snapper License Class 1	0	0
Red Snapper License Class 2	2	4
Commercial Spiny Lobster	14	19
Charter/Head boat for Coastal Pelagics	23	29
Charter/Head boat for Reef Fish	19	24
Swordfish	1	3
Shark	5	7
Rock Shrimp	1	1
Federal Dealers		0

Fifty-six vessels list Big Pine Key as home port 20 list Cudjoe Key and 30 list Summerland Key for a total of 106. Not a third of those vessels (32) have Spanish mackerel permits (Table D.121). Forty-eight vessels have king mackerel permits and 27 have reef fish permits. There are 14 vessels with spiny lobster permits. There are a few charter permits for vessels reporting this area as home port as 19 reef fish charter permits and 23 vessels with a coastal pelagic charter permit. There were 5 vessels with shark permits and 1 with swordfish.

Table D.122 Gear Type by Homeport and Zip code in Big Pine Key, Florida for 2002 (Source: NMFS 2002)

Gear Type	Homeport	Zip code
Shrimp Gear	1	1
Fish Trap Gear	0	0
Gill Net Gear	0	0
Reef Fish Bandit	15	17
Handline/Troll	34	40
Rod & Reel	42	48
Surface Longline	1	1
Bottom Longline	2	3
Lobster Trap	14	19
Diver	28	31
Other	16	16

The predominant gear type is rod & reel (42) according to Table D.122 with handline/troll gear close behind at 34 vessels with that gear type. There are 28 vessels which claim dive gear and 15 with bandit gear. Another 14 list lobster gear and 16 with other gear types.

Table D.123. Total Other Employment and Employment in Fishing Related Industry for Big Pine Key, Florida (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	Number Employed
Total Other Employment		1488
Fishing	114100	6
Seafood Canning	311711	0
Seafood Processing	311712	0
Boat Building	336612	0
Fish and Seafood	422460	0

Fish and Seafood Markets	445220	0
Marinas	713930	3
Total Fishing Employment		9

Employment in fishing sectors is relatively small with 9 total. Most of that employment is listed as fishing as indicated in Table D.123. Employment in marinas completes the fishing sector with only 3 more.

Vulnerability Index Score

The Services sector was the primary growth component for Monroe County. Big Pine Key showed growth in the Services sector from 21.2% in 1980 to 32.3% in 2000. The county had a positive industrial mix with most increases due to the construction sector and the county had a positive competitive share. Big Pine Key poverty rate was 9.3% for 2000 compared to 10.5% for Monroe County. The average wage was higher than the county average in 2000. The sum of the index score for Big Pine Key is a positive 5.

National growth component	1
Industrial mix	1
Competitive share	1
Poverty component	1
Average wage/salary component	1
Total	5

2.35 Key West, Florida (33040, 33041)

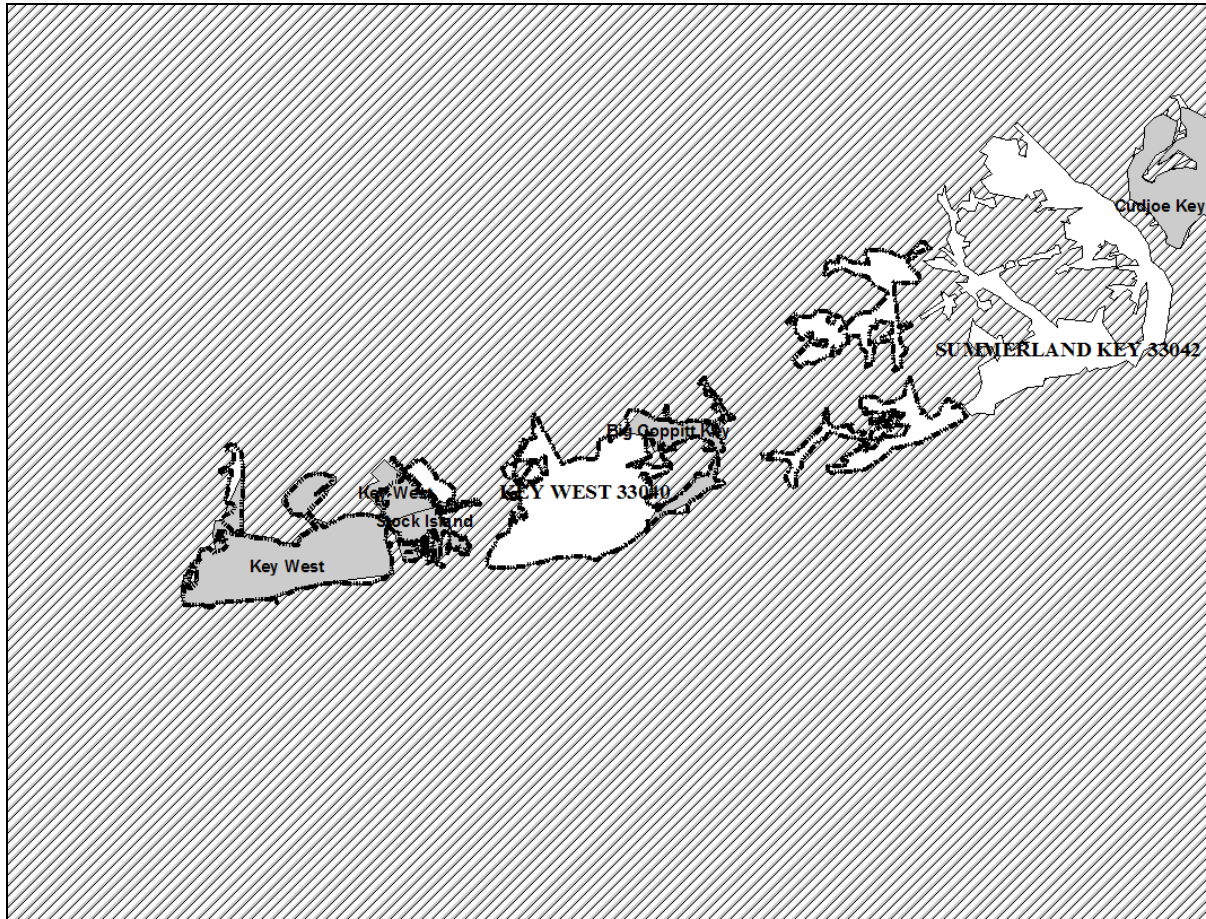


Figure D.44. Key West, Florida Zip code and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

The Key West zip code area includes the CDPs for Key West, Stock Island and Big Coppitt Key. This is the last of the Keys communities and the largest fishing community in terms of number of vessels home ported here with 348.

Table D.124. Federal Permit Type by Homeport and Zip code in Key West, Florida for 2002

Type of Permit	Homeport	Zip code
Shrimp	15	15
Commercial King Mackerel	207	155
Commercial Spanish Mackerel	200	172
Reef Fish	119	88
Red Snapper License Class 1	0	0
Red Snapper License Class 2	18	20
Commercial Spiny Lobster	137	109
Charter/Head boat for Coastal Pelagics	128	62
Charter/Head boat for Reef Fish	113	41
Swordfish	1	33
Shark	14	25
Rock Shrimp	7	5
Federal Dealers		9

Most vessels home ported in Key West hold either a Spanish Mackerel permit with 219 or a king mackerel permits with 207 listed in Table D.124. There are 137 vessels with spiny lobster permits and 119 with reef fish permits. Only 18 vessels hold red snapper class 2 permits. One hundred and twenty-eight vessels hold charter permits for coastal pelagics, while 113 have charter permits for reef fish and 15 have shrimp permits. There are 9 federally permitted dealers in the Key West zip code area.

Table D.125. Gear Type by Homeport and Zip code in Key West, Florida for 2002
(Source: NMFS 2002)

Gear Type	Homeport	Zip code
Shrimp Gear	5	5
Fish Trap Gear	12	10
Gill Net Gear	19	12
Reef Fish Bandit	92	56
Handline/Troll	197	150
Rod & Reel	165	122
Surface Longline	12	4
Bottom Longline	34	20
Lobster Trap	120	95
Diver	81	62
Other	61	47

The gear type most often cited is handline/troll gear with rod & reel close behind with 165 vessels indicated that gear type on board (Table D.125). There were 120 vessels with lobster gear and 81 claiming dive gear.

Table D.126. Total Other Employment and Employment in Fishing Related Industry for Key West, Florida (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	2.35.1.1.1 Number Employed
Total Other Employment		17626
Fishing	114100	18
Seafood Canning	311711	0
Seafood Processing	311712	0
Boat Building	336612	3
Fish and Seafood	422460	24
Fish and Seafood Markets	445220	0
Marinas	713930	46
Total Fishing Employment		91

Most of the fishing sector employment is in marinas according to Table D.126 with 46 persons. Fish and Seafood is next with 24 and 18 in fishing.

Vulnerability Index Score

The Services sector was the primary growth component for Monroe County. Key West showed growth in the Services sector from 22.6% in 1980 to 33.7% in 2000. The county had a positive industrial mix with most increases due to the construction sector and the county had a positive competitive share. Key West poverty rate was 9.9% for 2000 compared to 10.1% for Monroe County, which is practically the same. The average wage was higher than the county average in 2000. The sum of the index score for Key West is a positive 4.

National growth component	1
Industrial mix	1
Competitive share	1
Poverty component	0
Average wage/salary component	1
Total	4

3 LOUISIANA FISHING COMMUNITIES

There are over 300 vessels that list Louisiana as homeport state including the many shrimp vessels that are listed. Most vessels listed in Table D.127 are permitted for shrimp with charter fishing with either a coastal pelagic or reef fish permit next. There are 107 vessels with king mackerel permits and 78 with Spanish mackerel. There are 31 federally permitted dealers in Louisiana according to permit data from NMFS (2002).

Table D.127. Number of Federal Fishing Permit Types by Homeport State and Federal Dealers for Louisiana (NMFS 2002)

Type of Permit	Number
Shrimp	303
Commercial King Mackerel	107
Commercial Spanish Mackerel	78
Reef Fish	87
Red Snapper License Class 1	32
Red Snapper License Class 2	41
Commercial Spiny Lobster	5
Charter/Head boat for Coastal Pelagics	157
Charter/Head boat for Reef Fish	160
Swordfish	37
Shark	56
Rock Shrimp	15
Federal Dealers	31

The gear type most often cited in Table D.128 follows from the permit table as rod & reel and handline/troll gear are the two most often cited. These gear types are most often used in charter fishing and for coastal pelagics like Spanish and king mackerel. Although there are 86 vessels that list shrimp gear, it is likely that there are many more vessels in Louisiana using shrimp gear than are listed here.

Table D.128. Gear Type by Homeport State in Louisiana (NMFS 2002).

Gear Type	Homeport
Shrimp Gear	86
Fish Trap Gear	2
Gill Net Gear	13
Reef Fish Bandit	87
Handline/Troll	117
Rod & Reel	183
Surface Longline	38
Bottom Longline	42
Lobster Trap	0
Diver	26
Other	16

The inability to characterize the shrimp fleet in terms of permits becomes obvious when the volume and value of landings is considered in Table D.129. With a volume of close to 90 millions pounds landed from otter trawls, it is obvious that the shrimp fleet is by far the most important in terms of landings and value.

Table D.129. Pounds Landed and Dollar Value by Gear Type for Louisiana (NMFS 2002)

Gear Type	Pounds landed	Dollar Value
Not Coded	16,473	46,035
Butterfly Nets	55,394,479	76,171,834
Otter Trawl Bottom, Shrimp	89,962,817	176,798,931
Cast Nets	10,611	14,879
Combined Gears	1,212,549,578	165,886,095

The participation by marine recreational anglers in Louisiana has grown from approximately 550,000 in 1995 to over 750,000 in 2001 according to Figure D.45. Marine recreational fishing in Louisiana for 1998 was primarily by in-state fishermen with 75% of anglers residing in in-state coastal counties according to MRFSS (NMFS 2002). Another 18% resided in in-state non-coastal counties and only 7% of marine recreational fishing was by out of state fishermen in 1998.

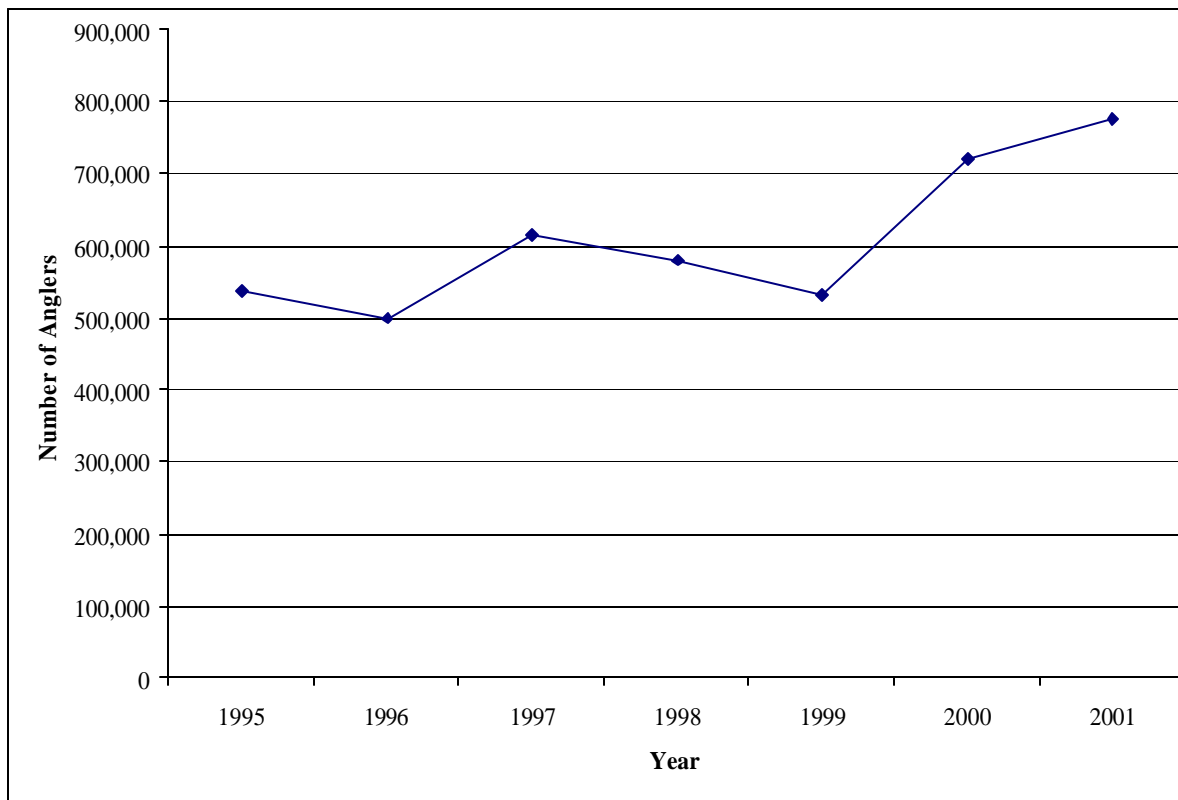


Figure D.45. Marine Recreational Anglers in Louisiana 1995-2001 (NMFS 2002).

The number of marine recreational fishing trips has also seen recent growth in Louisiana as revealed in Figure D.46 with the number of trips rising from slightly less than 3 million in 1995 to over 3.5 million in 2001. In 1998, 70% of those trips were in private/rental boats. Only 2% of fishing trips were made on charter/party boats and 28% were on shore. Over 83% of

saltwater fishing trips were in inland waters, while only 3% were in federal waters. The other 14% were made in state waters according to the MRFSS (Personal communication from the National Marine Fisheries Service, Fisheries Statistics and Economics Division 2002).

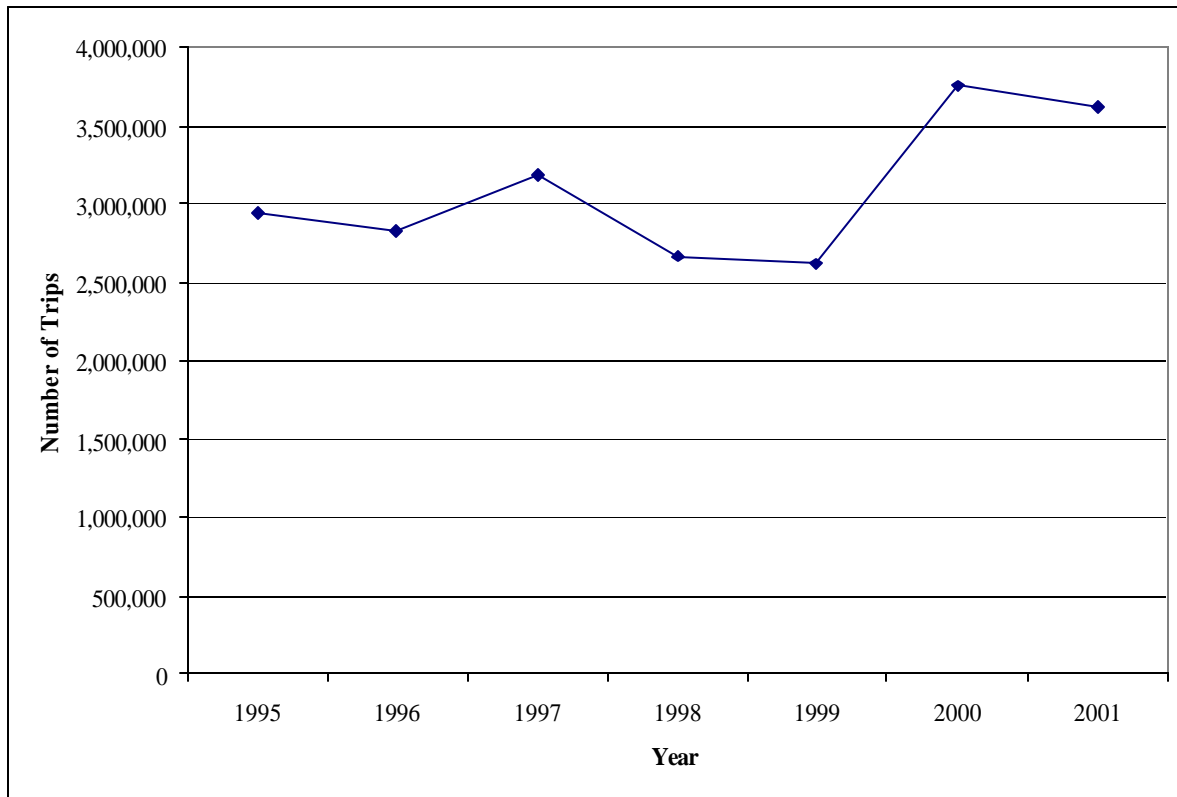


Figure D.46 Marine Recreational Fishing Trips in Louisiana 1995-2001 (NMFS 2002).

There has been little change in the mode of fishing as shown in Figure D.47. The majority of saltwater fishing trips is still by private/rental boat and the fewest by charter/party boats.

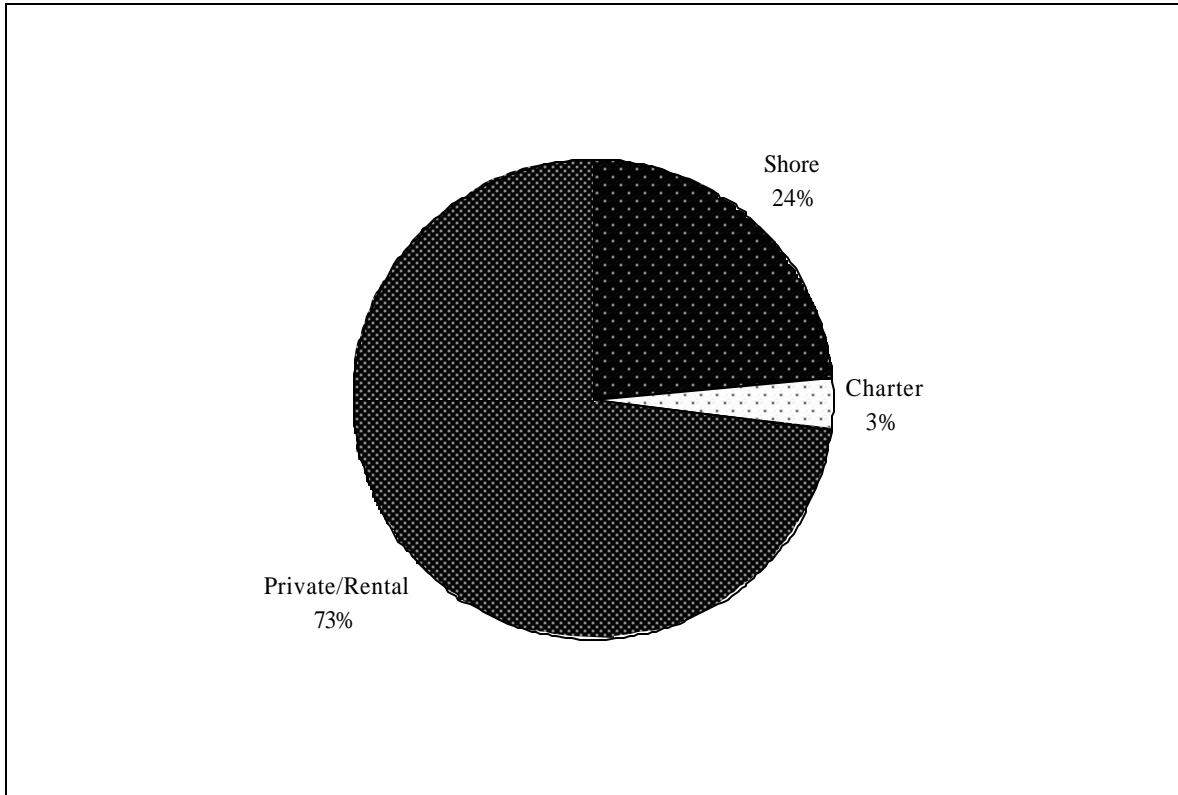


Figure D.47. Marine Recreational Fishing Trips by Mode in Louisiana 2001 (NMFS 2002).

While the communities listed below have been selected to represent those communities from this state that may be impacted by fisheries regulation, others may meet future guidelines that are not yet available to define fishing communities. For that reason the following communities are included as possible fishing communities that were excluded but may require some consideration as communities that could potentially be impacted by council action, but were not included within this initial exercise. This list of communities may be commonly considered fishing communities but were not included in the document due to a variety of reason. The list consists of the following communities: Yoloskey, Cocdrie, Galliano, Leeville, Pointe ala Hache, Buras, Hopedale, Intracoastal City, Freshwater City, Cyprenort Point, Hackberry, Lafitte, and Sulphur.

Venice, Louisiana (70091)

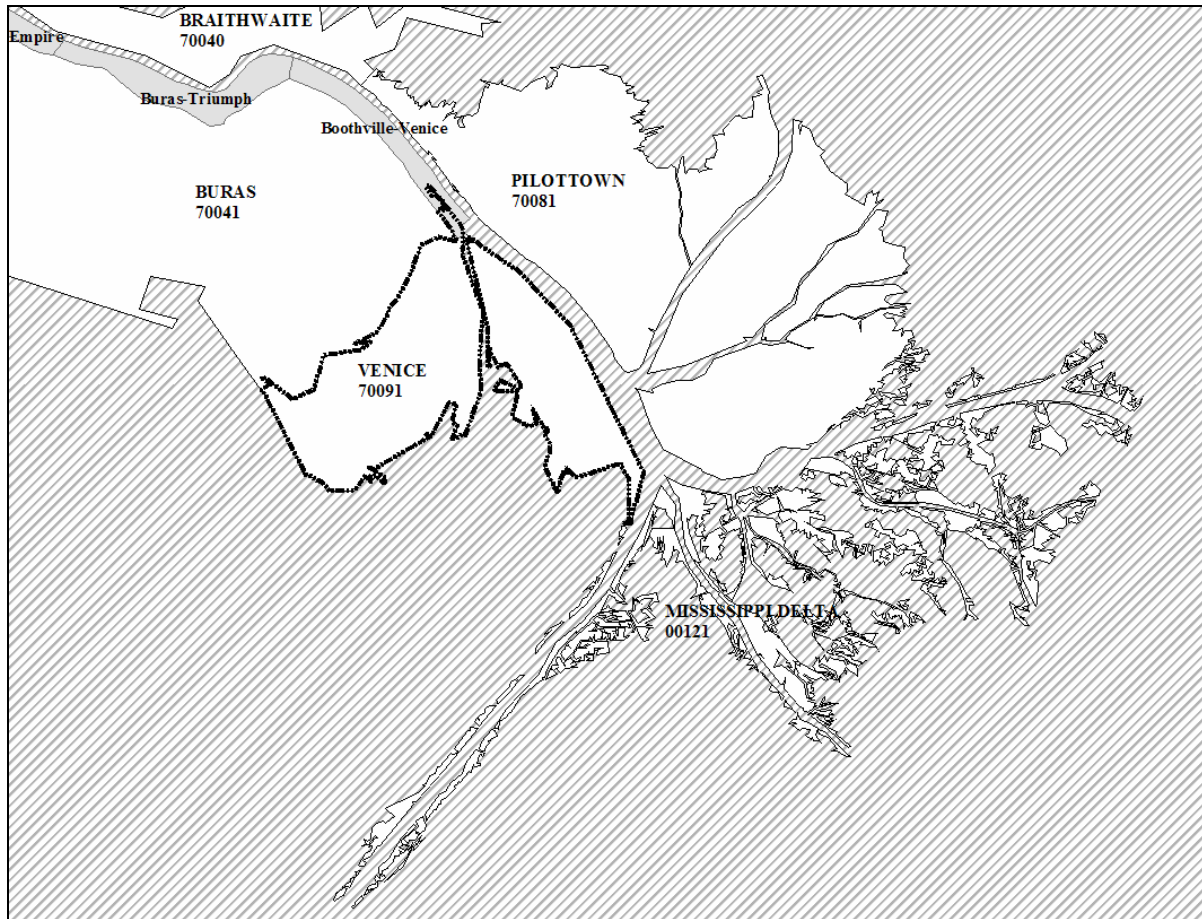


Figure D.48. Venice, Louisiana Zip code and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

Venice is located at the end of the Mississippi Delta in Plaquemine Parrish. The zip code boundary encloses a small part of the Boothville-Venice CDP as seen in Figure D.48.

Table D.130. Federal Permit Type by Homeport and Zip code in Venice, Louisiana for 2002

Type of Permit	Homeport	Zip code
Shrimp	5	5
Commercial King Mackerel	8	0
Commercial Spanish Mackerel	8	2
Reef Fish	11	2
Red Snapper License Class 1	0	0
Red Snapper License Class 2	11	2
Commercial Spiny Lobster	2	0
Charter/Head boat for Coastal Pelagics	24	7
Charter/Head boat for Reef Fish	22	7
Swordfish	5	0
Shark	6	0
Rock Shrimp	1	0
Federal Dealers		3

Of the 39 vessels that call Venice homeport 24 have a charter permit for coastal pelagics and 22 have the same for reef fish (Table D.130). The next most common permit types are reef fish and red snapper class 2, both with 11 vessels holding such permits. There are 8 vessels each holding either king mackerel or Spanish mackerel permits. A large percentage of vessel owners live elsewhere as the number of vessel permits in the zip code boundary are far less than those within the homeport area.

Table D.131. Gear Type by Homeport and Zip code in Venice, Louisiana for 2002
(Source: NMFS 2002)

Gear Type	Homeport	Zip code
Shrimp Gear	8	1
Fish Trap Gear	0	0
Gill Net Gear	3	1
Reef Fish Bandit	11	2
Handline/Troll	10	1
Rod & Reel	24	6
Surface Longline	4	0
Bottom Longline	7	1
Lobster Trap	0	0
Diver	4	2
Other	0	0

Rod & reel gear are the most often listed under Table D.131 for those vessels home ported in Venice. Reef fish bandit gear is next with 11 vessels reporting that type and 10 reporting handline/troll gear. Eight vessels indicate they have shrimp gear and 7 have listed bandit gear onboard.

Table D.132. Total Other Employment and Employment in Fishing Related Industry for Venice, Louisiana (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	3.1.1.1.1 Number Employed
Total Other Employment		1572
Fishing	114100	0
Seafood Canning	311711	0
Seafood Processing	311712	0
Boat Building	336612	0
Fish and Seafood	422460	25
Fish and Seafood Markets	445220	3
Marinas	713930	7
Total Fishing Employment		35

Venice has 35 people employed in fishing related sectors according to Table D.136. The fish and seafood sector has the majority of that employment with 25. Fish and seafood have 3 and marinas employ 7.

Vulnerability Index Score

The Government sector was the primary growth component for Plaquemine Parrish. Because there is no government sector included in Industry the scale score is 0. The county had a negative industrial mix with most jobs in areas decreasing nationally, mostly in the mining sector and the county had a negative competitive share. Venice poverty rate was 17.1% for 2000 compared to 17.5% for Plaquemine Parrish. The average wage was lower than the county average in 2000. The sum of the index score for Venice is a negative three.

National growth component	0
Industrial mix	-1
Competitive share	-1
Poverty component	0
Average wage/salary component	-1
Total	-3

3.2 Empire, Louisiana (70041)

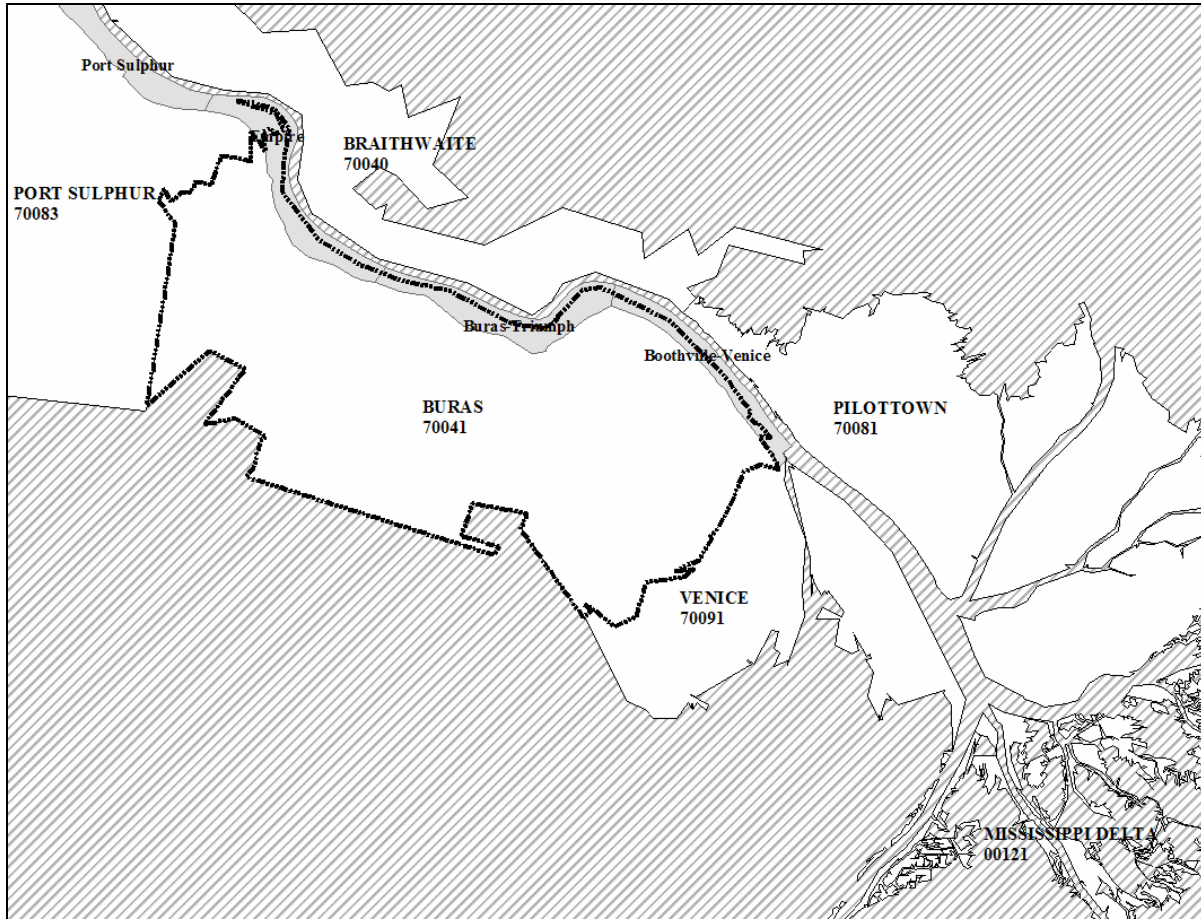


Figure D.49. Empire, Louisiana Zip code and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

Empire is located in Plaquemine Parrish on the Mississippi Delta. The Buras -Triumph and Boothville-Venice CDPs are partially included in the same zip code boundary.

Table D.133. Federal Permit Type by Homeport and Zip code in Empire, Louisiana for 2002

Type of Permit	Homeport	Zip code
Commercial King Mackerel	2	4
Commercial Spanish Mackerel	0	4
Reef Fish	3	5
Red Snapper License Class 1	0	0
Red Snapper License Class 2	1	5
Commercial Spiny Lobster	0	2
Charter/Head boat for Coastal Pelagics	2	4
Charter/Head boat for Reef Fish	2	3
Swordfish	0	0
Shark	0	1
Rock Shrimp	0	2
Federal Dealers		0

Empire has a total of 4 vessels that call this their homeport. There are approximately 9 vessels with owners living within the zip code area. Therefore, almost half of those vessels call another town homeport.

The permit type listed in Table D.133 most frequently is reef fish and red snapper class 2, both with 5 vessels within the zip code area holding those permits. The next most cited permits are king mackerel, Spanish mackerel and coastal pelagic charter, all with 4 vessels. There are no federal dealers in Empire.

Table D.134. Gear Type by Homeport and Zip code in Empire, Louisiana for 2002
(Source: NMFS 2002)

Gear Type	Homeport	Zip code
Shrimp Gear	3	6
Fish Trap Gear	0	0
Gill Net Gear	0	0
Reef Fish Bandit	1	5
Handline/Troll	1	4
Rod & Reel	4	4
Surface Longline	0	1
Bottom Longline	0	1
Lobster Trap	0	0
Diver	1	1
Other	0	0

Shrimp gear is the type most often listed in Table D.134 with 6 vessels claiming this type of gear. The next most often cited is reef fish bandit gear with handline/troll and rod & reel following.

Table D.135. Total Other Employment and Employment in Fishing Related Industry for Empire, Louisiana (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	3.2.1.1.1 Number Employed
Total Other Employment		212
Fishing	114100	9
Seafood Canning	311711	0
Seafood Processing	311712	210
Boat Building	336612	0
Fish and Seafood	422460	17
Fish and Seafood Markets	445220	0
Marinas	713930	3
Total Fishing Employment		239

Although Empire is homeport to very few vessels, there is considerable employment in the area of fishing related businesses. There are 210 persons employed in the seafood processing sector and another 17 in fish and seafood. There are 9 persons listed in the fishing sector and 3 more in marinas. Over 50% of total employment is in the seafood sector according to Table D.135.

Vulnerability Index Score

The Government sector was the primary growth component for Plaquemine Parrish. Because there is no government sector included in Industry the scale score is 0. The county had a negative industrial mix with most jobs in areas decreasing nationally, mostly in the mining sector and the county had a negative competitive share. Empire poverty rate was 27.6% for 1990 compared to 17.5% for Plaquemine Parrish. The average wage was lower than the county average in 1990. The sum of the index score for Empire is a negative four.

National growth component	0
Industrial mix	-1
Competitive share	-1
Poverty component	-1
Average wage/salary component	-1
Total	-4

3.3 Grand Isle, Louisiana (70358)

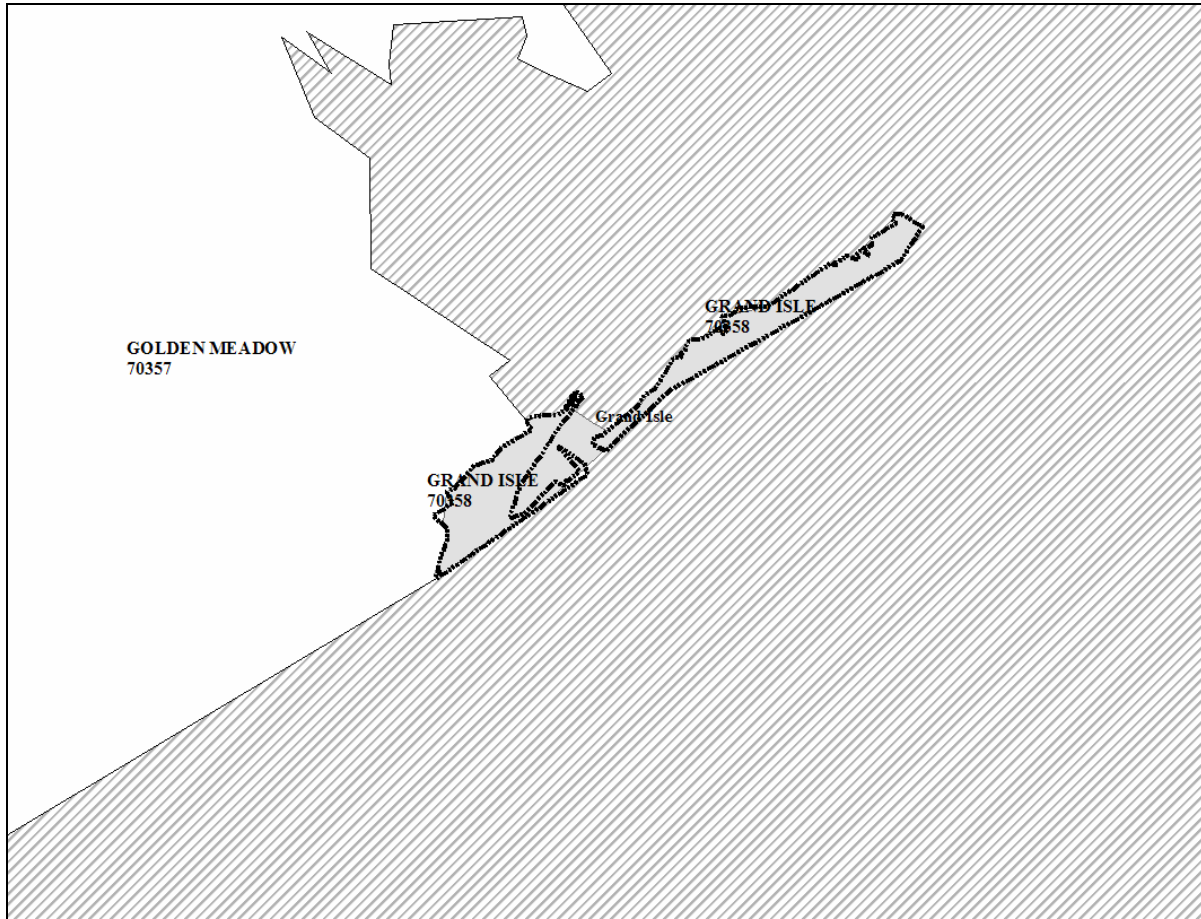


Figure D.50. Grand Isle, Louisiana Zip code and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

Grand Isle is in LaFourche Parrish to the southeast of Golden Meadow. The zip code boundary and CDP boundary are synonymous (Figure D.39).

Table D.136. Federal Permit Type by Homeport and Zip code in Grand Isle, Louisiana for 2002

Type of Permit	Homeport	Zip code
Shrimp	8	8
Commercial King Mackerel	15	23
Commercial Spanish Mackerel	14	20
Reef Fish	4	8
Red Snapper License Class 1	0	2
Red Snapper License Class 2	4	4
Commercial Spiny Lobster	0	0
Charter/Head boat for Coastal Pelagics	12	7
Charter/Head boat for Reef Fish	14	8
Swordfish	0	0
Shark	0	0
Rock Shrimp	0	0
Federal Dealers		2

There are 28 vessels that claim Grand Isle homeport and there are 31 with owners in the zip code area. Most of those vessels that homeport hold king mackerel (15) and Spanish mackerel (14) permits as shown in Table D.136. Charter permits are also commonly held by vessels home porting in Grand Isle as 12 hold coastal pelagic and 14 have reef fish.

Table D.137. Gear Type by Homeport and Zip code in Grand Isle, Louisiana for 2002
(Source: NMFS 2002)

Gear Type	Homeport	Zip code
Shrimp Gear	14	17
Fish Trap Gear	1	0
Gill Net Gear	0	0
Reef Fish Bandit	5	9
Handline/Troll	15	21
Rod & Reel	15	15
Surface Longline	3	4
Bottom Longline	1	2
Lobster Trap	0	0
Diver	0	0
Other	1	2

Handline/troll gear is the most often cited gear by zip code and homeport in Table D.137. Shrimp gear follows closely with 17 vessels in the zip code boundary and 14 home ported there claiming that gear type. Rod & reel gear is also commonly cited with 15 vessels in both the zip code area and homeport area.

Table D.138. Total Other Employment and Employment in Fishing Related Industry for Grand Isle, Louisiana (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	3.3.1.1.1 Number Employed
Total Other Employment		852
Fishing	114100	7
Seafood Canning	311711	3
Seafood Processing	311712	0
Boat Building	336612	0
Fish and Seafood	422460	22
Fish and Seafood Markets	445220	0
Marinas	713930	3
Total Fishing Employment		35

Employment in the fishing sector is primarily in the fish and seafood area with 22 persons employed there. Another 7 are listed as fishing and 3 are in seafood canning and marinas for a total of 35 as shown in Table D.138.

Vulnerability Index Score

The Services sector was the primary growth component for LaFourche Parrish. Grand Isle showed growth in the Service sector from 7.7% in 1980 to 32.8% in 2000. The county had a negative industrial mix with most jobs in areas decreasing nationally, mostly in the manufacturing sector and the county had a negative competitive share. Grand Isle poverty rate was 25.8% for 2000 compared to 16.2% for LaFourche Parrish. The average wage was lower than the county average in 2000. The sum of the index score for Grand Isle is -3.

National growth component	1
Industrial mix	-1
Competitive share	-1
Poverty component	-1
Average wage/salary component	-1
Total	-3

3.4 Golden Meadow, Louisiana (70357)

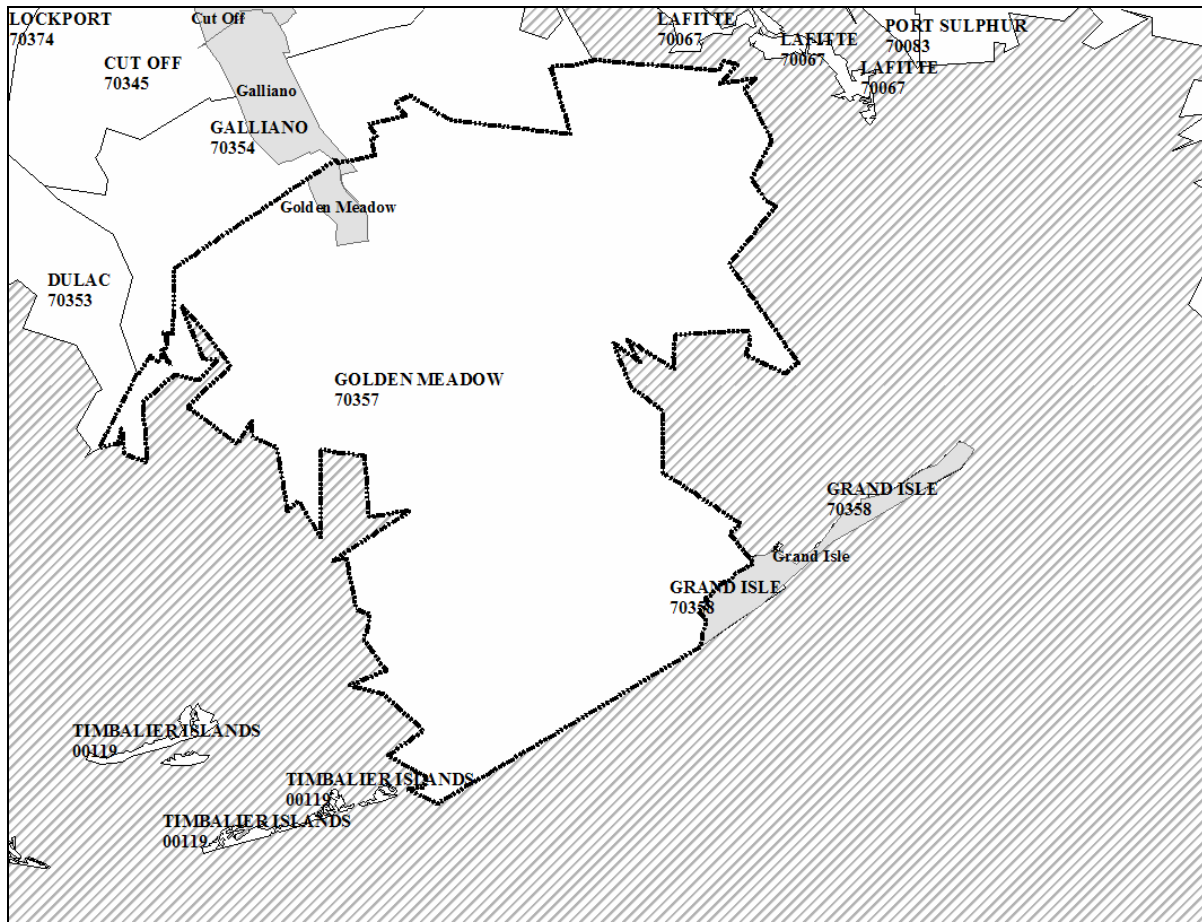


Figure D.51. Golden Meadow, Louisiana Zip code and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

Golden Meadow is also located in La Fourche Parrish and as Figure D.40 indicates the CDP boundary is quite small in comparison to the zip code boundary.

Table D.139. Federal Permit Type by Homeport and Zip code in Golden Meadow, Louisiana for 2002

Type of Permit	Homeport	Zip code
Shrimp	6	6
Commercial King Mackerel	1	4
Commercial Spanish Mackerel	1	3
Reef Fish	1	4
Red Snapper License Class 1	0	3
Red Snapper License Class 2	0	0
Commercial Spiny Lobster	0	0
Charter/Head boat for Coastal Pelagics	3	9
Charter/Head boat for Reef Fish	3	10
Swordfish	0	0
Shark	0	0
Rock Shrimp	0	0
Federal Dealers		2

At least a total of 6 vessels call Golden Meadow homeport and 14 are located within the zip code boundary. Most of those vessels in the zip code boundary list reef fish (10) or coastal pelagic (9) charter permits in Table D.139. A few vessels list king and Spanish mackerel permits. There are 4 vessels in the zip code boundary that hold reef fish permits and 3 of those have a red snapper class 1 permit. All six of the vessels that call this community homeport have shrimp permits.

Table D.140. Gear Type by Homeport and Zip code in Golden Meadow, Louisiana for 2002 (Source: NMFS 2002)

Gear Type	Homeport	Zip code
Shrimp Gear	2	3
Fish Trap Gear	0	0
Gill Net Gear	1	1
Reef Fish Bandit	1	4
Handline/Troll	3	6
Rod & Reel	4	13
Surface Longline	0	1
Bottom Longline	0	0
Lobster Trap	0	0
Diver	2	1
Other	1	1

Rod & reel gear is the most often cited gear type for the Golden Meadow zip code area according to Table D.140. Handline/troll is next with 6 vessels carrying that type of gear. Four vessels in the zip code boundary have bandit gear on board and 3 list shrimp gear.

Table D.141. Total Other Employment and Employment in Fishing Related Industry for Golden Meadow, Louisiana (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	Number Employed
Total Other Employment		1870
Fishing	114100	7
Seafood Canning	311711	0
Seafood Processing	311712	15
Boat Building	336612	0
Fish and Seafood	422460	29
Fish and Seafood Markets	445220	0
Marinas	713930	3
Total Fishing Employment		54

Employment in fish and seafood sector is the leading fishing sector employment with 29 according to Table D.141 for Golden Meadow. Seafood processing employs 15 and 7 are listed under the fishing sector. With 3 in the marinas sector the fishing sector employment totals 57.

Vulnerability Index Score

The Services sector was the primary growth component for LaFourche Parrish. Golden Meadow showed growth in the Service sector from 7.5% in 1980 to 34.4% in 2000. The county had a negative industrial mix with most jobs in areas decreasing nationally, mostly in the manufacturing sector and the county had a negative competitive share. Golden Meadow poverty rate was 18.7% for 2000 compared to 16.2% for LaFourche Parrish. The average wage was lower than the county average in 2000. The sum of the index score for Golden Meadow is a negative 3.

National growth component	1
Industrial mix	-1
Competitive share	-1
Poverty component	-1
Average wage/salary component	-1
Total	-3

3.5 Cutoff, Louisiana (70345)

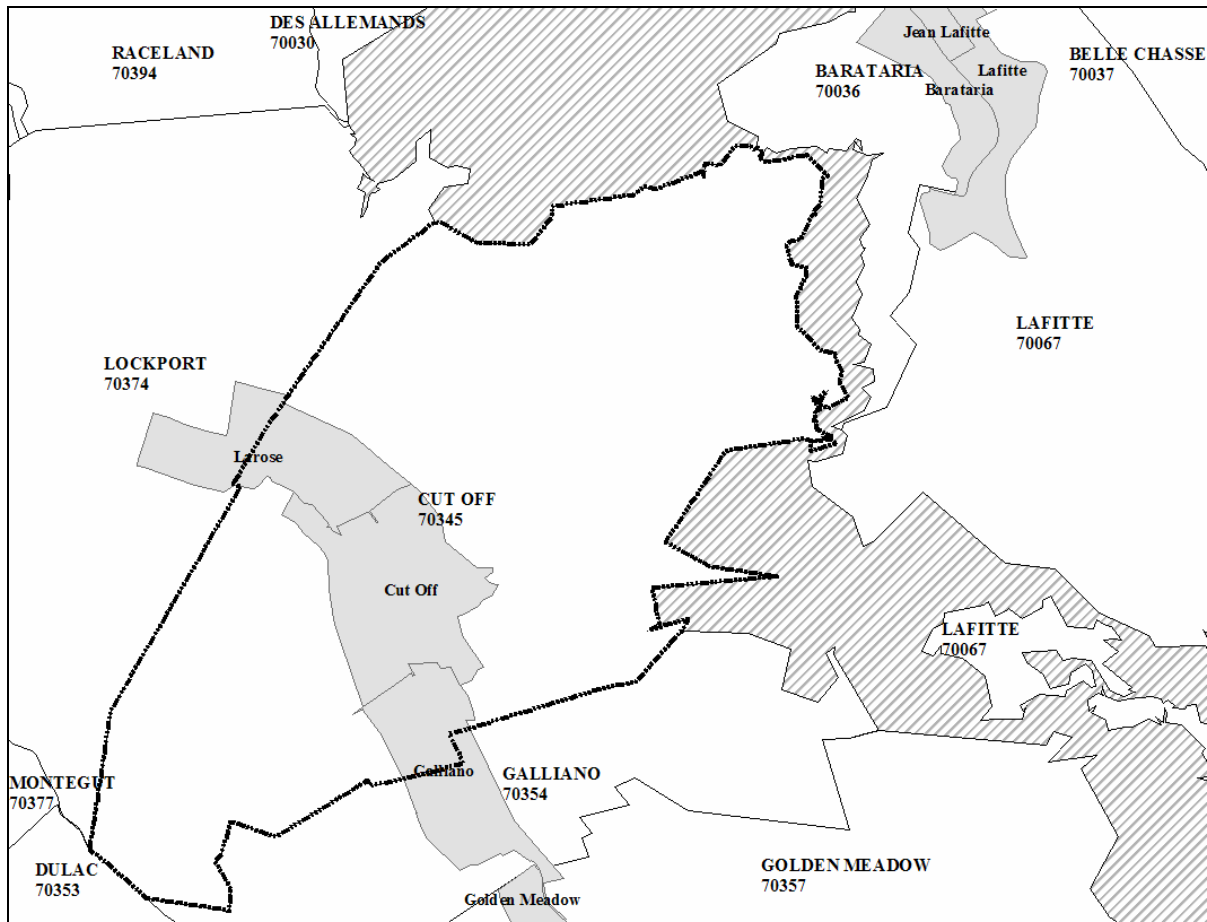


Figure D.41. Cutoff, Louisiana Zip code and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

Cutoff is the third fishing community found in Lafourche Parrish. The zip code boundary includes portions of the Larose and Galiano CDPs in addition to the Cutoff CDP as shown in Figure D.41.

Table D.142. Federal Permit Type by Homeport and Zip code in Cutoff, Louisiana for 2002

Type of Permit	Homeport	Zip code
Shrimp	28	28
Commercial King Mackerel	2	5
Commercial Spanish Mackerel	0	2
Reef Fish	0	0
Red Snapper License Class 1	0	0
Red Snapper License Class 2	0	0
Commercial Spiny Lobster	0	0
Charter/Head boat for Coastal Pelagics	2	0
Charter/Head boat for Reef Fish	2	7
Swordfish	0	1
Shark	0	1
Rock Shrimp	0	0
Federal Dealers		1

According to Table D.142 most vessel hold shrimp permits in Cutoff. Outside of shrimp, the majority of vessels in the zip code area hold charter permits for reef fish, none hold coastal pelagics. However, there are 2 vessels home porting in Cutoff which hold charter permits for coastal pelagics. There are 5 vessels that hold king mackerel permits and 2 with Spanish mackerel in the zip code area. There is one federal dealer in the Cutoff zip code area.

Table D.143. Gear Type by Homeport and Zip code in Cutoff, Louisiana for 2002
(Source: NMFS 2002)

Gear Type	Homeport	Zip code
Shrimp Gear	2	4
Fish Trap Gear	0	0
Gill Net Gear	0	0
Reef Fish Bandit	0	0
Handline/Troll	2	6
Rod & Reel	3	7
Surface Longline	1	1
Bottom Longline	0	1
Lobster Trap	0	0
Diver	1	2
Other	0	0

There are 7 vessels with rod & reel gear on board according to Table D.143 and 6 with handline/troll gear. About half that many home ported in Cutoff report these gear types.

Employment in the fishing sector listed in Table D.144 is primarily in fish and seafood markets with 18. Another 6 are employed in both fishing and marinas.

Table D.144. Total Other Employment and Employment in Fishing Related Industry for Cutoff, Louisiana (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	Number Employed
Total Other Employment		3312
Fishing	114100	6
Seafood Canning	311711	0
Seafood Processing	311712	0
Boat Building	336612	0
Fish and Seafood	422460	0
Fish and Seafood Markets	445220	18
Marinas	713930	6
Total Fishing Employment		30

Vulnerability Index Score

The Services sector was the primary growth component for LaFourche Parrish. Cutoff showed growth in the Service sector from 7.3% in 1980 to 43.3% in 2000. The county had a negative industrial mix with most decreases in the manufacturing sector and the county had a negative competitive share. Cutoff poverty rate was 7.8% for 2000 compared to 16.2% for LaFourche Parrish. The average wage was higher than the county average in 2000. The sum of the index score for Cutoff is a positive 1.

National growth component	1
Industrial mix	-1
Competitive share	-1
Poverty component	1
Average wage/salary component	1
Total	1

3.6 Chauvin, Louisiana (70344)

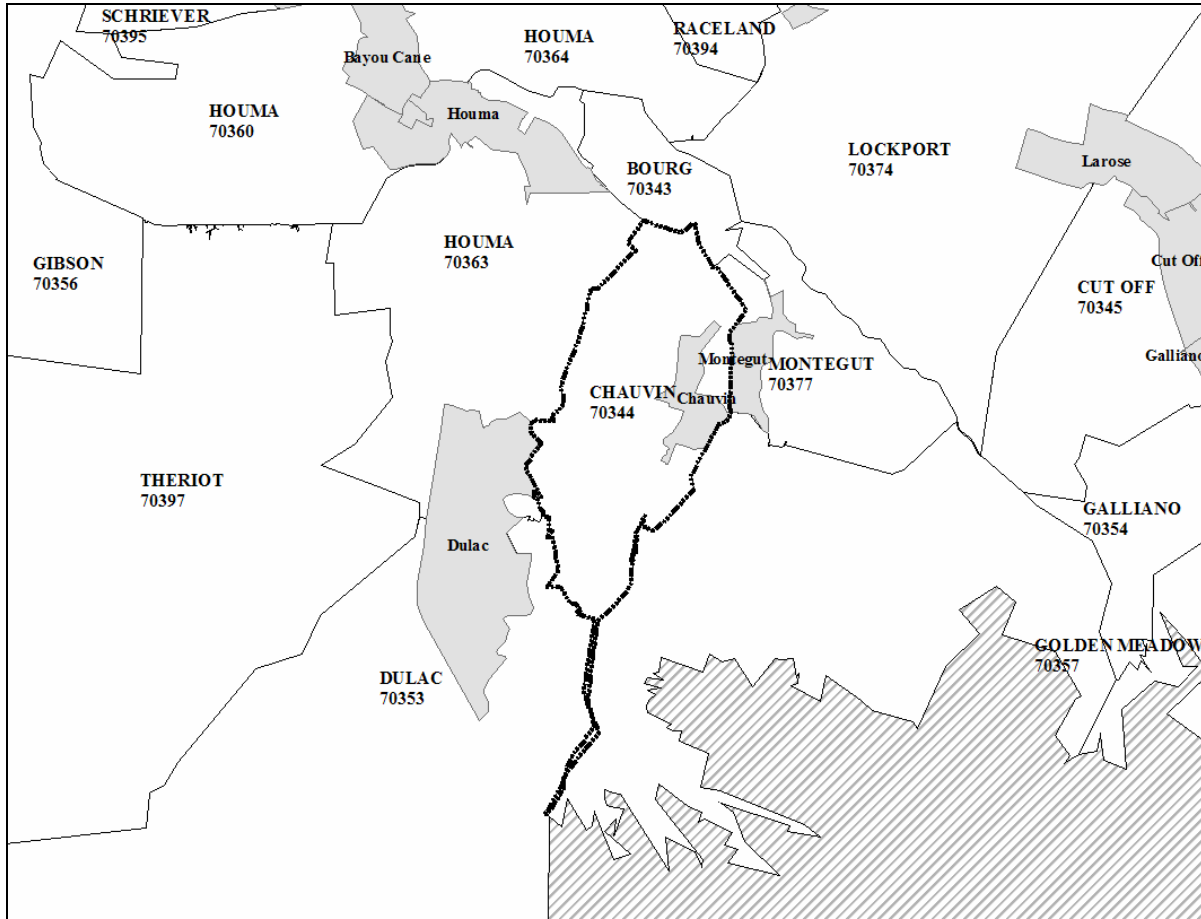


Figure D.53. Chauvin, Louisiana Zip code and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

Chauvin is located in Terrebonne Parrish just northeast of Dulac. The zip code boundary is slightly larger than the CDP boundary, but encompasses only the Dulac CDP as shown in Figure D.53.

Table D.145. Federal Permit Type by Homeport and Zip code in Chauvin, Louisiana for 2002

Type of Permit	Homeport	Zip code
Shrimp	26	26
Commercial King Mackerel	0	0
Commercial Spanish Mackerel	0	0
Reef Fish	3	2
Red Snapper License Class 1	2	1
Red Snapper License Class 2	0	0
Commercial Spiny Lobster	0	0
Charter/Head boat for Coastal Pelagics	29	25
Charter/Head boat for Reef Fish	29	25
Swordfish	0	0
Shark	0	0
Rock Shrimp	0	0
Federal Dealers		1

There are more than 30 vessels that call Chauvin homeport and could be closer to fifty. Of those, many hold charter permits for coastal pelagics and reef fish as shown in Table D.146. There are 26 vessels that have at this time reported holding shrimp permits. There are only a few other permits types held with 3 holding reef fish permits and 2 of those have red snapper class 1 permits. There is 1 federal dealer in the Chauvin zip code area.

Table D.146. Gear Type by Homeport and Zip code in Chauvin, Louisiana for 2002
(Source: NMFS 2002)

Gear Type	Homeport	Zip code
Shrimp Gear	2	1
Fish Trap Gear	0	0
Gill Net Gear	0	0
Reef Fish Bandit	5	3
Handline/Troll	5	2
Rod & Reel	29	25
Surface Longline	1	0
Bottom Longline	0	0
Lobster Trap	0	0
Diver	2	2
Other	0	0

Accordingly, the most often gear type listed in Table D.146 is rod & reel gear. Shrimp gear is listed by 2 vessels with reef fish bandit gear and handline/troll gear listed by 5 vessels each.

Table D.147. Total Other Employment and Employment in Fishing Related Industry for Chauvin, Louisiana (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	3.6.1.1.1 Number Employed
Total Other Employment		516
Fishing	114100	0
Seafood Canning	311711	0
Seafood Processing	311712	217
Boat Building	336612	0
Fish and Seafood	422460	65
Fish and Seafood Markets	445220	0
Marinas	713930	57
Total Fishing Employment		339

Employment in the fishing sector contributes a good portion to the total employment for the area according to Table D.147 with seafood processing employing 217 of the total 339 for the fishing sector. Another 65 are employed in the fish and seafood sector while 57 are in marinas. The fishing sector contributes nearly 40% of the total employment in Chauvin according to the zip code business patterns.

Vulnerability Index Score

The Services sector was the primary growth component for Terrebonne Parrish. Chauvin showed growth in the Service sector from 7.1% in 1980 to 38% in 2000. The county had a negative industrial mix with most decreases in the mining sector and the county had a negative competitive share. Chauvin poverty rate was 19.9% for 2000 compared to 18.8% for Terrebonne Parrish. The average wage was lower than the county average in 2000. The sum of the index score for Chauvin is -3.

National growth component	1
Industrial mix	-1
Competitive share	-1
Poverty component	-1
Average wage/salary component	-1
Total	-2

3.7 Dulac, Louisiana (70353)

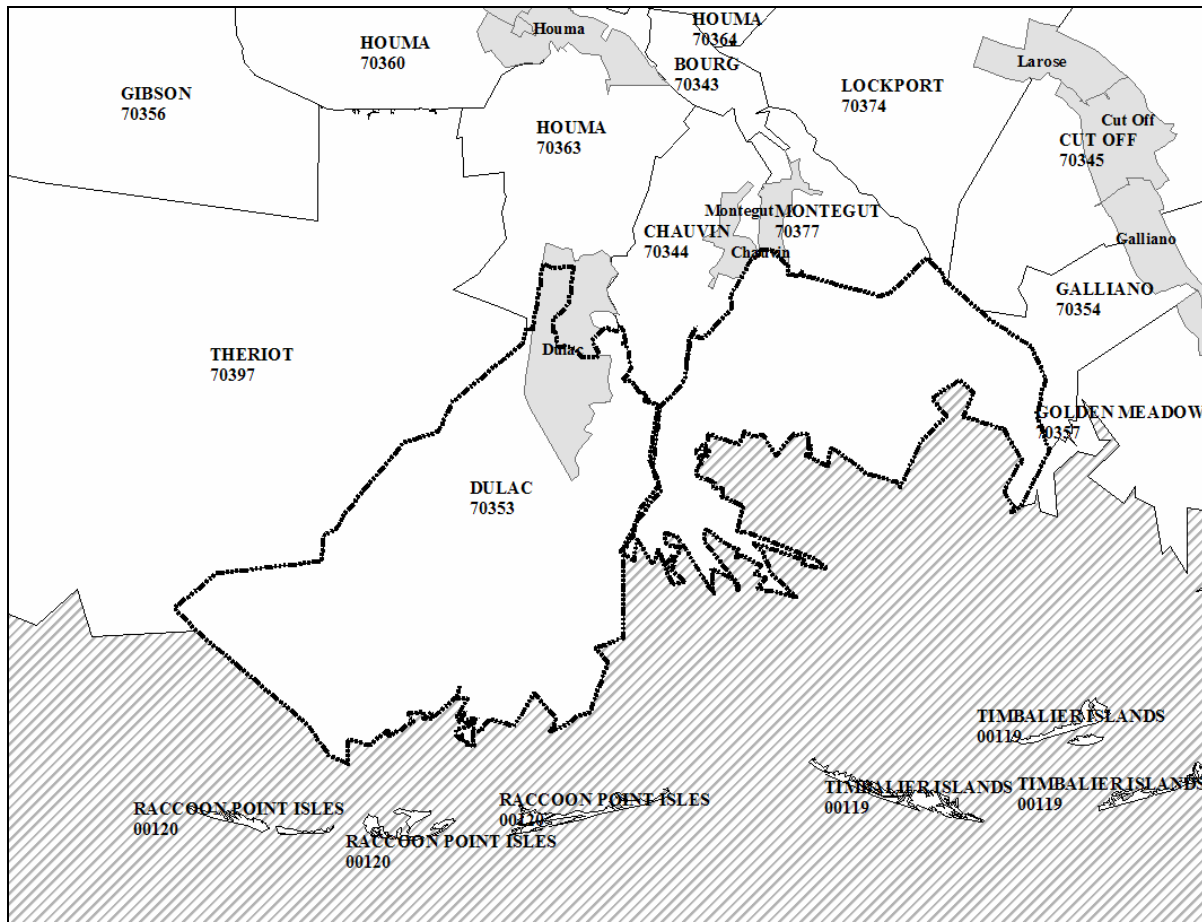


Figure D.54. Dulac, Louisiana Zip code and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

Dulac is located in Terrebonne Parrish and the zip code boundary covers most of the eastern coastline of the county. The zip code boundary seems to cut through the CDP boundary in such a way that it may not include the entire CDP as shown in Figure D.54.

Table D.148. Federal Permit Type by Homeport and Zip code in Dulac, Louisiana for 2002

Type of Permit	Homeport	Zip code
Shrimp	5	5
Commercial King Mackerel	0	0
Commercial Spanish Mackerel	0	0
Reef Fish	0	0
Red Snapper License Class 1	0	0
Red Snapper License Class 2	0	0
Commercial Spiny Lobster	0	0
Charter/Head boat for Coastal Pelagics	2	2
Charter/Head boat for Reef Fish	2	2
Swordfish	3	2
Shark	3	1
Rock Shrimp	0	0
Federal Dealers		2

However, the CDP shape boundaries are not as precise as the zip code shape files and the CDP boundary may be included within the zip code boundary.

There are 5 vessels listed at this time that call Dulac homeport with all five holding shrimp permits. Three vessels hold swordfish permits and 3 hold shark permits (Table D.148). Charter permits for coastal pelagics and reef fish are held by 2 vessels each. According to Table D.149 there are 2 vessels that have either surface or bottom longline gear. One vessel has shrimp gear and 1 indicates rod & reel gear.

Table D.149. Gear Type by Homeport and Zip code in Dulac, Louisiana for 2002
(Source: NMFS 2002)

Gear Type	Homeport	Zip code
Shrimp Gear	1	0
Fish Trap Gear	0	0
Gill Net Gear	0	0
Reef Fish Bandit	0	0
Handline/Troll	0	0
Rod & Reel	1	1
Surface Longline	2	0
Bottom Longline	2	0
Lobster Trap	0	0
Diver	0	0
Other	1	0

Employment in seafood processing is the largest category for the fishing sector with 65 persons estimated to be employed in that sector according to Table D.150. Other sectors are fishing with 20 and fish and seafood with 16. Combined the total employment for the fishing sector is 101 persons or almost 18% of all employment for the zip code area.

Table D.150. Total Other Employment and Employment in Fishing Related Industry for Dulac, Louisiana (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	3.7.1.1.1 Number Employed
Total Other Employment		466
Fishing	114100	20
Seafood Canning	311711	0
Seafood Processing	311712	65
Boat Building	336612	0
Fish and Seafood	422460	16
Fish and Seafood Markets	445220	0
Marinas	713930	0
Total Fishing Employment		101

Vulnerability Index Score

The Services sector was the primary growth component for Terrebonne Parrish. Dulac showed growth in the Service sector from 17.5% in 1980 to 26.3% in 2000. The county had a negative industrial mix with most decreases in the mining sector and the county had a negative competitive share. Dulac poverty rate was 30.5% for 2000 compared to 18.8% for Terrebonne Parrish. The average wage was lower than the county average in 2000. The sum of the index score for Dulac is a negative 3.

National growth component	1
Industrial mix	-1
Competitive share	-1
Poverty component	-1
Average wage/salary component	-1
Total	-3

3.8 Houma, Louisiana (70363, 70364)

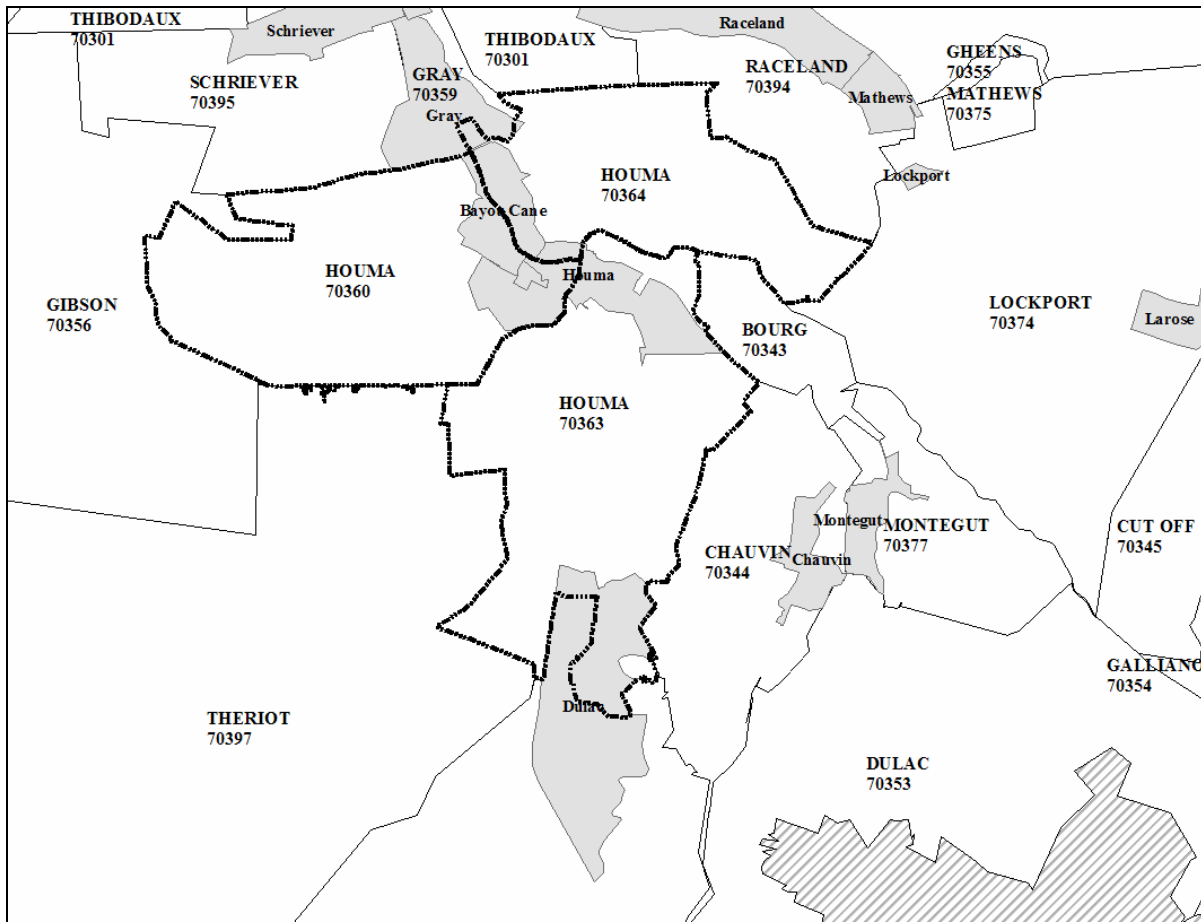


Figure D.55. Houma, Louisiana Zip code and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

The Houma CDP located in Terrebonne Parish is dissected by several different zip code boundary areas (Figure D.55). The CDP of Bayou Cane is also included within these boundaries.

Table D.151. Federal Permit Type by Homeport and Zip code in Houma for 2002

Type of Permit	Homeport	Zip code
Shrimp	18	18
Commercial King Mackerel	1	0
Commercial Spanish Mackerel	1	1
Reef Fish	0	1
Red Snapper License Class 1	0	1
Red Snapper License Class 2	0	0
Commercial Spiny Lobster	1	0
Charter/Head boat for Coastal Pelagics	10	6
Charter/Head boat for Reef Fish	11	6
Swordfish	2	4
Shark	1	4
Rock Shrimp	1	0
Federal Dealers		2

Houma has more than 18 vessels that are homeported there according to permit data. Eighteen of them have shrimp permits. Several have a charter permit for coastal pelagics (10) or for reef fish (11). There are very few other homeport vessel permits other than 1 vessel for king mackerel, Spanish mackerel, shark and rock shrimp each. There are a few permits outside the homeport area as shown in Table D.151.

Table D.152 Gear Type by Homeport and Zipcode in Houma, Louisiana for 2002
(Source: NMFS 2002)

Gear Type	Homeport	Zipcode
Shrimp Gear	1	2
Fish Trap Gear	0	0
Gill Net Gear	0	0
Reef Fish Bandit	1	3
Handline/Troll	3	2
Rod & Reel	10	5
Surface Longline	0	2
Bottom Longline	2	2
Lobster Trap	0	0
Diver	1	0
Other	0	2

The predominant gear type for those vessels listed in Table D.152 is rod & reel. Other gear types are listed but few have more than a couple of vessels reporting such gear in either homeport or zip code area.

Table D.153. Total Other Employment and Employment in Fishing Related Industry for Houma, Louisiana (Zipcode Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	3.8.1.1.1 Number Employed
Total Other Employment		20495
Fishing	114100	24
Seafood Canning	311711	0
Seafood Processing	311712	81
Boat Building	336612	150
Fish and Seafood	422460	202
Fish and Seafood Markets	445220	9
Marinas	713930	15
Total Fishing Employment		481

While Houma may not have many vessels with federal permits, there is considerable fishing sector employment as seen in Table D.153. Total fishing employment is 481 and contributes about 2.3% of total employment.

Vulnerability Index Score

The Services sector was the primary growth component for Terrebonne Parrish. Houma showed growth in the Service sector from 16.1% in 1980 to 46.3% in 2000. The county had a negative industrial mix with most decreases in the mining sector and the county had a negative competitive share. Houma poverty rate was 20.2% for 2000 compared to 18.8% for Terrebonne Parrish. The average wage was lower than the county average in 2000. The sum of the index score for Houma is negative 3.

National growth component	1
Industrial mix	-1
Competitive share	-1
Poverty component	-1
Average wage/salary component	-1
Total	-3

3.9 Delcambre, Louisiana (70528)

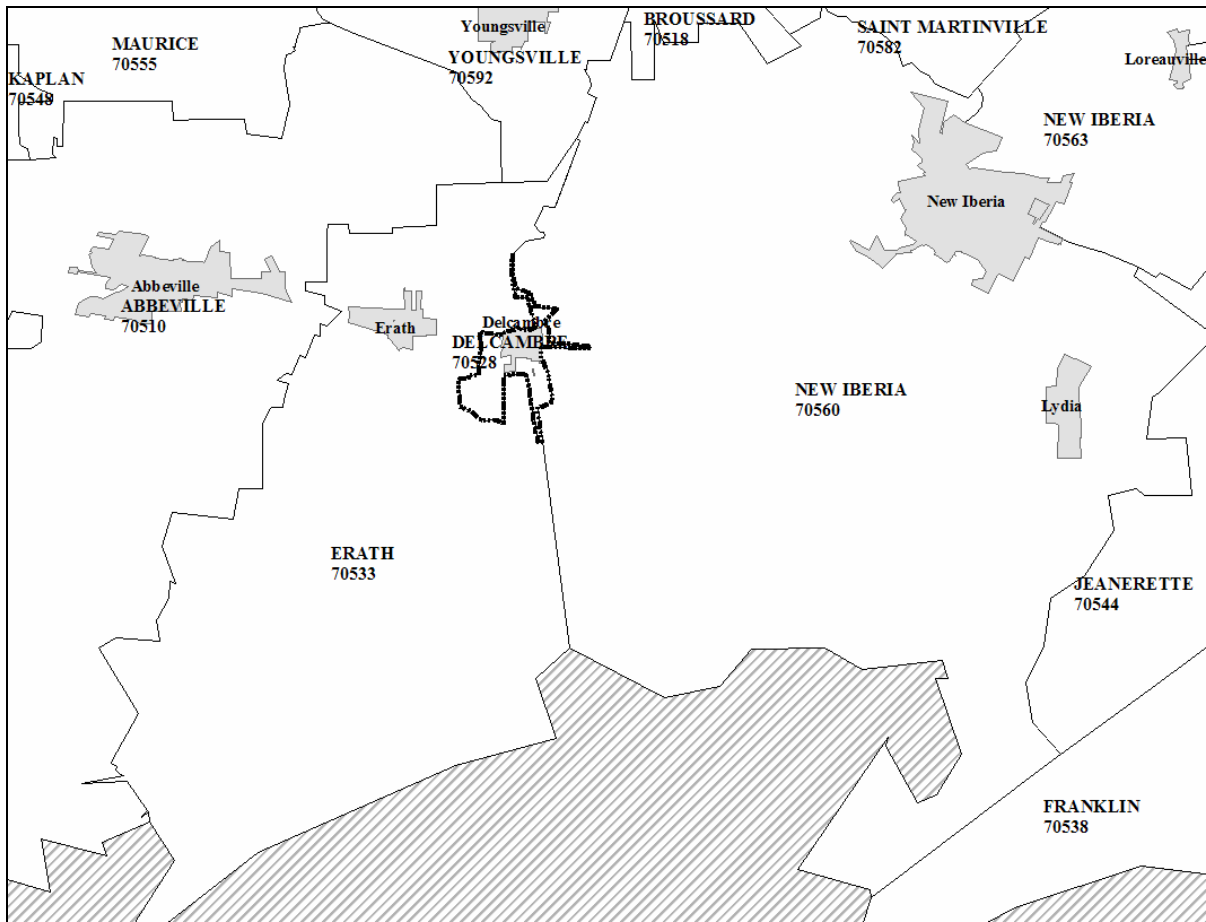


Figure D.56. Delcambre, Louisiana Zip code and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

Delcambre is located in Vermilion Parrish west of New Iberia. The zip code boundary is relatively small and includes only the Delcambre CDP (Figure D.56).

Table D.154. Federal Permit Type by Homeport and Zip code in Delcambre, Louisiana for 2002

Type of Permit	Homeport	Zip code
Shrimp	2	2
Commercial King Mackerel	1	0
Commercial Spanish Mackerel	1	0
Reef Fish	1	0
Red Snapper License Class 1	1	0
Red Snapper License Class 2	0	0
Commercial Spiny Lobster	0	0
Charter/Head boat for Coastal Pelagics	0	0
Charter/Head boat for Reef Fish	0	0
Swordfish	0	0
Shark	0	0
Rock Shrimp	0	0
Federal Dealers		0

Delcambre has only 2 vessels that claim it as homeport and they hold shrimp permits.

Table D.155. Gear Type by Homeport and Zip code in Delcambre, Louisiana for 2002
(Source: NMFS 2002)

Gear Type	Homeport	Zip code
Shrimp Gear	1	0
Fish Trap Gear	0	0
Gill Net Gear	0	0
Reef Fish Bandit	1	0
Handline/Troll	1	0
Rod & Reel	1	0
Surface Longline	0	0
Bottom Longline	0	0
Lobster Trap	0	0
Diver	1	0
Other	0	0

Although it has very few federally permitted vessels Delcambre does have employment in the fishing sector as shown in Table D.156. Employment in the seafood processing sector contributes the most with 120 and another 13 in fish and seafood give a total of 133.

Table D.156. Total Other Employment and Employment in Fishing Related Industry for Delcambre, Louisiana (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	<i>3.9.1.1.1 Number Employed</i>
Total Other Employment		
Fishing	114100	0
Seafood Canning	311711	0
Seafood Processing	311712	120
Boat Building	336612	0
Fish and Seafood	422460	13
Fish and Seafood Markets	445220	0
Marinas	713930	0
Total Fishing Employment		133

Vulnerability Index Score

The Services sector was the primary growth component for Vermilion Parrish. Delcambre showed growth in the Service sector from 10.6% in 1980 to 45.2% in 2000. The county had a negative industrial mix with most decreases in the mining sector and the county had a negative competitive share. Delcambre poverty rate was 20.0% for 2000 compared to 21.7% for Vermilion Parrish. The average wage was lower than the county average in 2000. The sum of the index score for Delcambre is -1.

National growth component	1
Industrial mix	-1
Competitive share	-1
Poverty component	1
Average wage/salary component	-1
Total	-1

3.10 Morgan City, Louisiana (70380)

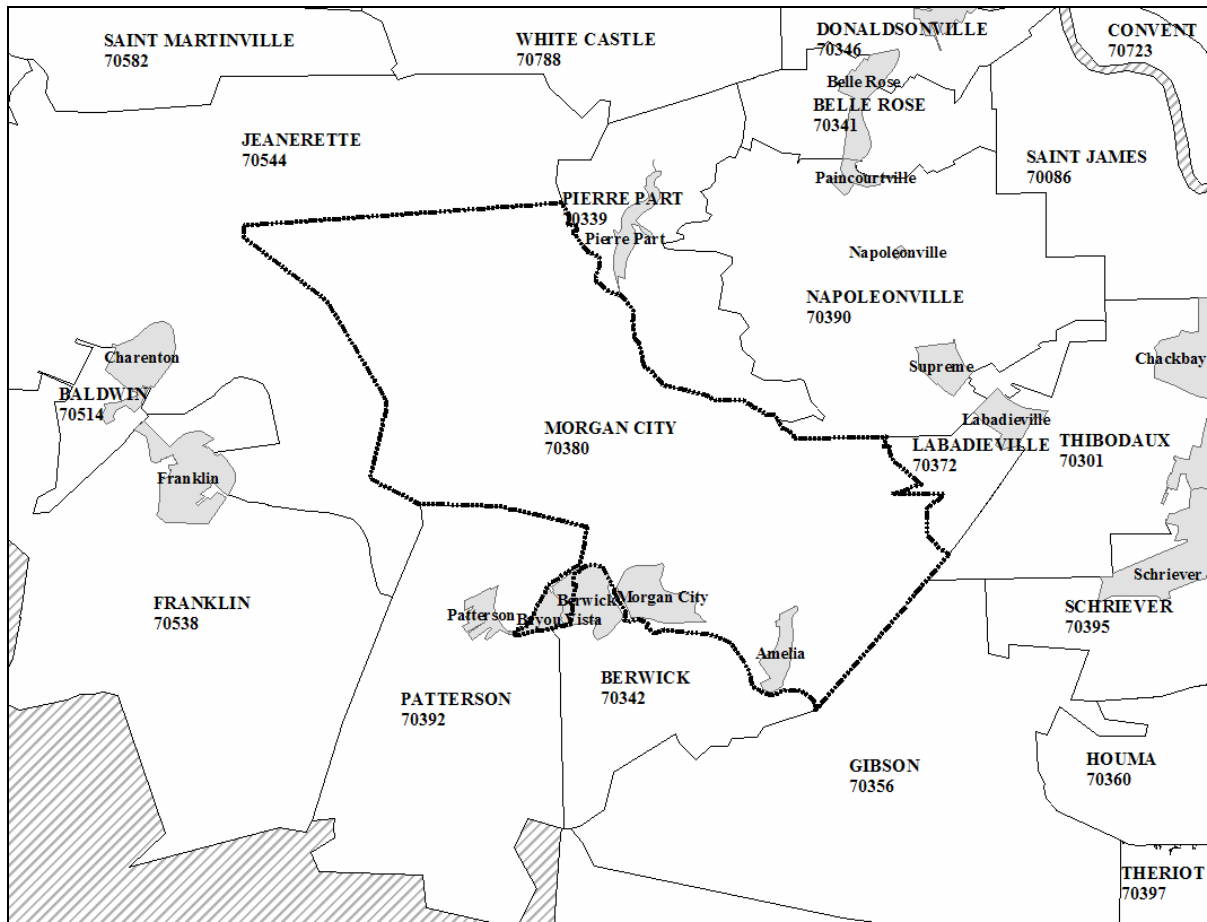


Figure D.57. Morgan City, Louisiana Zip code and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

Morgan City is located in St. Mary’s Parrish and is adjacent to Berwick. The zip code area is considerably larger than the CDP area as seen in Fig. D.57.

Table D.157. Federal Permit Type by Homeport and Zip code in Morgan City, Louisiana for 2002

Type of Permit	Homeport	Zip code
Shrimp	2	2
Commercial King Mackerel	0	0
Commercial Spanish Mackerel	0	0
Reef Fish	0	0
Red Snapper License Class 1	0	0
Red Snapper License Class 2	0	0
Commercial Spiny Lobster	0	0
Charter/Headboat for Coastal Pelagics	0	1
Charter/Headboat for Reef Fish	0	1
Swordfish	0	0
Shark	0	0
Rock Shrimp	0	0
Federal Dealers		0

Table D.157 shows few permits in Morgan City or the zip code area. Two vessels with shrimp permits list Morgan City homeport.

Table D.158 Gear Type by Homeport and Zipcode in Morgan City, Louisiana for 2002
(Source: NMFS 2002)

Gear Type	Homeport	Zipcode
Shrimp Gear	0	0
Fish Trap Gear	0	0
Gill Net Gear	0	0
Reef Fish Bandit	0	0
Handline/Troll	0	0
Rod & Reel	0	0
Surface Longline	0	0
Bottom Longline	0	0
Lobster Trap	0	0
Diver	0	0
Other	0	0

Permitted vessels listed in Table D.158 listed no gear types on their permit applications. Shrimp gear is certainly one of the gear types used, if these permitted vessels are active.

Table D.159. Total Other Employment and Employment in Fishing Related Industry for Morgan City, Louisiana (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	Number Employed
Total Other Employment		12208
Fishing	114100	3
Seafood Canning	311711	0
Seafood Processing	311712	3
Boat Building	336612	3
Fish and Seafoods	422460	10
Fish and Seafood Markets	445220	3
Marinas	713930	3
Total Fishing Employment		25

Most employment from fishing related activity in Morgan City is in the fish and seafood sector with 10 employed and a total of 25 overall employed in fishing activities (Table D.159)

Vulnerability Index Score

The Services sector was the primary growth component for St. Mary's Parrish. Morgan City showed growth in the Services sector from 13.3% in 1980 to 40.3% in 2000. The county had a negative industrial mix with most decreases in the mining sector and the county had a negative competitive share. Morgan City poverty rate was 20.3% for 2000 compared to 23.3% for St. Mary's Parrish.. The average wage was higher than the county average in 2000. The sum of the index score for Morgan City is -1.

National growth component	1
Industrial mix	-1
Competitive share	-1
Poverty component	1
Average wage/salary component	1
Total	-1

3.11 Cameron, Louisiana (70631)

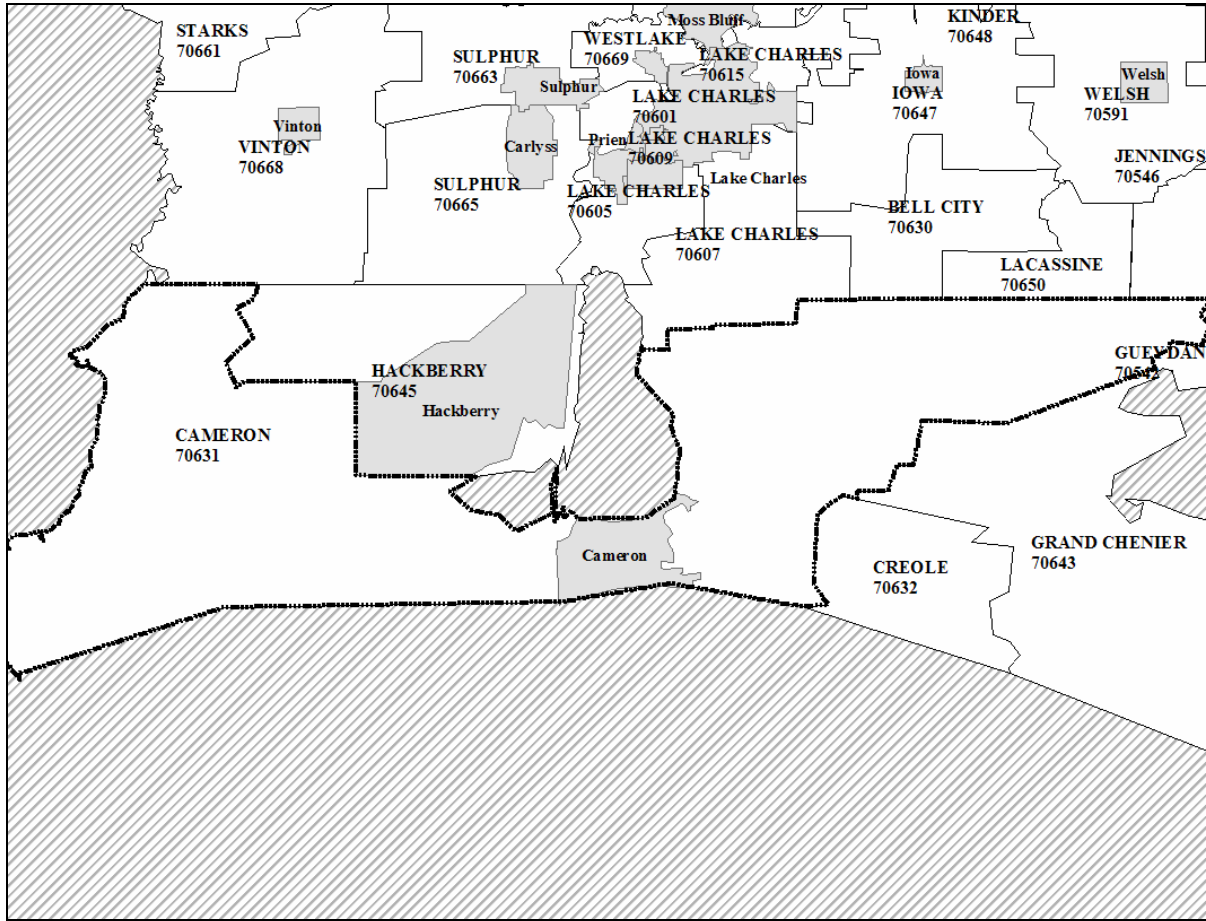


Figure D.45. Cameron, Louisiana Zipcode and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

Table D.160. Federal Permit Type by Homeport and Zipcode in Cameron, Louisiana for 2002

Type of Permit	Homeport	Zipcode
Shrimp	15	15
Commercial King Mackerel	7	6
Commercial Spanish Mackerel	6	4
Reef Fish	7	7
Red Snapper License Class 1	4	3
Red Snapper License Class 2	1	1
Commercial Spiny Lobster	0	0
Charter/Headboat for Coastal Pelagics	5	1
Charter/Headboat for Reef Fish	2	2
Swordfish	0	0
Shark	0	0
Rock Shrimp	0	0
Federal Dealers		5

Table D.160 shows at least 15 vessels homeported in Cameron with federal shrimp permits. About half that many vessels hold either king mackerel or reef fish permits. There are

5 federal dealers in Cameron. The gear types listed in Table D161 show that shrimp and bandit gear are the most common

Table D.161. Gear Type by Homeport and Zipcode in Cameron, Louisiana for 2002
(Source: NMFS 2002)

Gear Type	Homeport	Zipcode
Shrimp Gear	6	6
Fish Trap Gear	0	0
Gill Net Gear	1	1
Reef Fish Bandit	8	8
Handline/Troll	4	3
Rod & Reel	2	1
Surface Longline	0	0
Bottom Longline	0	2
Lobster Trap	0	0
Diver	0	0
Other	0	1

Most employment in fishing related business is in seafood processing for Cameron as shown in Table 162. A small number are employed in seafood canning and fish and seafood for a total of 81 people employed in fishing related activities.

Table D.162. Total Other Employment and Employment in Fishing Related Industry for Cameron, Louisiana (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	Number Employed
Total Other Employment		1388
Fishing	114100	0
Seafood Canning	311711	3
Seafood Processing	311712	75
Boat Building	336612	0
Fish and Seafoods	422460	3
Fish and Seafood Markets	445220	0
Marinas	713930	0
Total Fishing Employment		81

Vulnerability Index Score

The Transportation and Utilities sector was the primary growth component for Cameron Parrish. Cameron showed a loss in the both of these sectors from 1980 to 2000. The county had a negative industrial mix with most decreases in the mining sector and the county had a negative competitive share. Cameron poverty rate was 18.9% for 2000 compared to 12.2% for Cameron Parrish. The average wage was higher than the county average in 2000. The sum of the index score for Cameron is a negative 5.

National growth component	-1
Industrial mix	-1
Competitive share	-1
Poverty component	-1
Average wage/salary component	-1
Total	-5

4 MISSISSIPPI FISHING COMMUNITIES

Mississippi has at least 131 vessels with federal permits counting the still incomplete shrimp vessel permitting at this time. As shown in Table D.163 most of those permitted vessels hold shrimp permits with the next highest for charter permits for either coastal pelagics or reef fish. The other permits held most are king mackerel, Spanish mackerel and reef fish.

Table D.163. Number of Federal Permit Types by Homeport State in Mississippi (NMFS 2002)

Type of Permit	
Shrimp	131
Commercial King Mackerel	10
Commercial Spanish Mackerel	10
Reef Fish	12
Red Snapper License Class 1	5
Red Snapper License Class 2	6
Commercial Spiny Lobster	0
Charter/Head boat for Coastal Pelagics	93
Charter/Head boat for Reef Fish	95
Swordfish	2
Shark	7
Rock Shrimp	4
Federal Dealers	5

The gear type most often listed in Table D.164 is rod & reel gear which is consistent with the permit data suggesting an emphasis upon charter fishing but does not include shrimp vessels. Handline/troll gear is the next most prolific gear type with bandit gear following.

Table D.164. Gear Type by Homeport State in Mississippi (NMFS 2002).

Gear Type	
Shrimp Gear	6
Fish Trap Gear	0
Gill Net Gear	2
Reef Fish Bandit	13
Handline/Troll	45
Rod & Reel	92
Surface Longline	1
Bottom Longline	4
Lobster Trap	1
Diver	15
Other	10

The most valuable fishery for Mississippi is the shrimp fishery as indicated in Table D.153. The menhaden fishery also is a very valuable fishery which does not appear in the permit data but has a value of almost 12 million dollars.

Table D.165. Pounds Landed and Dollar Value by Gear Type for Mississippi (NMFS 2002)

Gear Type	Pounds landed	Dollar Value
Haul Seines, Long	17,139	16,017
Purse Seines, Menhaden	190,168,388	11,922,269
Butterfly Nets	21,188	48,816
Beam Trawls, Chopsticks	3,707	7,540
Otter Trawl Bottom, Fish	5,880,440	366,172
Otter Trawl Bottom, Shrimp	14,859,412	38,270,844
Trawl Bottom, Paired	1,804,689	560,366
Pots And Traps, Crab, Blue	834,749	634,123
Gill Nets, Other	65,572	54,054
Gill Nets, Drift, Runaround	56,959	56,086
Trammel Nets	119,622	120,480
Lines Hand, Other	248,017	429,813
Lines Long Set With Hooks	6,956	6,406
Lines Long, Reef Fish	11,947	8,621
Brail Or Scoop	1,794	1,493
Cast Nets	62,886	41,838
Spears	31,950	56,706
Dredge Oyster, Common	3,335,736	5,743,470
Tongs and Grabs, Oyster	212,504	369,833

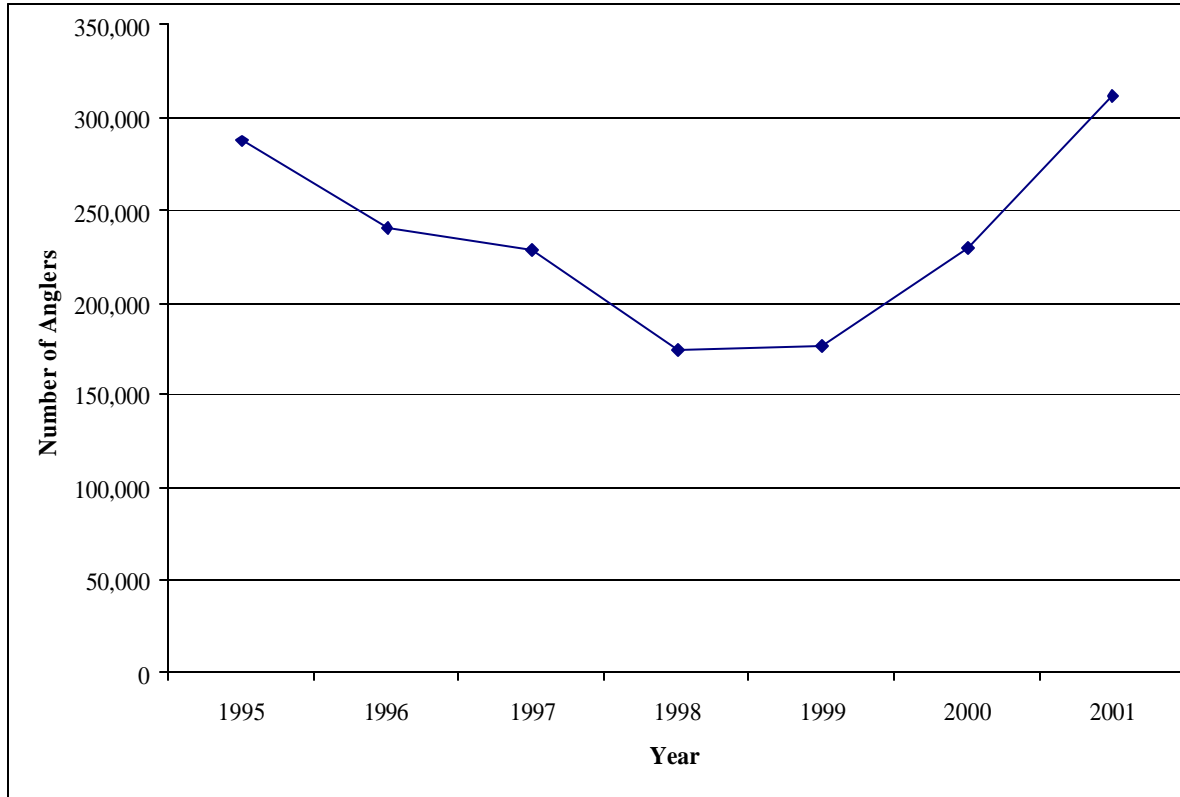


Figure D.46 Marine Recreational Anglers in Mississippi 1995-2001 (NMFS 2002)

The number of marine recreational anglers Mississippi has returned to 1995 levels in 2001 with over 300,000 participants. There was drop in participants in 1998 when fewer than 200,000 fishermen were estimated (Figure D.46).

The number of trips in 1998 was 828,000 and has risen since 1999 to over 1.2 million according to Figure D.47. In 1998 most of those trips were in inland waters with 79% while 3% were in state waters. As far as trips taken in federal waters only 18% were taken in 1998.

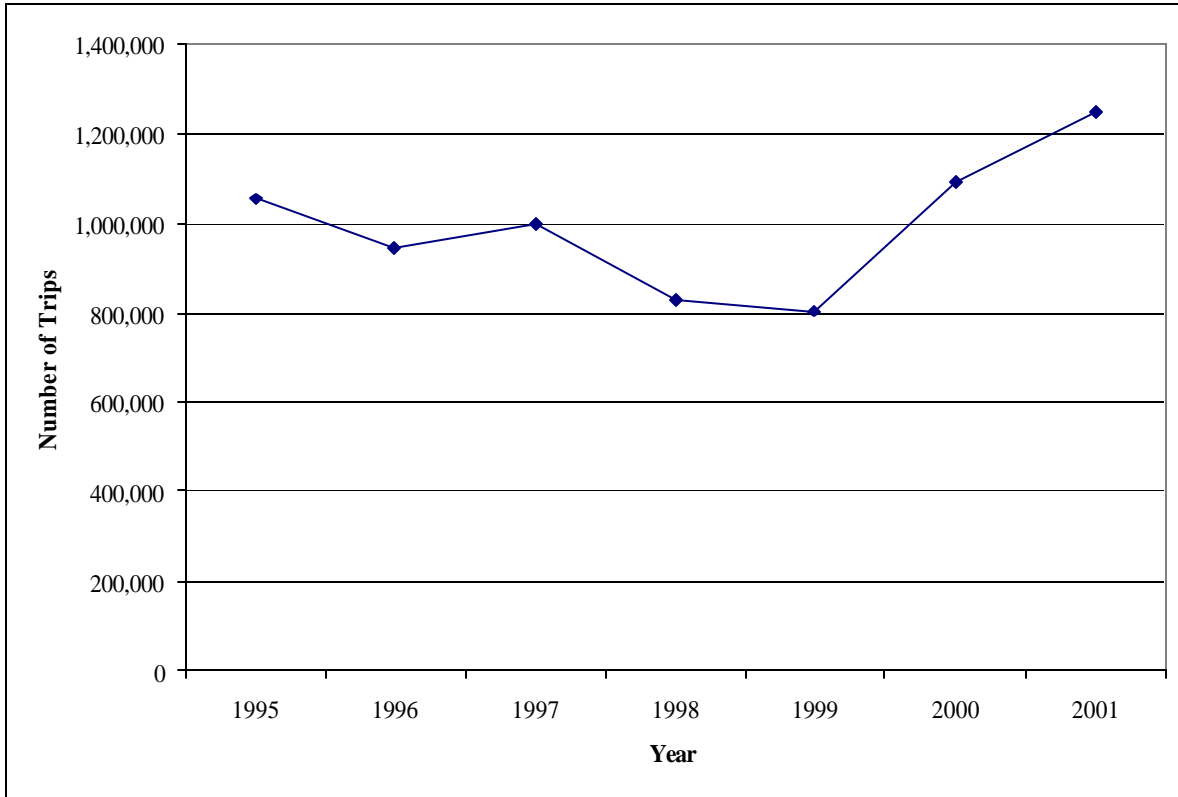


Figure D.47 Marine Recreational Fishing Trips in Mississippi 1995-2001 (NMFS 2002)

According to the MRFSS most fishing trips in 1998 were by private/rental boat with 57% of all trips being taken. Thirty-nine percent were through shore mode and 4% were on charter or party boats. In 2001, the mode of fishing has changed little, except that fewer charter and party boats trips were made as shown in Figure D.48.

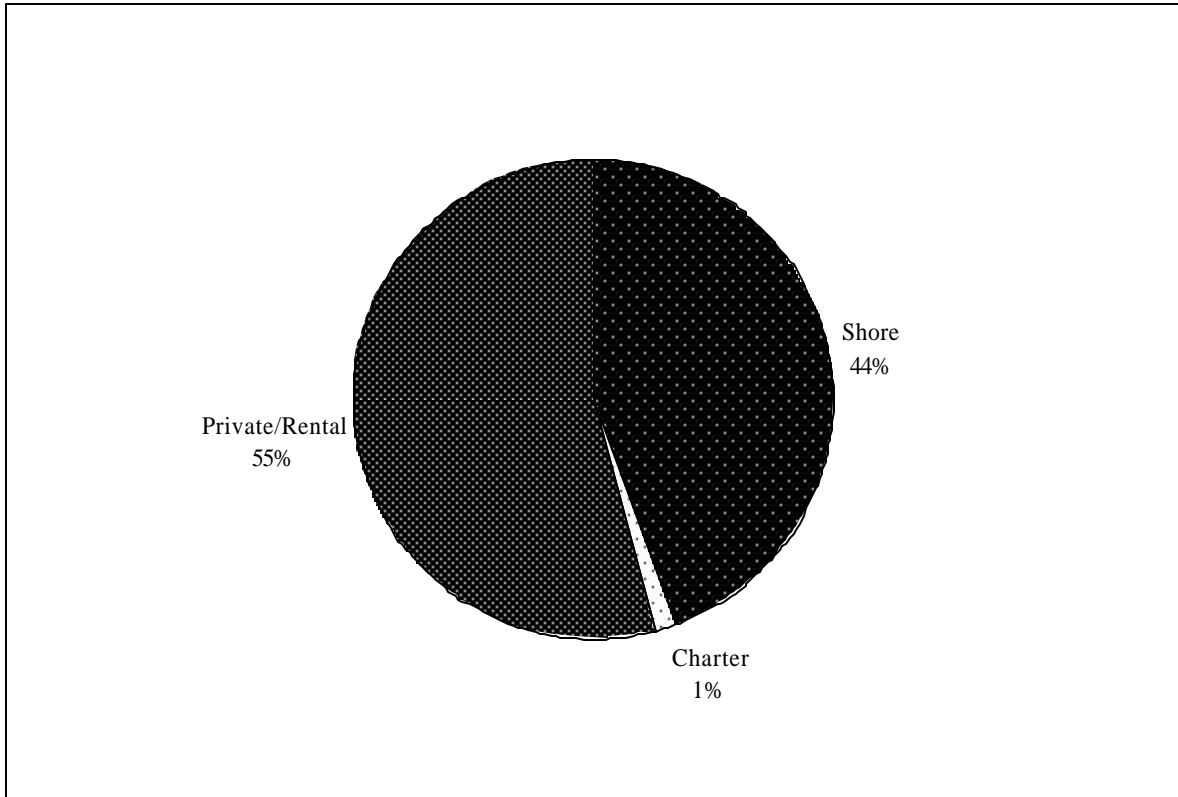


Figure D.48 Marine Recreational Fishing Trips by Mode in Mississippi 2001 (NMFS 2002)

While the communities listed below have been selected to represent those communities from this state that may be impacted by fisheries regulation, others may meet future guidelines that are not yet available to define fishing communities. For that reason the following communities are included as possible fishing communities that were excluded but may require some consideration as communities that could potentially be impacted by council action, but were not included within this initial exercise. This list of communities may be commonly considered fishing communities but were not included in the document due to a variety of reason. The list consists of the following communities: Bay St. Louis, Pass Christian, Moss Point, Long Beach, and Ocean Springs.

Pascagoula, Mississippi (39567, 39581)

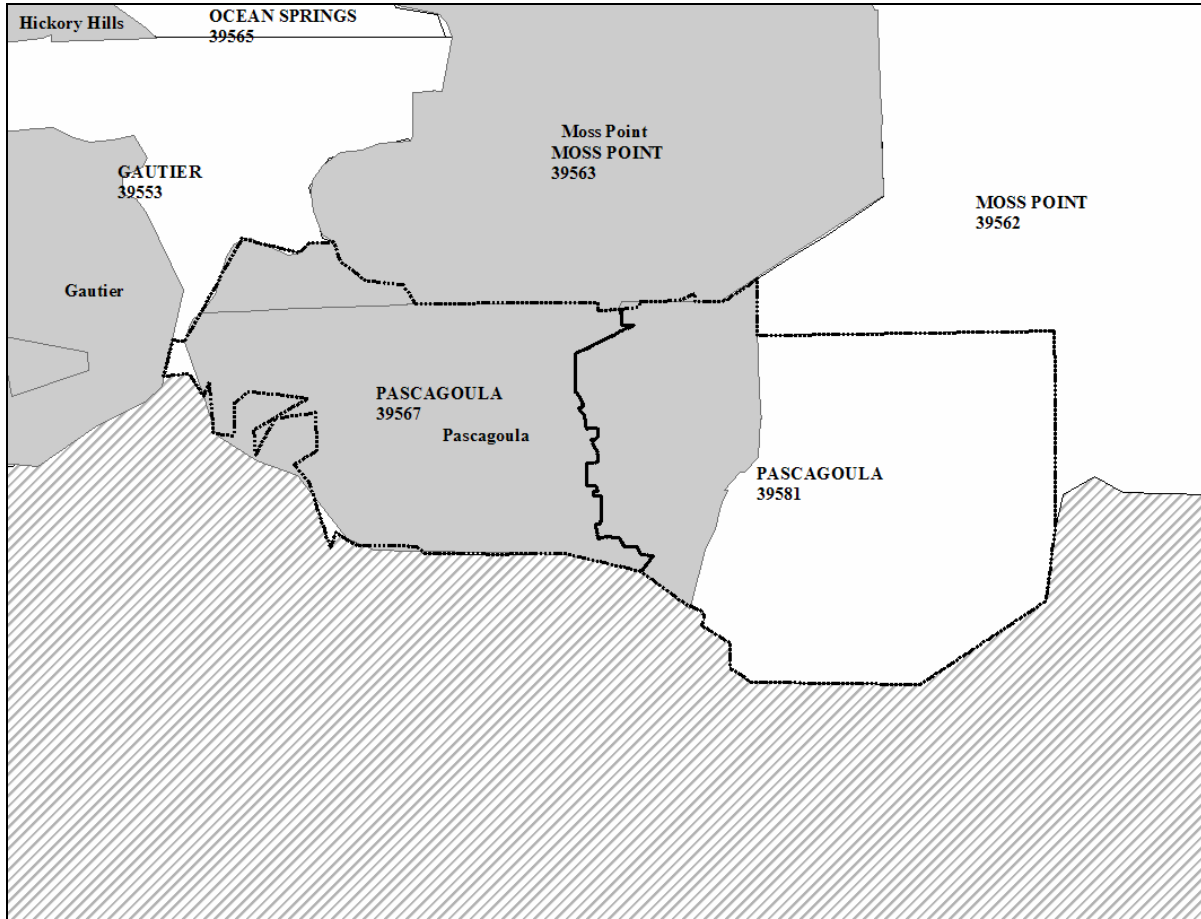


Figure D.49. Pascagoula, Mississippi Zipcode and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

Pascagoula is in Jackson County just west of the Alabama state line. The zip code boundaries for Pascagoula extend slightly to the east of the CDP (Figure D.49)

Table D.166. Federal Permit Type by Homeport and Zipcode in Pascagoula, Mississippi for 2002

Type of Permit	Homeport	Zipcode
Shrimp	5	5
Commercial King Mackerel	9	7
Commercial Spanish Mackerel	8	7
Reef Fish	10	8
Red Snapper License Class 1	4	3
Red Snapper License Class 2	5	4
Commercial Spiny Lobster	0	0
Charter/Head boat for Coastal Pelagics	3	0
Charter/Head boat for Reef Fish	3	0
Swordfish	2	1
Shark	6	5
Rock Shrimp	3	3
Federal Dealers		3

Pascagoula has 17 vessels which homeport there and slightly fewer within its zip code boundaries as shown in Table D.166. Most of those vessels have a reef fish permit in addition to either king mackerel or Spanish. There are 5 red snapper class 2 permits and 4 class 1 and 3 vessels have either coastal pelagic or reef fish charter permits. There are 5 vessels at this time listing shrimp permits.

Table D.167. Gear Type by Homeport and Zipcode in Pascagoula, Mississippi for 2002 (Source: NMFS 2002).

Gear Type	Homeport	Zipcode
Shrimp Gear	4	3
Fish Trap Gear	0	0
Gill Net Gear	1	1
Reef Fish Bandit	10	8
Handline/Troll	10	7
Rod & Reel	13	8
Surface Longline	0	0
Bottom Longline	1	0
Lobster Trap	0	0
Diver	0	1
Other	0	4
Federal Dealers		0

Rod & reel gear is the most often listed while handline/troll gear and bandit gear are also prominent with 10 vessels identified with each of those gear types (Table D.167). There are 4 vessels with shrimp gear on board.

Table D.168. Total Other Employment and Employment in Fishing Related Industry for Pascagoula, Mississippi (Zipcode Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	4.1.1.1 Number Employed
Total Other Employment		14933
Fishing	114100	6
Seafood Canning	311711	7
Seafood Processing	311712	90
Boat Building	336612	15
Fish and Seafood	422460	38
Fish and Seafood Markets	445220	3
Marinas	713930	0
Total Fishing Employment		159

Employment in the seafood processing sector provides the bulk of fishing sector employment as indicated by Table D.168. The total of 159 for fishing employment is rounded out with another 38 in fish and seafood and 15 in boat building. Seven more in seafood canning, 6 in fishing and 3 in fish and seafood markets make up the total.

Vulnerability Index Score

The Manufacturing sector was the primary growth component for Jackson County. Pascagoula showed a loss in the Manufacturing sector from 31.0% in 1980 to 21.5% in 2000. The county had a negative industrial mix with most decreases in the manufacturing sector and the county had a negative competitive share. Pascagoula poverty rate was 19.6% for 2000 compared to 12.6% for Jackson County. The average wage was higher than the county average in 2000. The sum of the index score for Pascagoula is negative 5.

National growth component	-1
Industrial mix	-1
Competitive share	-1
Poverty component	-1
Average wage/salary component	-1
Total	-5

4.2 Gautier, Mississippi (39553)

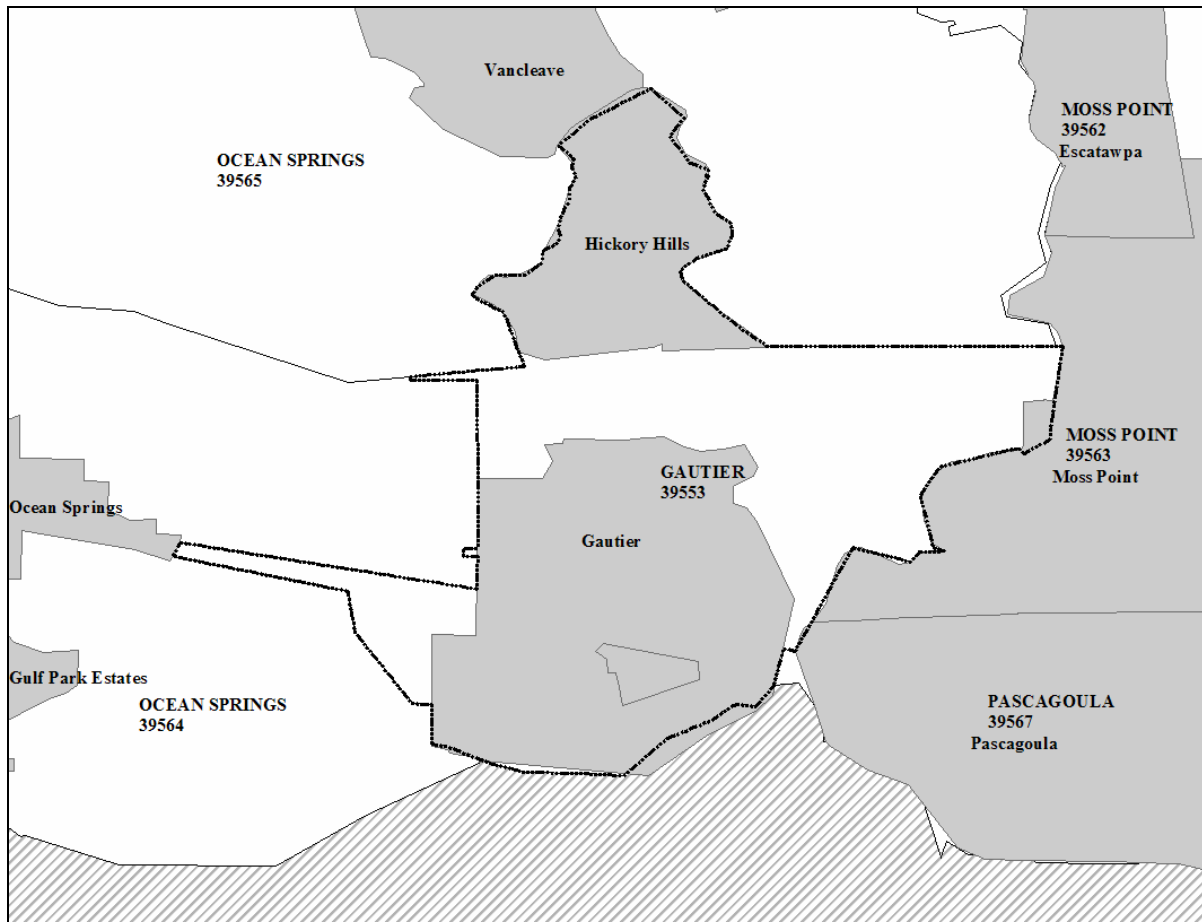


Figure D.50. Gautier, Mississippi Zip code and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

Gautier is also located in Jackson County, just west of Pascagoula. That Gautier zip code boundary also includes the Hickory Hills CDP in addition to that of Gautier.

Table D.169 Federal Permit Type by Homeport and Zip code in Gautier, Mississippi for 2002

Type of Permit	Homeport	Zip code
Shrimp	2	2
Commercial King Mackerel	0	0
Commercial Spanish Mackerel	0	0
Reef Fish	0	0
Red Snapper License Class 1	0	0
Red Snapper License Class 2	0	0
Commercial Spiny Lobster	0	0
Charter/Head boat for Coastal Pelagics	1	2
Charter/Head boat for Reef Fish	1	2
Swordfish	0	0
Shark	0	0
Rock Shrimp	0	1
Federal Dealers		0

Gautier has few vessels either home porting or with permits in its zip code boundary. There seems to be 2 vessel with shrimp permits so far in the homeport area and 2 in the zip code boundary with charter permits for coastal pelagics and reef fish (Table D.169).

Table D.170. Gear Type by Homeport and Zip code in Gautier, Mississippi for 2002
(Source: NMFS 2002)

Gear Type	Homeport	Zip code
Shrimp Gear	0	1
Fish Trap Gear	0	0
Gill Net Gear	0	0
Reef Fish Bandit	0	0
Handline/Troll	0	1
Rod & Reel	1	2
Surface Longline	0	0
Bottom Longline	0	0
Lobster Trap	0	0
Diver	0	1
Other	0	0

The gear types represented in Table D.170 are rod & reel by the one vessel that homeports in Gautier and shrimp gear, handline/troll gear and dive gear by the other vessel within the zip code area.

Table D.171. Total Other Employment and Employment in Fishing Related Industry for Gautier, Mississippi (Zip code Business Patterns, U.S. Census Bureau 1998).

Category	NAIC Code	Number Employed
Total Other Employment		3840
Fishing	114100	3
Seafood Canning	311711	0
Seafood Processing	311712	0
Boat Building	336612	0
Fish and Seafood	422460	3
Fish and Seafood Markets	445220	0
Marinas	713930	6
Total Fishing Employment		12

Employment in the fishing sector is minimal with 12 total, with most of that in the marinas sector according to Table D.171. There are three more in fishing and 3 in fish and seafood round out the total.

Vulnerability Index Score

The Manufacturing sector was the primary growth component for Jackson County. Gautier showed a loss in the Manufacturing sector from 31.0% in 1980 to 21.0% in 2000. The county had a negative industrial mix with most decreases in the manufacturing sector and the county had a negative competitive share. Gautier poverty rate was 17.3% for 2000 compared to 12.6% for Jackson County. The average wage was higher than the county average in 2000. The sum of the index score for Gautier is negative 3.

National growth component	-1
Industrial mix	-1
Competitive share	-1
Poverty component	-1
Average wage/salary component	1
Total	-3

4.3 Biloxi, Mississippi (39530, 39531, 39532, 39534)

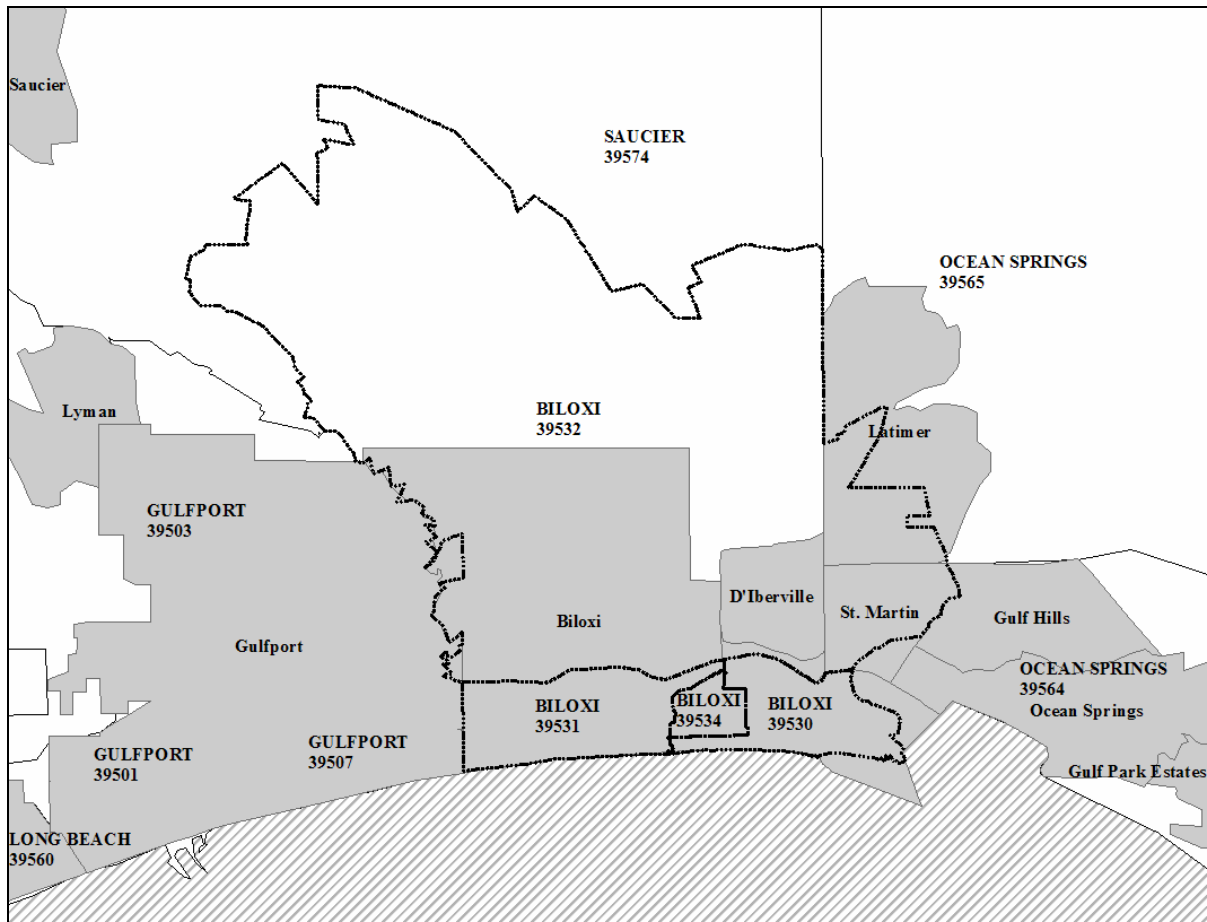


Figure D.51. Biloxi, Mississippi Zipcode and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

Biloxi is in Harrison County adjacent to Gulfport. The Biloxi zip code boundaries cut across a number of other CDPs as shown in Figure D.48. Other CDPs included are D'Iberville, St. Martin and Latimer.

Table D.172. Federal Permit Type by Homeport and Zipcode in Biloxi, Mississippi for 2002

Type of Permit	Homeport	Zipcode
Commercial King Mackerel	0	1
Commercial Spanish Mackerel	0	0
Reef Fish	1	1
Red Snapper License Class 1	0	0
Red Snapper License Class 2	1	1
Commercial Spiny Lobster	0	0
Charter/Head boat for Coastal Pelagics	64	41
Charter/Head boat for Reef Fish	65	43
Swordfish	0	0
Shark	1	2
Rock Shrimp	1	5
Federal Dealers		2

Biloxi has a large charter fleet as shown in Table D.172 with 65 vessels holding reef fish and 64 vessels with coastal pelagic charter permits out of a total of 69 vessels that call it homeport.

Table D.173. Gear Type by Homeport and Zipcode in Biloxi, Mississippi for 2002
(Source: NMFS 2002)

Gear Type	Homeport	Zipcode
Shrimp Gear	2	2
Fish Trap Gear	0	0
Gill Net Gear	0	0
Reef Fish Bandit	0	1
Handline/Troll	26	20
Rod & Reel	60	39
Surface Longline	0	0
Bottom Longline	1	2
Lobster Trap	0	0
Diver	7	6
Other	3	3

The gear types are again consistent with the charter fishery with all but 9 vessels reporting rod & reel gear. Twenty-six vessels also reported having handline/troll gear on board.

Table D.174. Total Other Employment and Employment in Fishing Related Industry for Biloxi, Mississippi (Zipcode Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	Number Employed
Total Other Employment		30725
Fishing	114100	6
Seafood Canning	311711	75
Seafood Processing	311712	258
Boat Building	336612	0
Fish and Seafood	422460	66
Fish and Seafood Markets	445220	0
Marinas	713930	0
Total Fishing Employment		405

Biloxi also has a large fishing employment sector with 258 in seafood processing. Another 66 in fish and seafood and 75 in seafood canning make up the bulk of the sector employment according to Table D.174. There were 6 individuals in fishing for a total of 405.

Vulnerability Index Score

The Services sector was the primary growth component for Harrison County. Biloxi showed growth in the Services sector from 24.3% in 1980 to 53,5% in 2000. The county had a negative industrial mix with most decreases in the government sector and the county had a negative competitive share. Biloxi poverty rate was 14.0% for 2000 compared to 14.0% for Harrison County. The average wage was lower than the county average in 1990. The sum of the index score for Biloxi is a zero.

National growth component	1
Industrial mix	-1
Competitive share	1
Poverty component	0
Average wage/salary component	-1
Total	0

4.4 Gulfport, Mississippi (39501, 39503, 39507)

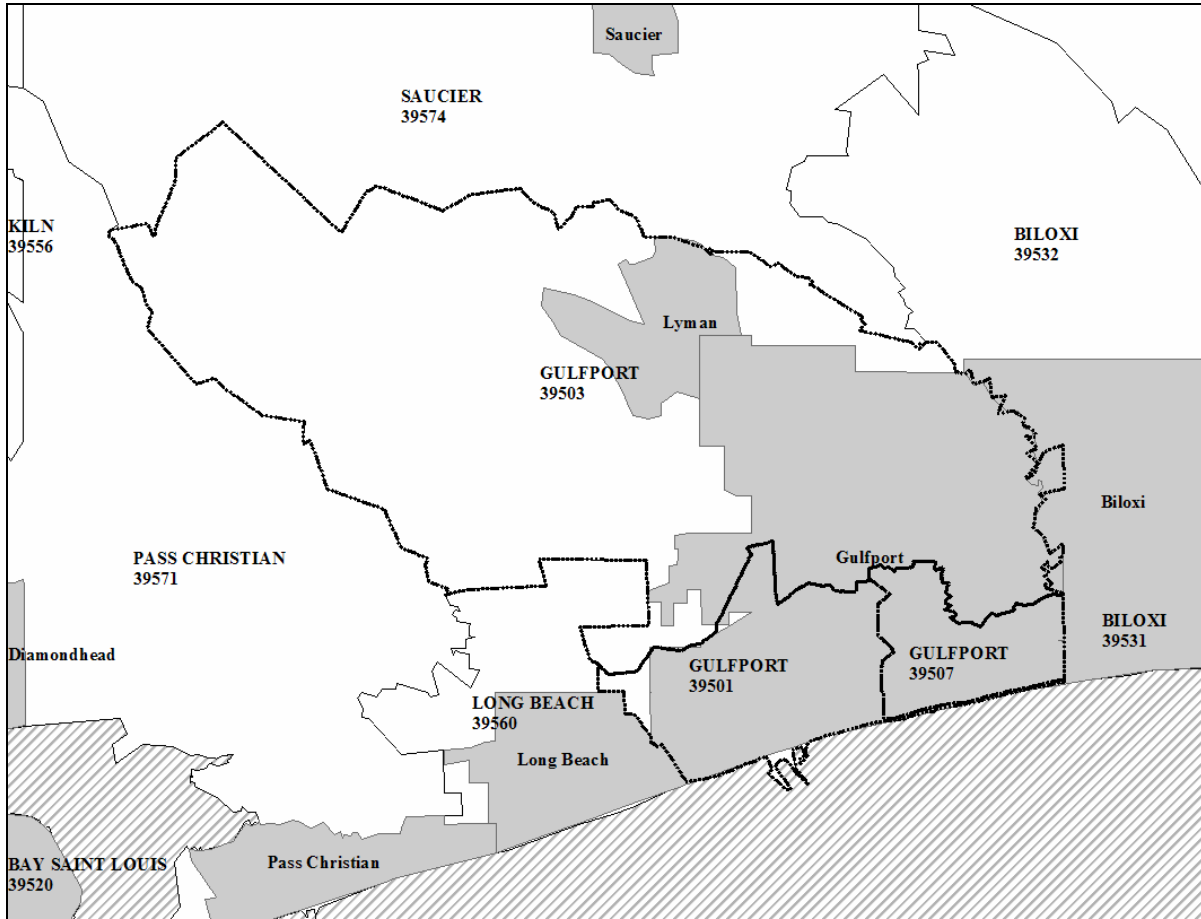


Figure D.52. Gulfport, Mississippi Zipcode and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

Gulfport is in Harrison County adjacent to Biloxi. The Gulfport zip code boundaries extend to the northwest of the CDP and include the CDP of Lyman (Figure D.52).

Table D.175. Federal Permit Type by Homeport and Zipcode in Gulfport, Mississippi for 2002

Type of Permit	Homeport	Zipcode
Shrimp	7	7
Commercial King Mackerel	0	0
Commercial Spanish Mackerel	1	1
Reef Fish	0	0
Red Snapper License Class 1	0	0
Red Snapper License Class 2	0	0
Commercial Spiny Lobster	0	0
Charter/Head boat for Coastal Pelagics	9	5
Charter/Head boat for Reef Fish	9	5
Swordfish	0	0
Shark	0	0
Rock Shrimp	0	0
Federal Dealers		0

Of the 10 vessels that call Gulfport homeport, 9 have charter permits for both coastal pelagics and reef fish and 7 have shrimp permits. The only other permit held is by one vessel which holds a Spanish mackerel permit as indicated by Table D.175.

Table D.176. Gear Type by Homeport and Zipcode in Gulfport, Mississippi for 2002
(Source: NMFS 2002)

Gear Type	Homeport	Zipcode
Shrimp Gear	0	0
Fish Trap Gear	0	0
Gill Net Gear	1	1
Reef Fish Bandit	0	0
Handline/Troll	3	3
Rod & Reel	5	4
Surface Longline	0	0
Bottom Longline	0	0
Lobster Trap	0	0
Diver	1	1
Other	1	1

The gear types listed in Table D.164 are consistent with the permits as rod & reel gear and handline/troll are the types most often reported (Table D.176).

There is relatively little fishing employment for the zip code areas of Gulfport as reported in Table D.177 with a total of 6 in the fishing sector. Three of those were in fish and seafood and three in fish and seafood markets.

Table D.177. Total Other Employment and Employment in Fishing Related Industry for Gulfport, Mississippi (Zipcode Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	Number Employed
Total Other Employment		
Fishing	114100	0
Seafood Canning	311711	0
Seafood Processing	311712	0
Boat Building	336612	0
Fish and Seafood	422460	3
Fish and Seafood Markets	445220	3
Marinas	713930	0
Total Fishing Employment		6

Vulnerability Index Score

The Services sector was the primary growth component for Harrison County. Gulfport showed growth in the Services sector from 21.3% in 1980 to 51.0% in 2000. The county had a negative industrial mix with most decreases in the government sector and the county had a negative competitive share. Gulfport poverty rate was 16.9% for 2000 compared to 18.1% for Harrison County. The average wage was higher than the county average in 2000. The sum of the index score for Gulfport is a positive one.

National growth component	1
Industrial mix	-1
Competitive share	-1
Poverty component	1
Average wage/salary component	1
Total	1

5 TEXAS FISHING COMMUNITIES

There are over 624 federally permitted vessels those homeports in Texas. This again includes those shrimp vessels that have applied for a federal permit for shrimp up to this time. By far the majority of those vessels with federal permits listed in Table D.178 are shrimp vessels with charter vessels next holding both coastal pelagic or reef fish permits with a total of 306 and 305 vessel permits respectively.

Table D.178. Number of Federal Permit Types by Homeport State in Texas (NMFS 2002)

Type of Permit	Number
Shrimp	624
Commercial King Mackerel	34
Commercial Spanish Mackerel	12
Reef Fish	72
Red Snapper License Class 1	39
Red Snapper License Class 2	25
Commercial Spiny Lobster	2
Charter/Head boat for Coastal Pelagics	306
Charter/Head boat for Reef Fish	305
Swordfish	12
Shark	19
Rock Shrimp	18
Federal Dealers	24

The gear types are consistent with the permit data as rod & reel gear is the type most often reported. Many other gear types are reported in Table D.179 with handline/troll, bandit and dive gear the next most frequently reported.

Table D.179. Gear Type by Homeport State in Texas (NMFS 2002).

Gear Type	Number
Shrimp Gear	30
Fish Trap Gear	1
Gill Net Gear	0
Reef Fish Bandit	67
Handline/Troll	86
Rod & Reel	306
Surface Longline	13
Bottom Longline	32
Lobster Trap	1
Diver	67
Other	10

As with other Gulf States, the most valuable fishery is the shrimp fishery as over 262 million dollars worth of product are landed with shrimp gear (Table D.180).

Table D.180. Pounds Landed and Dollar Value by Gear Type for Texas (NMFS 2002)

Gear Type	Pounds landed	Dollar Value
Butterfly Nets	618,331	1,010,216
Otter Trawl Bottom, Shrimp	91,264,743	262,435,998
Combined Gears	18,634,987	30,163,084

5.1 Port Arthur, Texas (77640, 77642)

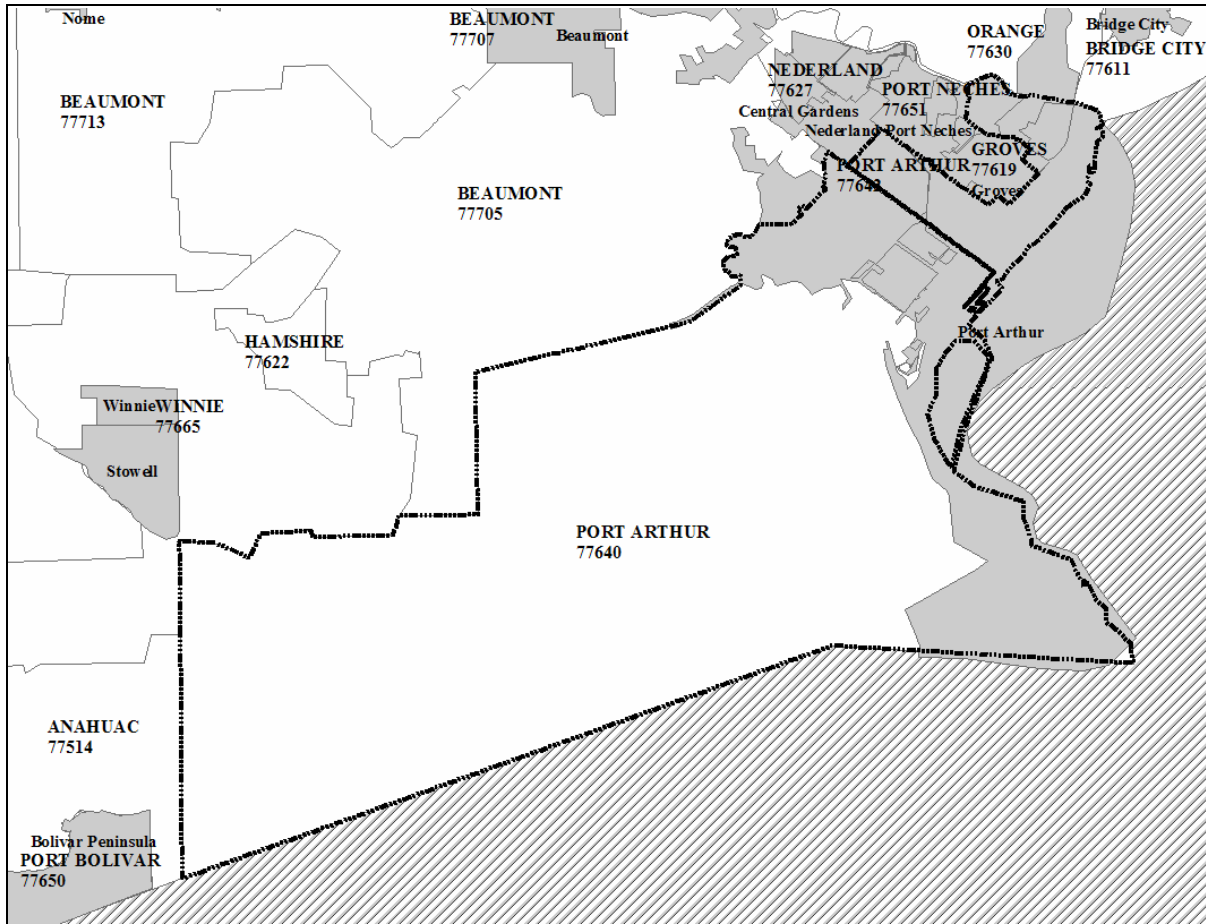


Figure D.53. Port Arthur, Texas Zipcode and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

Port Arthur is in the southeastern corner of Jefferson County on the Texas-Louisiana border. The zip code boundaries extend to the southwest of the Port Arthur CDP as shown in Figure D.50.

Table D.181. Federal Permit Type by Homeport and Zipcode in Port Arthur for 2002

Type of Permit	Homeport	Zipcode
Shrimp	35	35
Commercial King Mackerel	0	0
Commercial Spanish Mackerel	0	0
Reef Fish	4	5
Red Snapper License Class 1	2	1
Red Snapper License Class 2	0	1
Commercial Spiny Lobster	0	0
Charter/Head boat for Coastal Pelagics	3	0
Charter/Head boat for Reef Fish	5	1
Swordfish	0	0
Shark	0	0
Rock Shrimp	1	1
Federal Dealers		0

Port Arthur has over 35 vessels which homeport there. According to Table D.181 the majority hold shrimp permits and of those vessels (5) hold reef fish charter permits. Another 4 vessels hold reef fish commercial permits and 3 have charter permits for coastal pelagic.

Table D.182. Gear Type by Homeport and Zipcode in Port Arthur, Texas for 2002
(Source: NMFS 2002)

Gear Type	Homeport	Zipcode
Shrimp Gear	1	1
Fish Trap Gear	0	0
Gill Net Gear	0	0
Reef Fish Bandit	2	4
Handline/Troll	0	1
Rod & Reel	6	4
Surface Longline	0	0
Bottom Longline	0	0
Lobster Trap	0	0
Diver	2	0
Other	0	0

The most common gear type in Table D.182 is consistent with permit data as rod & reel gear has 6 vessels listed. Other gear types are bandit and dive gear, each with 2 vessels.

Table D.183. Total Other Employment and Employment in Fishing Related Industry for Port Arthur, Texas (Zipcode Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	Number Employed
Total Other Employment		20414
Fishing	114100	0
Seafood Canning	311711	0
Seafood Processing	311712	75
Boat Building	336612	0
Fish and Seafood	422460	7
Fish and Seafood Markets	445220	7
Marinas	713930	3
Total Fishing Employment		92

Port Arthur does have employment in the fishing sector with 75 persons in the seafood processing according to Table D.183. The fish and seafood and fish and seafood market sectors have 7 each. Marinas employ 3 to round out the total fishing sector employment at 92.

Vulnerability Index Score

The Services sector was the primary growth component for Jefferson County. Port Arthur showed growth in the Services sector from 17.6% in 1980 to 48.1% in 2000. The county had a positive industrial mix with most increases in the construction sector and the county had a positive competitive share. Port Arthur poverty rate was 24.8% for 2000 compared to 16.3% for Jefferson County. The average wage was lower than the county average in 2000. The sum of the index score for Port Arthur is a positive one.

National growth component	1
Industrial mix	1
Competitive share	1
Poverty component	-1
Average wage/salary component	-1
Total	1

5.2 Galveston, Texas (77550, 77551, 77554)

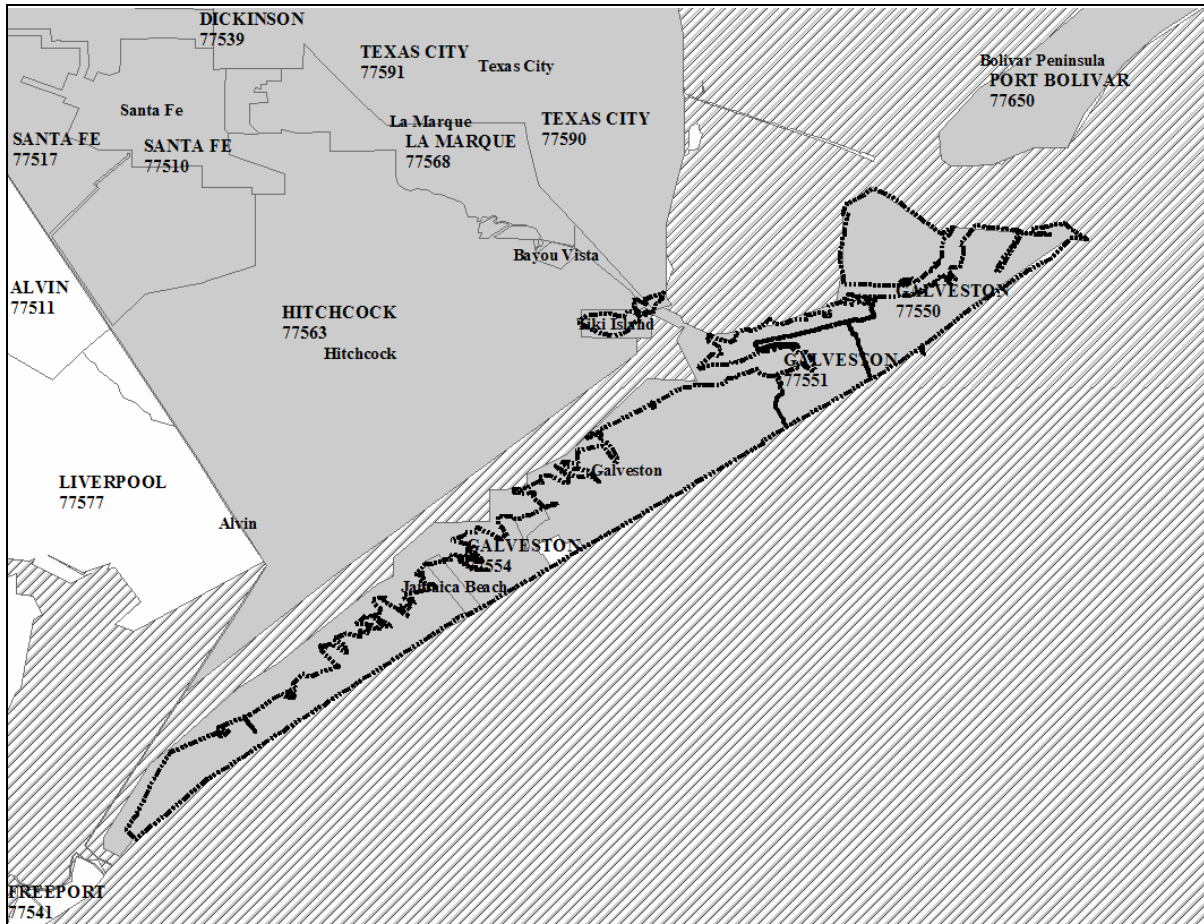


Figure D.54. Galveston, Texas Zipcode and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

Galveston sits at the mouth of Galveston Bay in Galveston County. The Galveston zip code boundaries include two other CDPs, Jamaica Beach and Tiki Island, as shown in Figure D.54.

Table D.184. Federal Permit Type by Homeport and Zipcode in Galveston, Texas for 2002

Type of Permit	Homeport	Zipcode
Shrimp	3	3
Commercial King Mackerel	7	2
Commercial Spanish Mackerel	2	0
Reef Fish	10	5
Red Snapper License Class 1	8	3
Red Snapper License Class 2	2	2
Commercial Spiny Lobster	0	0
Charter/Head boat for Coastal Pelagics	50	18
Charter/Head boat for Reef Fish	50	18
Swordfish	1	0
Shark	4	1
Rock Shrimp	0	0
Federal Dealers		5

Galveston has a total of 59 permitted vessels which call it homeport. By far, the majority of those vessels have charter permits for coastal pelagics (50) and reef fish (50). There are far more vessels which call Galveston homeport than reside within the zip code boundaries as indicated in Table D.184. Other permits to note are 10 vessels with reef fish permits and 8 with red snapper class 1 permits. There are also 5 federally permitted dealers in the Galveston zip code boundaries. At this time only 3 vessels have applied for shrimp permits.

Table D.185. Gear Type by Homeport and Zipcode in Galveston, Texas for 2002
(Source: NMFS 2002)

Gear Type	Homeport	Zipcode
Shrimp Gear	1	0
Fish Trap Gear	0	0
Gill Net Gear	0	0
Reef Fish Bandit	6	4
Handline/Troll	11	3
Rod & Reel	50	18
Surface Longline	1	1
Bottom Longline	7	3
Lobster Trap	0	0
Diver	9	1
Other	2	0

Most vessels in the Galveston homeport have rod & reel gear as expected according to Table D.185it gear with 6 vessels and 9 vessels with dive gear.

Table D.186. Total Other Employment and Employment in Fishing Related Industry for Galveston, Texas (Zipcode Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	Number Employed
Total Other Employment		20960
Fishing	114100	0
Seafood Canning	311711	0
Seafood Processing	311712	0
Boat Building	336612	15
Fish and Seafood	422460	3
Fish and Seafood Markets	445220	0
Marinas	713930	122
Total Fishing Employment		140

The majority of fishing sector employment is in marinas with 122 persons employed according to Table D.186. There are 15 more employed in boat building and 3 in fish and seafood for a total of 140 persons employed in the fishing sector compared to 20,960 in other employment.

Vulnerability Index Score

The Services sector was the primary growth component for Galveston County. Galveston showed growth in the Services sector from 31.3% in 1980 to 61.9% in 2000. The county had a positive industrial mix with most increases in the construction sector and the county had a positive competitive share. Galveston poverty rate was 21.4% for 2000 compared to 13.0% for Galveston County. The average wage was lower than the county average in 2000. The sum of the index score for Galveston is a positive one.

National growth component	1
Industrial mix	1
Competitive share	1
Poverty component	-1
Average wage/salary component	-1
Total	1

5.3 Freeport, Texas (77541)

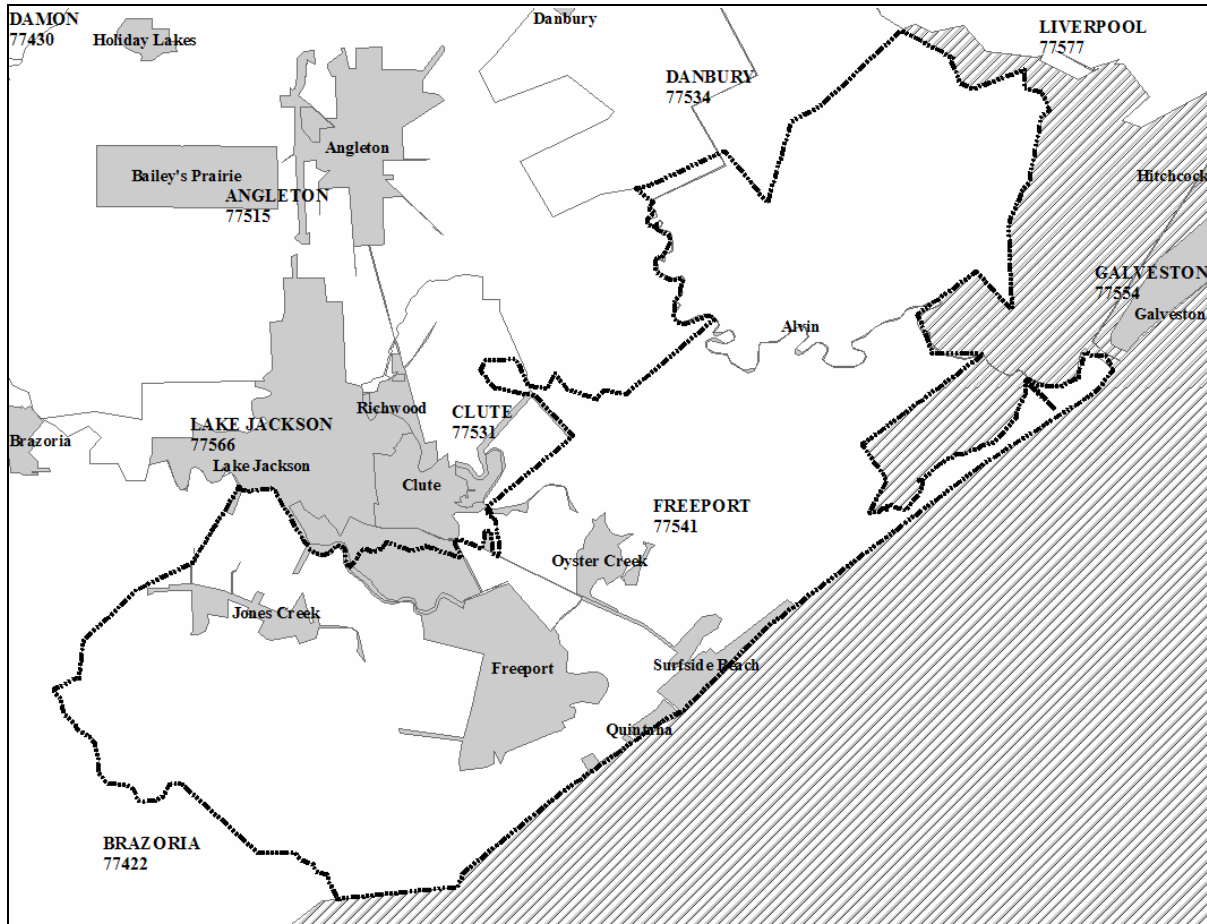


Figure D.55. Freeport, Texas Zipcode and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

Freeport is located in Brazoria County to the Southwest of Galveston. The zip code boundary includes the CDPs for Jones Creek, Oyster Creek, Quintana and Surfside Beach (Figure D.55).

Table D.187. Federal Permit Type by Homeport and Zipcode in Freeport, Texas for 2002

Type of Permit	Homeport	Zipcode
Shrimp	70	70
Commercial King Mackerel	1	3
Commercial Spanish Mackerel	0	0
Reef Fish	7	6
Red Snapper License Class 1	4	1
Red Snapper License Class 2	3	5
Commercial Spiny Lobster	0	0
Charter/Head boat for Coastal Pelagics	48	17
Charter/Head boat for Reef Fish	47	17
Swordfish	1	0
Shark	1	0
Rock Shrimp	1	2
Federal Dealers		1

In Table D.187 there are 70 permits for shrimp listed as of this time. As for the other vessels permitted, the majority of permits are listed under charter for coastal pelagics (48) and reef fish (47) with a total of over 70 calling Freeport their homeport.

Table D.188. Gear Type by Homeport and Zipcode in Freeport, Texas for 2002
(Source: NMFS 2002)

Gear Type	Homeport	Zipcode
Shrimp Gear	1	2
Fish Trap Gear	0	0
Gill Net Gear	0	0
Reef Fish Bandit	8	6
Handline/Troll	8	6
Rod & Reel	43	16
Surface Longline	2	1
Bottom Longline	2	1
Lobster Trap	1	0
Diver	9	2
Other	1	0

Consistent with the permit distribution, most vessels report rod & reel gear in Table D.188. There are 9 vessels which claim dive gear and 8 list bandit and handline/troll gear each.

Table D.189. Total Other Employment and Employment in Fishing Related Industry for Freeport, Texas (Zipcode Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	Number Employed
Total Other Employment		10180
Fishing	114100	3
Seafood Canning	311711	0
Seafood Processing	311712	0
Boat Building	336612	3
Fish and Seafood	422460	35
Fish and Seafood Markets	445220	0
Marinas	713930	42
Total Fishing Employment		83

In Table D.189, fishing sector employment is primarily in two sectors, fish and seafood (35) and marinas (42). There are 3 persons estimated to be employed in fishing and boat building for a total fishing sector employment of 83.

Vulnerability Index Score

The Services sector was the primary growth component for Brazoria County. Freeport showed growth in the Services sector from 11.3% in 1980 to 32.5% in 2000. The county had a negative industrial mix with most decreases in the manufacturing sector and the county had a negative competitive share. Freeport poverty rate was 22.8% for 2000 compared to 9.7% for Brazoria County. The average wage was lower than the county average in 1990. The sum of the index score for Freeport is a negative three.

National growth component	1
Industrial mix	-1
Competitive share	-1
Poverty component	-1
Average wage/salary component	-1
Total	-3

5.4 Palacios, Texas (77465)

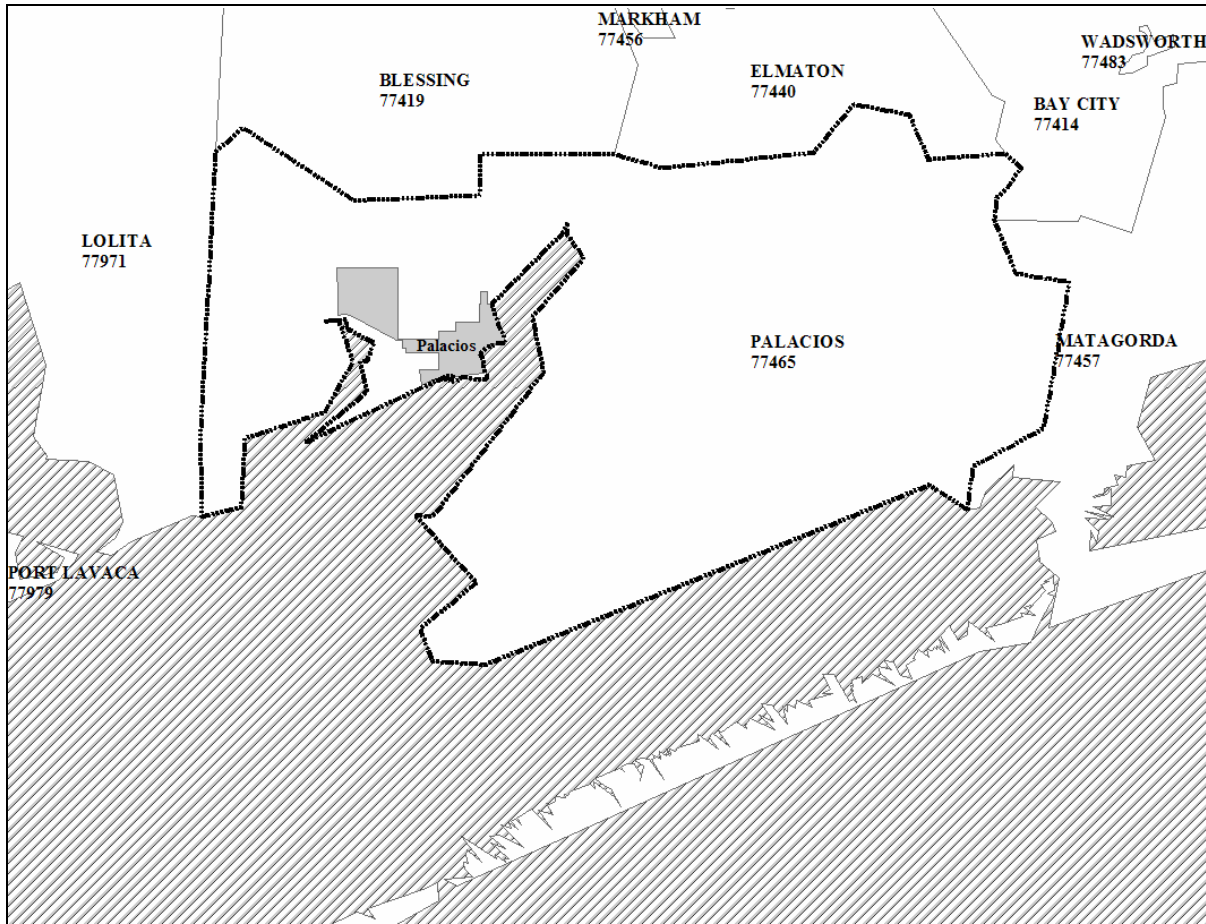


Figure D.56. Palacios, Texas Zipcode and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

Palacios is located in Matagorda County just east of Port Lavaca. The zip code boundary extends well to the east of the CDP.

Table D.190. Federal Permit Type by Homeport and Zipcode in Palacios, Texas for 2002

Type of Permit	Homeport	Zipcode
Shrimp	95	95
Commercial King Mackerel	0	2
Commercial Spanish Mackerel	0	1
Reef Fish	1	2
Red Snapper License Class 1	1	1
Red Snapper License Class 2	0	1
Commercial Spiny Lobster	0	0
Charter/Head boat for Coastal Pelagics	0	0
Charter/Head boat for Reef Fish	0	0
Swordfish	0	0
Shark	0	0
Rock Shrimp	6	6
Federal Dealers		0

There are over 95 vessels that homeport in Palacios and most of those have a shrimp permit according to Table D.190. Six of the shrimp vessels hold rock shrimp permits. One vessel has a reef fish and red snapper class 1 permit. A few vessels with owners in the zip code boundary do hold permits for king or Spanish mackerel and a red snapper class 2 permit.

Table D.191. Gear Type by Homeport and Zipcode in Palacios, Texas for 2002 (Source: NMFS 2002)

Gear Type	Homeport	Zipcode
Shrimp Gear	6	6
Fish Trap Gear	0	0
Gill Net Gear	0	0
Reef Fish Bandit	1	2
Handline/Troll	0	0
Rod & Reel	0	0
Surface Longline	0	0
Bottom Longline	0	0
Lobster Trap	0	0
Diver	0	0
Other	0	0

The predominant gear type in Table D.191 is shrimp gear which is consistent with the permit data previously discussed.

Table D.192. Total Other Employment and Employment in Fishing Related Industry for Palacios, Texas (Zipcode Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	Number Employed
Total Other Employment		698
Fishing	114100	29
Seafood Canning	311711	0
Seafood Processing	311712	15
Boat Building	336612	3
Fish and Seafood	422460	35
Fish and Seafood Markets	445220	0
Marinas	713930	3
Total Fishing Employment		85

Employment in the fishing sector as reported in Table D.192 indicates 35 persons in fish and seafood and 29 in the fishing sector. Another 15 are in seafood processing and with both boat building and marinas with 3, the total comes to 85 which is a little over 10% of total employment for the zip code area.

Vulnerability Index Score

The Service sector was the primary growth component for Matagorda County. Palacios showed growth in the Service sector from 11.7% in 1980 to 42.5% in 2000. The county had a positive industrial mix with most increases in the construction sector and the county had a positive competitive share. Palacios poverty rate was 23.8% for 2000 compared to 18.4% for Matagorda County. The average wage was lower than the county average in 2000. The sum of the index score for Palacios is positive 1.

National growth component	1
Industrial mix	1
Competitive share	1
Poverty component	-1
Average wage/salary component	-1
Total	1

5.5 Port Lavaca, Texas (77979)

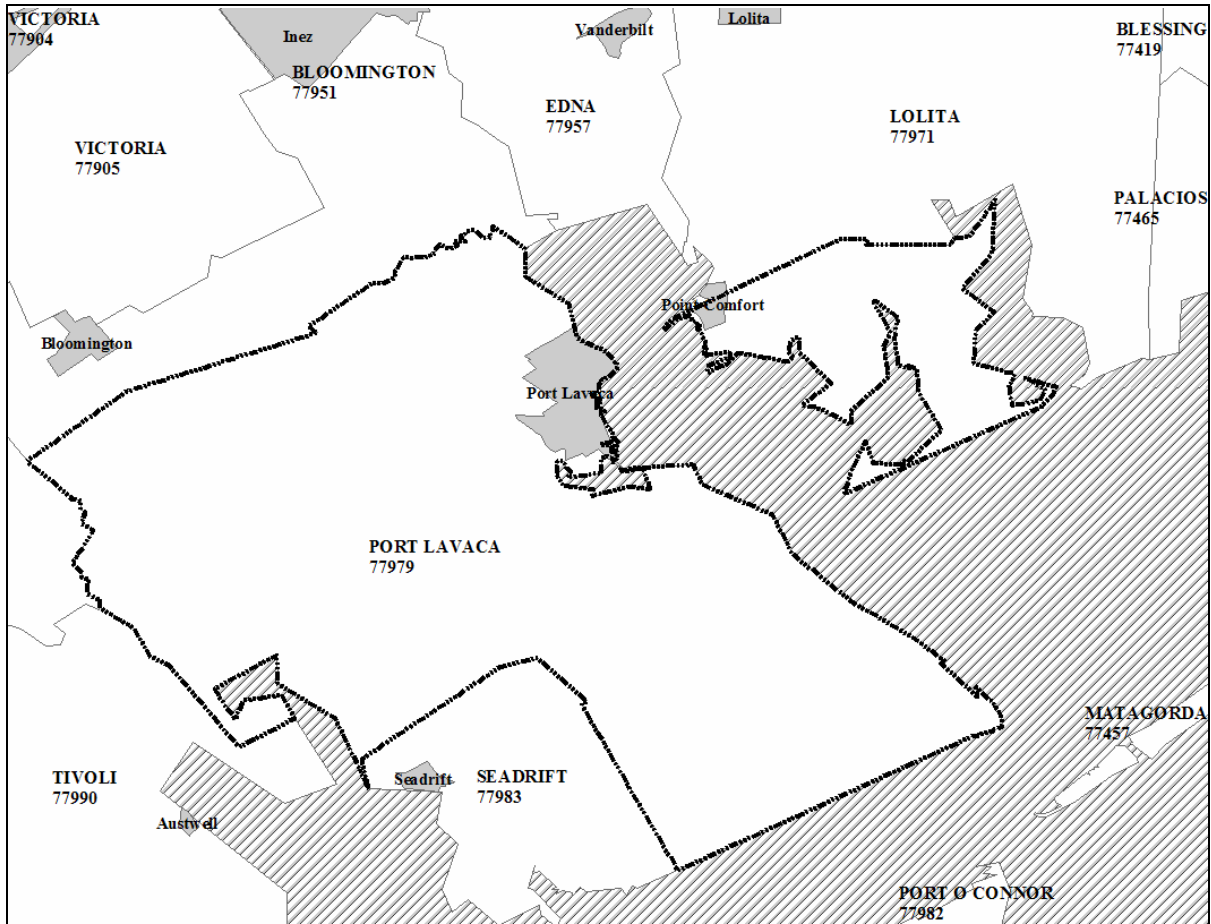


Figure D.57. Port Lavaca, Texas Zipcode and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

Port Lavaca is located in Calhoun County and the zip code boundary covers most of the county. It includes the CDP of Point Comfort (Figure D.57), but excludes Seadrift which is also in Calhoun County

Table D.193. Federal Permit Type by Homeport and Zipcode in Port Lavaca, Texas for 2002

Type of Permit	Homeport	Zipcode
Shrimp	49	49
Commercial King Mackerel	0	0
Commercial Spanish Mackerel	0	0
Reef Fish	0	0
Red Snapper License Class 1	0	0
Red Snapper License Class 2	0	0
Commercial Spiny Lobster	0	0
Charter/Head boat for Coastal Pelagics	2	5
Charter/Head boat for Reef Fish	2	5
Swordfish	0	0
Shark	0	0
Rock Shrimp	0	0
Federal Dealers		0

Port Lavaca has at least 49 vessels reporting it as homeport and all vessels listed in Table D.181 hold shrimp permits. There were at least 5 vessels in the zip code area that hold coastal pelagics and reef fish permits.

Rod & reel gear is the only type reported in Table D.194 which is consistent with the number of charter vessels discussed above.

Table D.194. Gear Type by Homeport and Zipcode in Port Lavaca for 2002 (Source: NMFS 2002)

Gear Type	Homeport	Zipcode
Shrimp Gear	0	0
Fish Trap Gear	0	0
Gill Net Gear	0	0
Reef Fish Bandit	0	0
Handline/Troll	0	0
Rod & Reel	2	5
Surface Longline	0	0
Bottom Longline	0	0
Lobster Trap	0	0
Diver	2	3
Other	0	0

Port Lavaca does have some fishing employment with 35 persons in the fish and seafood sector according to Table D.195. There are 3 persons reported under each of the sectors of marinas and fishing for a total fishing employment of 41.

Table D.195. Total Other Employment and Employment in Fishing Related Industry for Port Lavaca, Texas (Zipcode Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	Number Employed
Total Other Employment		4620
Fishing	114100	3
Seafood Canning	311711	0
Seafood Processing	311712	0
Boat Building	336612	0
Fish and Seafood	422460	35
Fish and Seafood Markets	445220	0
Marinas	713930	3
Total Fishing Employment		41

Vulnerability Index Score

The Manufacturing sector was the primary growth component for Calhoun County. Port Lavaca showed growth in the Manufacturing sector from 20.7% in 1980 to 22.3% in 2000. The county had a negative industrial mix with most decreases in the manufacturing sector and the county had a negative competitive share. Port Lavaca poverty rate was 20.1% for 2000 compared to 18.4% for Calhoun County. The average wage was higher than the county average in 2000. The sum of the index score for Port Lavaca is a negative one.

National growth component	1
Industrial mix	-1
Competitive share	-1
Poverty component	-1
Average wage/salary component	1
Total	-1

5.6 Seadrift, Texas (77983)

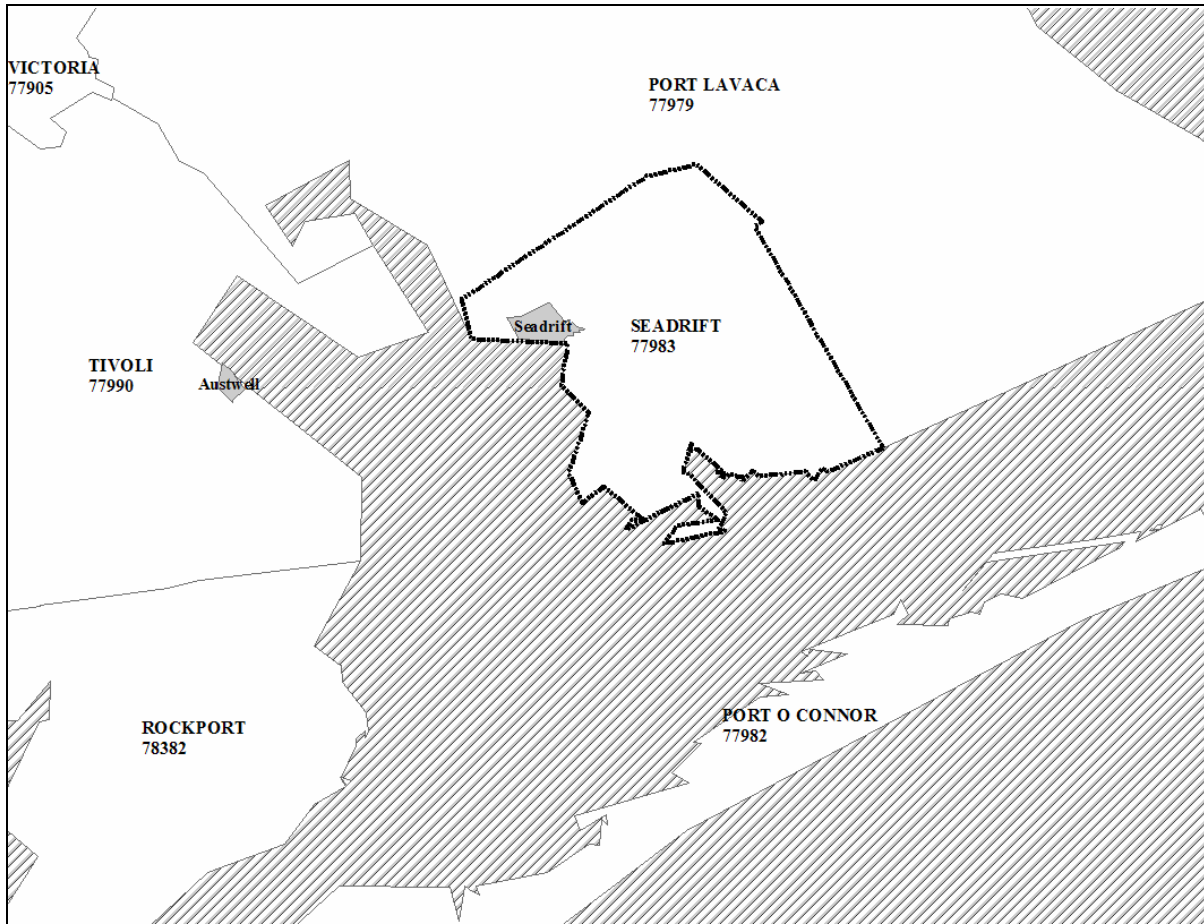


Figure D.58. Seadrift, Texas Zipcode and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

Seadrift is also located in Calhoun County and occupies the lower southwest corner of the coast. Its zip code boundary extends to the east of the CDP as shown in Figure D.58.

Table D.196. Federal Permit Type by Homeport and Zipcode in Seadrift, Texas for 2002

Type of Permit	Homeport	Zipcode
Shrimp	1	1
Commercial King Mackerel	1	1
Commercial Spanish Mackerel	0	0
Reef Fish	1	0
Red Snapper License Class 1	0	0
Red Snapper License Class 2	0	0
Commercial Spiny Lobster	0	0
Charter/Head boat for Coastal Pelagics	0	0
Charter/Head boat for Reef Fish	1	1
Swordfish	0	0
Shark	0	0
Rock Shrimp	0	0
Federal Dealers		0

According to Table D.196, there is only 1 federally permitted vessel that claims Seadrift as homeport.

Furthermore, that one vessel did not report any gear type associated with it.

Table D.197. Gear Type by Homeport and Zipcode in Seadrift, Texas for 2002 (Source: NMFS 2002)

Gear Type	Homeport	Zipcode
Shrimp Gear	0	0
Fish Trap Gear	0	0
Gill Net Gear	0	0
Reef Fish Bandit	0	0
Handline/Troll	0	0
Rod & Reel	0	0
Surface Longline	0	0
Bottom Longline	0	0
Lobster Trap	0	0
Diver	0	0
Other	0	0

There is some fishing employment with 10 persons in the fish and seafood sector and another 3 in both seafood canning and fish and seafood markets. The total fishing employment reported in Table D.198 is 16 for the zip code area of Seadrift.

Table D.198. Total Other Employment and Employment in Fishing Related Industry for Seadrift, Texas (Zipcode Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	Number Employed
Total Other Employment		1193
Fishing	114100	0
Seafood Canning	311711	3
Seafood Processing	311712	0
Boat Building	336612	0
Fish and Seafood	422460	10
Fish and Seafood Markets	445220	3
Marinas	713930	0
Total Fishing Employment		16

Vulnerability Index Score

The Manufacturing sector was the primary growth component for Calhoun County. Seadrift showed a loss in the Manufacturing sector from 24.8% in 1980 to 20.2% in 2000. The county had a negative industrial mix with most decreases in the manufacturing sector and the county had a negative competitive share. Seadrift's poverty rate was 24.9% for 2000 compared to 16.2% for Calhoun County. The average wage was lower than the county average in 2000. The sum of the index score for Seadrift is a negative five.

National growth component	-1
Industrial mix	-1
Competitive share	-1
Poverty component	-1
Average wage/salary component	-1
Total	-5

5.7 Rockport, Texas (78382)

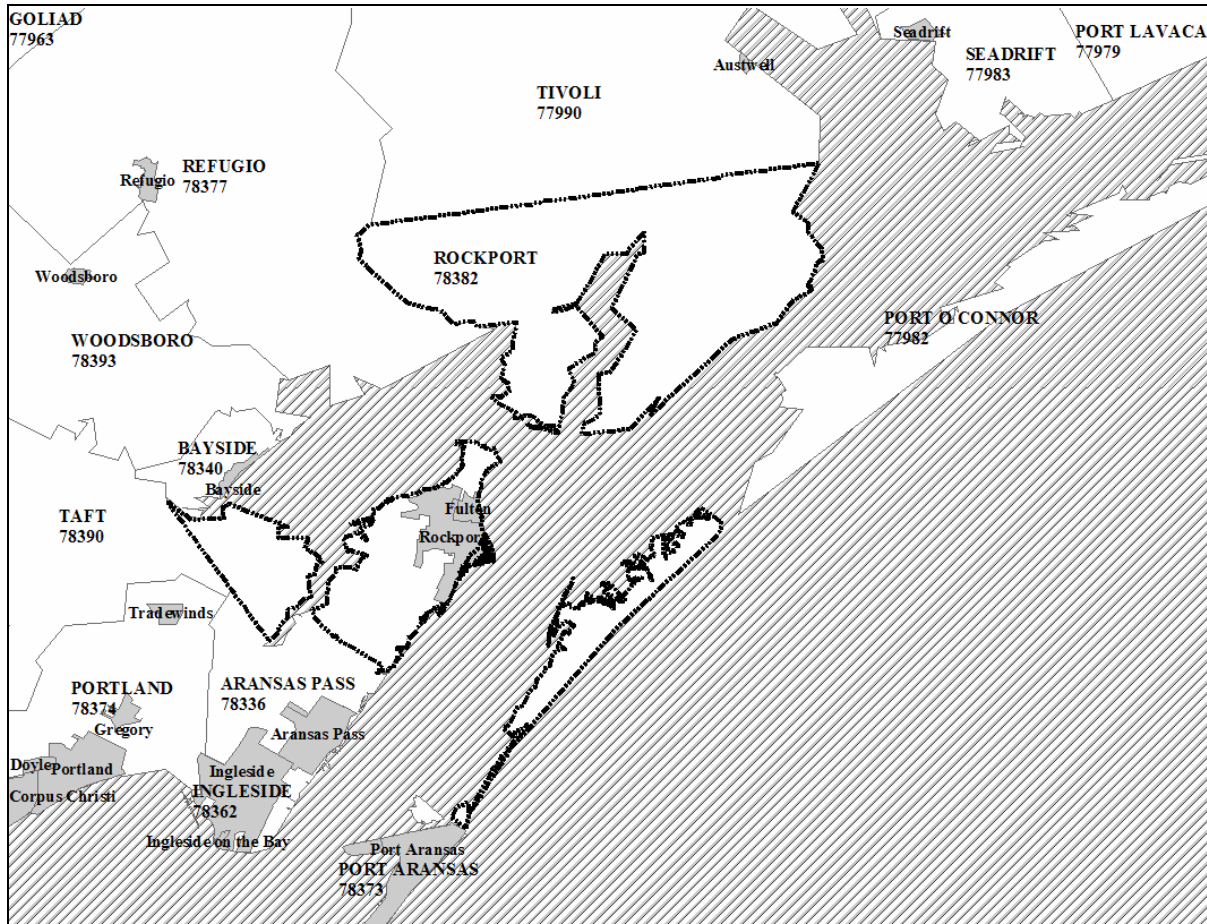


Figure D.59. Rockport, Texas Zipcode and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

Rockport is in Aransas County which is entirely within the Rockport zip code boundary. The CDP for Fulton is also included within the Rockport zip code area (Figure D.59).

Table D.199. Federal Permit Type by Homeport and Zipcode in Rockport, Texas for 2002

Type of Permit	Homeport	Zipcode
Shrimp	9	9
Commercial King Mackerel	0	0
Commercial Spanish Mackerel	0	0
Reef Fish	1	1
Red Snapper License Class 1	1	1
Red Snapper License Class 2	0	0
Commercial Spiny Lobster	0	0
Charter/Head boat for Coastal Pelagics	1	1
Charter/Head boat for Reef Fish	1	1
Swordfish	0	0
Shark	0	0
Rock Shrimp	0	0
Federal Dealers		0

Rockport has a total of 9 vessels that homeport there. The types of permits held by those at least 9 vessels are shown in Table D.199 which includes shrimp, reef fish, a red snapper class 1, and charter permits for both coastal pelagics and reef fish.

Gear types are shown in Table D.200 and reflect the permits listed above.

Table D.200. Gear Type by Homeport and Zipcode in Rockport, Texas for 2002
(Source: NMFS 2002)

Gear Type	Homeport	Zipcode
Shrimp Gear	1	1
Fish Trap Gear	0	0
Gill Net Gear	0	0
Reef Fish Bandit	1	1
Handline/Troll	1	1
Rod & Reel	1	1
Surface Longline	0	0
Bottom Longline	0	0
Lobster Trap	0	0
Diver	0	0
Other	0	0

Rockport does have some fishing sector employment with the most being listed under marinas in Table D.201. Other sectors like fishing and fish and seafood are also present with 10 persons employed in each. The total for the Rockport zip code area is 30 when you add the 3 persons under seafood processing.

Table D.201. Total Other Employment and Employment in Fishing Related Industry for Rockport, Texas (Zipcode Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	Number Employed
Total Other Employment		3458
Fishing	114100	10
Seafood Canning	311711	0
Seafood Processing	311712	3
Boat Building	336612	0
Fish and Seafood	422460	10
Fish and Seafood Markets	445220	0
Marinas	713930	17
Total Fishing Employment		40

Vulnerability Index Score

The Services sector was the primary growth component for Aransas County. Rockport showed growth in the Services sector from 15.1% in 1980 to 41.7% in 2000. The county had a positive industrial mix with most increases in the construction sector and the county had a positive competitive share. Rockport's poverty rate was 19.7% for 2000 compared to 19.7% for Aransas County. The average wage was higher than the county average in 1990. The sum of the index score for Rockport is a positive four.

National growth component	1
Industrial mix	1
Competitive share	1
Poverty component	0
Average wage/salary component	1
Total	4

5.8 Port Aransas (78373)

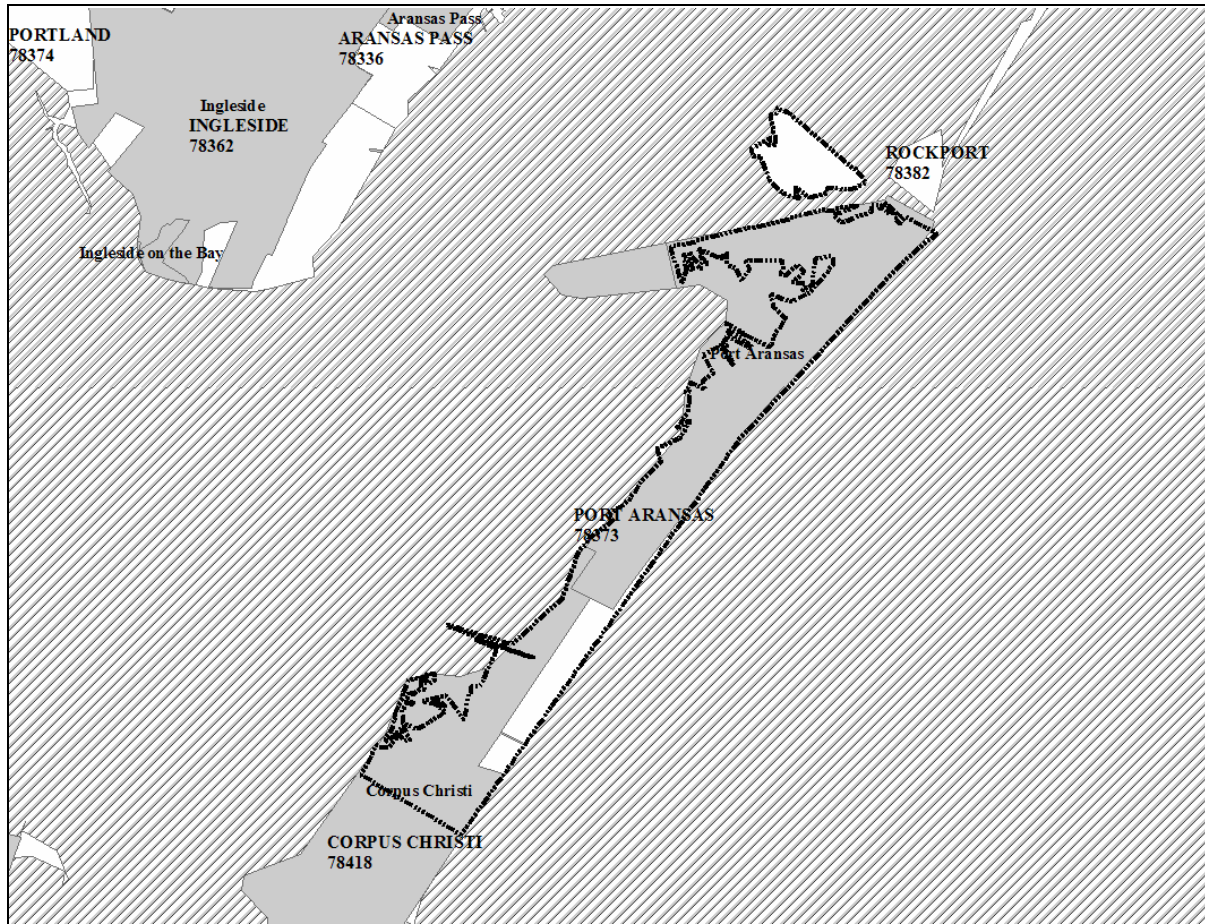


Figure D.60. Port Aransas, Texas Zip code and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

Port Aransas is in Nueces County on the barrier island just across from Corpus Christi. The zip code boundary encompasses all the CDP area which may include part of the Corpus Christi CDP as Figure D.60 indicates.

Table D.202. Federal Permit Type by Homeport and Zip code in Port Aransas, Texas for 2002

Type of Permit	Homeport	Zip code
Shrimp	2	2
Commercial King Mackerel	1	1
Commercial Spanish Mackerel	1	1
Reef Fish	1	1
Red Snapper License Class 1	0	0
Red Snapper License Class 2	0	0
Commercial Spiny Lobster	0	0
Charter/Head boat for Coastal Pelagics	62	35
Charter/Head boat for Reef Fish	59	33
Swordfish	0	0
Shark	0	1
Rock Shrimp	0	0
Federal Dealers		1

With the majority of permits in Table D.202 charter permits for either coastal pelagics or reef fish, it is safe to say that most vessels from Port Aransas are likely charter or party boats. There are relatively few other type of permits listed for the 64 vessels home porting in Port Aransas.

Table D.203. Gear Type by Homeport and Zip code in Port Aransas, Texas for 2002
(Source: NMFS 2002)

Gear Type	Homeport	Zip code
Shrimp Gear	0	0
Fish Trap Gear	0	0
Gill Net Gear	0	0
Reef Fish Bandit	4	3
Handline/Troll	13	9
Rod & Reel	57	34
Surface Longline	2	2
Bottom Longline	1	1
Lobster Trap	0	0
Diver	10	7
Other	4	3

As with the permit table above, the gear types listed in Table D.203 are consistent with most vessels reporting the gear type rod & reel. Some do report handline/troll gear, along with dive gear.

Table D.204. Total Other Employment and Employment in Fishing Related Industry for Rockport, Texas (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	Number Employed
Total Other Employment		1864
Fishing	114100	3
Seafood Canning	311711	0
Seafood Processing	311712	0
Boat Building	336612	0
Fish and Seafood	422460	0
Fish and Seafood Markets	445220	3
Marinas	713930	57
Total Fishing Employment		63

Table D.204 shows some fishing sector employment that is consistent with other records as most of the employment is in the marinas sector. Both fishing and seafood markets have 3 each for a total of 63 persons.

Vulnerability Index Score

The Services sector was the primary growth component for Nueces County. Port Aransas showed growth in the Services sector from 15.1% in 1980 to 41.5% in 2000. The county had a positive industrial mix with most increases in the construction sector and the county had a negative competitive share. Port Aransas's poverty rate was 11.3% for 2000 compared to 17.9% for Nueces County. The average wage was higher than the county average in 2000. The sum of the index score for Port Aransas is positive three.

National growth component	1
Industrial mix	1
Competitive share	-1
Poverty component	1
Average wage/salary component	1
Total	3

5.9 Aransas Pass

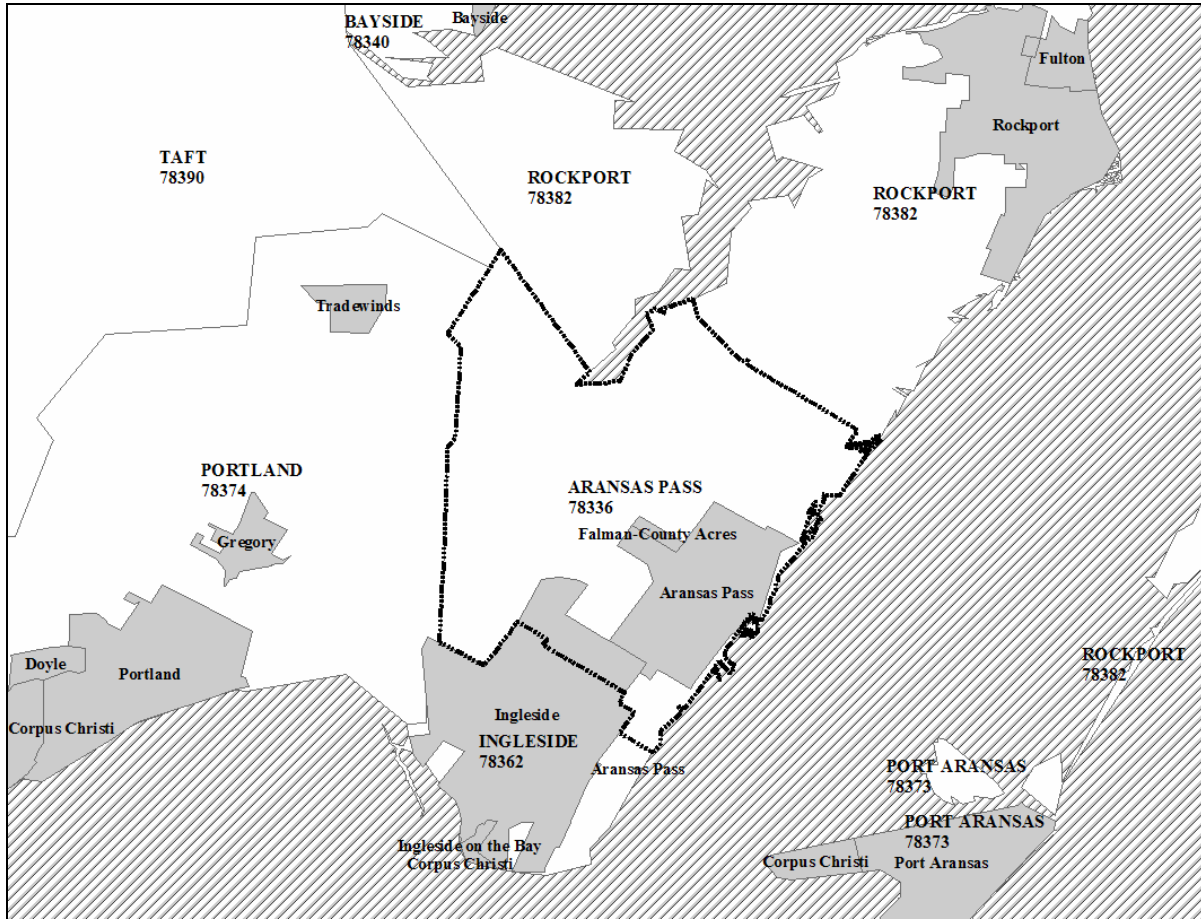


Figure D.61. Aransas Pass, Texas Zip code and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

Aransas Pass is located in Nueces County between Rockport and Ingleside. The zip code boundary extends beyond the CDP area and includes part of Ingleside.

Table D.205 Federal Permit Type by Homeport and Zip code in Aransas Pass for 2002

Type of Permit	Homeport	Zip code
Shrimp	37	37
Commercial King Mackerel		
Commercial Spanish Mackerel		
Reef Fish		
Red Snapper License Class 1		
Red Snapper License Class 2		
Commercial Spiny Lobster		
Charter/Headboat for Coastal Pelagics		
Charter/Headboat for Reef Fish		
Swordfish		
Shark		
Rock Shrimp		
Federal Dealers		

Table D.206 Gear Type by Homeport and Zip code in Aransas Pass for 2002 (Source: NMFS 2002)

Gear Type	Homeport	Zip code
Shrimp Gear		
Fish Trap Gear		
Gill Net Gear		
Reef Fish Bandit		
Handline/Troll		
Rod & Reel		
Surface Longline		
Bottom Longline		
Lobster Trap		
Diver		
Other		

Table D.207. Total Other Employment and Employment in Fishing Related Industry for Aransas Pass (Zip code Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	Number Employed
Total Other Employment		
Fishing	114100	
Seafood Canning	311711	
Seafood Processing	311712	
Boat Building	336612	
Fish and Seafoods	422460	
Fish and Seafood Markets	445220	
Marinas	713930	
Total Fishing Employment		

Vulnerability Index Score

The Services sector was the primary growth component for Nueces County. Aransas Pass showed growth in the Services sector from 13.5% in 1980 to 41.2% in 2000. The county had a positive industrial mix with most increases in the construction sector and the county had a negative competitive share. Aransas Pass poverty rate was 19.2% for 2000 compared to 17.9% for Nueces County. The average wage was higher than the county average in 2000. The sum of the index score for Aransas Pass is a negative one.

National growth component	1
Industrial mix	1
Competitive share	-1
Poverty component	-1
Average wage/salary component	-1
Total	-1

5.10 Brownsville, Texas (78520, 78521, 78522, 78523, 78526)

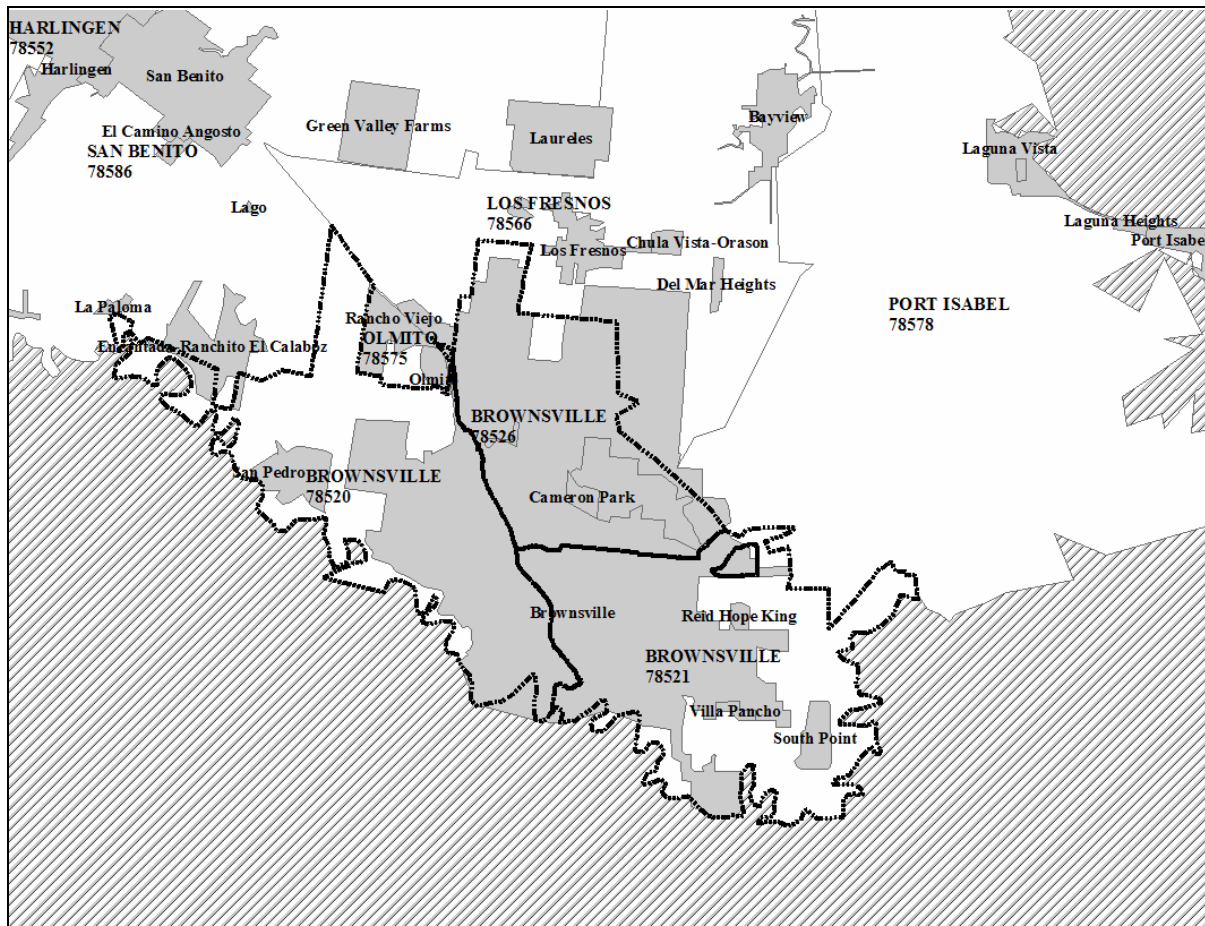


Figure D.62. Brownsville, Texas Zipcode and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

Brownsville sits in the southernmost corner of Texas in Cameron County on the border with Mexico. The three zip code boundaries enclose several CDPs other than Brownsville, including: Cameron Park, Villa Pancho, South Point, Reid Hope King and San Pedro as shown in Fig.D.62.

Table D.208. Federal Permit Type by Homeport and Zipcode in Brownsville, Texas for 2002

Type of Permit	Homeport	Zipcode
Shrimp	100	100
Commercial King Mackerel	0	0
Commercial Spanish Mackerel	0	1
Reef Fish	0	0
Red Snapper License Class 1	0	0
Red Snapper License Class 2	0	1
Commercial Spiny Lobster	0	0
Charter/Head boat for Coastal Pelagics	0	0
Charter/Head boat for Reef Fish	0	0
Swordfish	0	0
Shark	0	0
Rock Shrimp	5	5
Federal Dealers		1

Brownsville has at least 100 vessels holding shrimp permits that call it homeport according to Table D.208. As expected the gear type listed under Table D.209 is shrimp gear, but because the shrimp permit is a new system, all vessels are not recorded in the gear type table.

Table D.209. Gear Type by Homeport and Zipcode in Brownsville, Texas for 2002 (Source: NMFS 2002)

Gear Type	Homeport	Zipcode
Shrimp Gear	5	5
Fish Trap Gear	0	0
Gill Net Gear	0	0
Reef Fish Bandit	0	1
Handline/Troll	0	1
Rod & Reel	0	1
Surface Longline	0	0
Bottom Longline	0	0
Lobster Trap	0	0
Diver	0	0
Other	0	0

Brownsville has a considerable amount of employment in the fishing sector with 731 persons employed in the combined sectors according to Table D.210. Most of that employment is in seafood processing with 557. Another 96 are employed in fish and seafood and 54 are listed under fishing. Even with those numbers, fishing employment contributes slightly less than 2% of the total employment for the zip code areas.

Table D.210. Total Other Employment and Employment in Fishing Related Industry for Brownsville, Texas (Zipcode Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	Number Employed
Total Other Employment		37358
Fishing	114100	54
Seafood Canning	311711	0
Seafood Processing	311712	557
Boat Building	336612	21
Fish and Seafood	422460	96
Fish and Seafood Markets	445220	0

Marinas	713930	3
Total Fishing Employment		731

Vulnerability Index Score

The Services sector was the primary growth component for Cameron County. Brownsville showed growth in the Services sector from 15.1% in 1980 to 51.1% in 2000. The county had a negative industrial mix with most increases in the manufacturing sector and the county had a positive competitive share. Brownsville's poverty rate was 35.5% for 2000 compared to 32.6% for Cameron County. The average wage was lower than the county average in 2000. The sum of the index score for Brownsville is a negative one.

National growth component	1
Industrial mix	-1
Competitive share	1
Poverty component	-1
Average wage/salary component	-1
Total	-1

5.11 Port Isabel, Texas (78578, 78597)

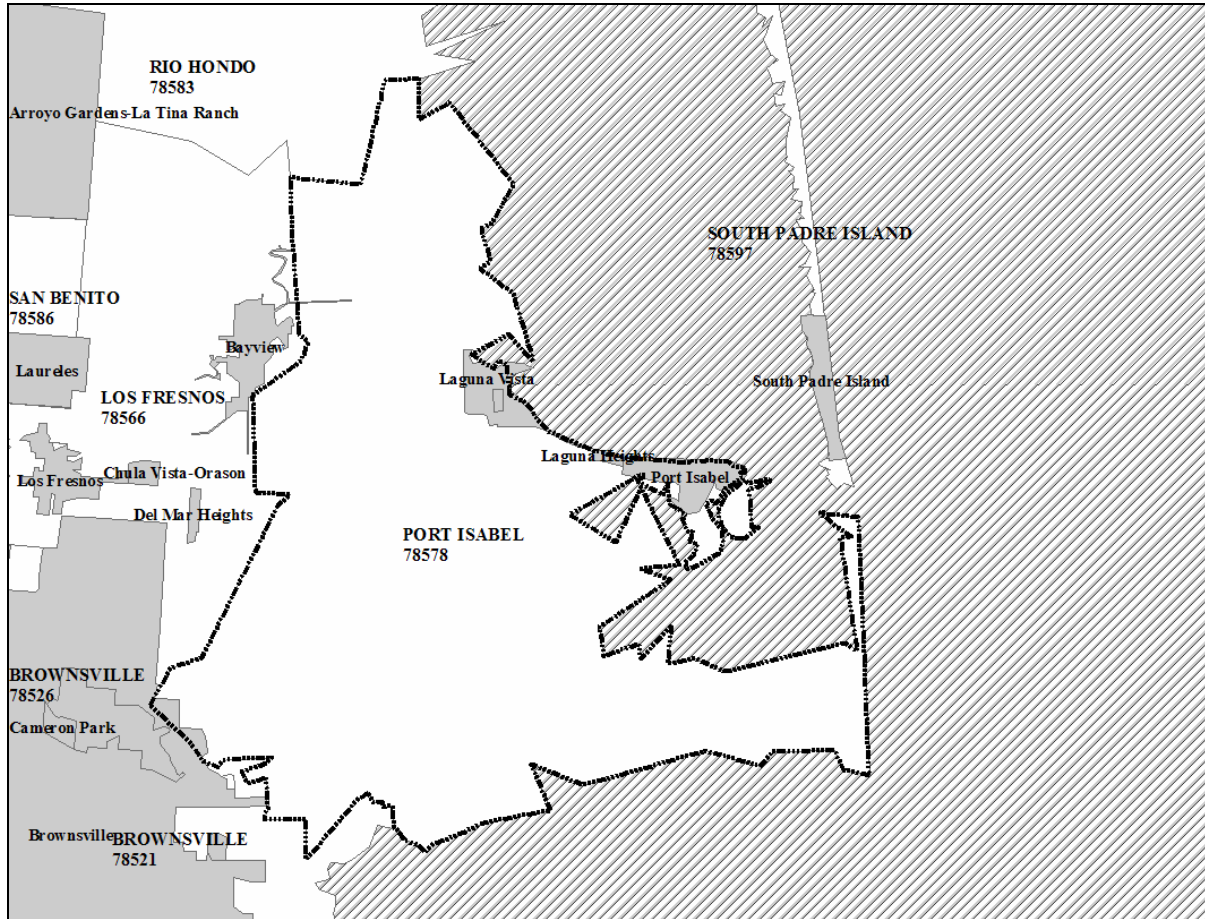


Figure D.58. Port Isabel, Texas Zipcode and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

Port Isabel is located in Cameron County. Within the zip code boundary just west of South Padre Island are the Laguna Vista, Laguna Heights and Port Isabel CDPs (Fig.D.58).

Table D.211. Federal Permit Type by Homeport and Zipcode in Port Isabel, Texas for 2002

Type of Permit	Homeport	Zipcode
Shrimp	110	110
Commercial King Mackerel	0	1
Commercial Spanish Mackerel	1	2
Reef Fish	4	3
Red Snapper License Class 1	2	2
Red Snapper License Class 2	1	0
Commercial Spiny Lobster	0	0
Charter/Head boat for Coastal Pelagics	7	11
Charter/Head boat for Reef Fish	7	11
Swordfish	1	3
Shark	1	4
Rock Shrimp	0	0
Federal Dealers		0

There are at least 110 vessels with federal permits home ported at Port Isabel. There are several within the zip code boundary that have charter permits for both coastal pelagics and reef fish (Table D.211). There are 4 with reef fish permits and 2 vessels have red snapper class 1 permits.

Table D.212. Gear Type by Homeport and Zipcode in Port Isabel, Texas for 2002
(Source: NMFS 2002)

Gear Type	Homeport	Zipcode
Shrimp Gear	0	0
Fish Trap Gear	0	0
Gill Net Gear	0	0
Reef Fish Bandit	5	4
Handline/Troll	2	5
Rod & Reel	8	10
Surface Longline	1	3
Bottom Longline	2	1
Lobster Trap	0	0
Diver	1	0
Other	0	0

The most often gear type listed under Table D.212 is rod & reel as expected with so many charter permits listed above. Although there are 5 vessels that report bandit gear and several within the zip code are with handline/troll gear.

Table D.213. Total Other Employment and Employment in Fishing Related Industry for Port Isabel, Texas (Zipcode Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	Number Employed
Total Other Employment		1856
Fishing	114100	15
Seafood Canning	311711	0
Seafood Processing	311712	182
Boat Building	336612	3
Fish and Seafood	422460	6
Fish and Seafood Markets	445220	6
Marinas	713930	3
Total Fishing Employment		215

Port Isabel does have employment in the fishing sector with 215 persons total as seen in Table D.213. The majority of that employment is in the seafood processing sector with 182. The employment from the fishing sector adds 15 and fish and seafood and fish and seafood markets both add 6 more. Boat building and marinas both have 3 persons employed in those sectors. The combined employment in the fishing sector makes up more than 10% of total employment for the zip code area.

Vulnerability Index Score

The Services sector was the primary growth component for Cameron County. Port Isabel showed growth in the Services sector from 22.7% in 1980 to 37.5% in 2000. The county had a negative industrial mix with most decrease in the manufacturing sector and the county had a positive competitive share. Port Isabel's poverty rate was 27.1% for 2000 compared to 32.6% for Cameron County. The average wage was lower than the county average in 2000. The sum of the index score for Port Isabel is a positive one.

National growth component	1
Industrial mix	-1
Competitive share	1
Poverty component	1
Average wage/salary component	-1
Total	1

5.12 South Padre Island, Texas (78597)

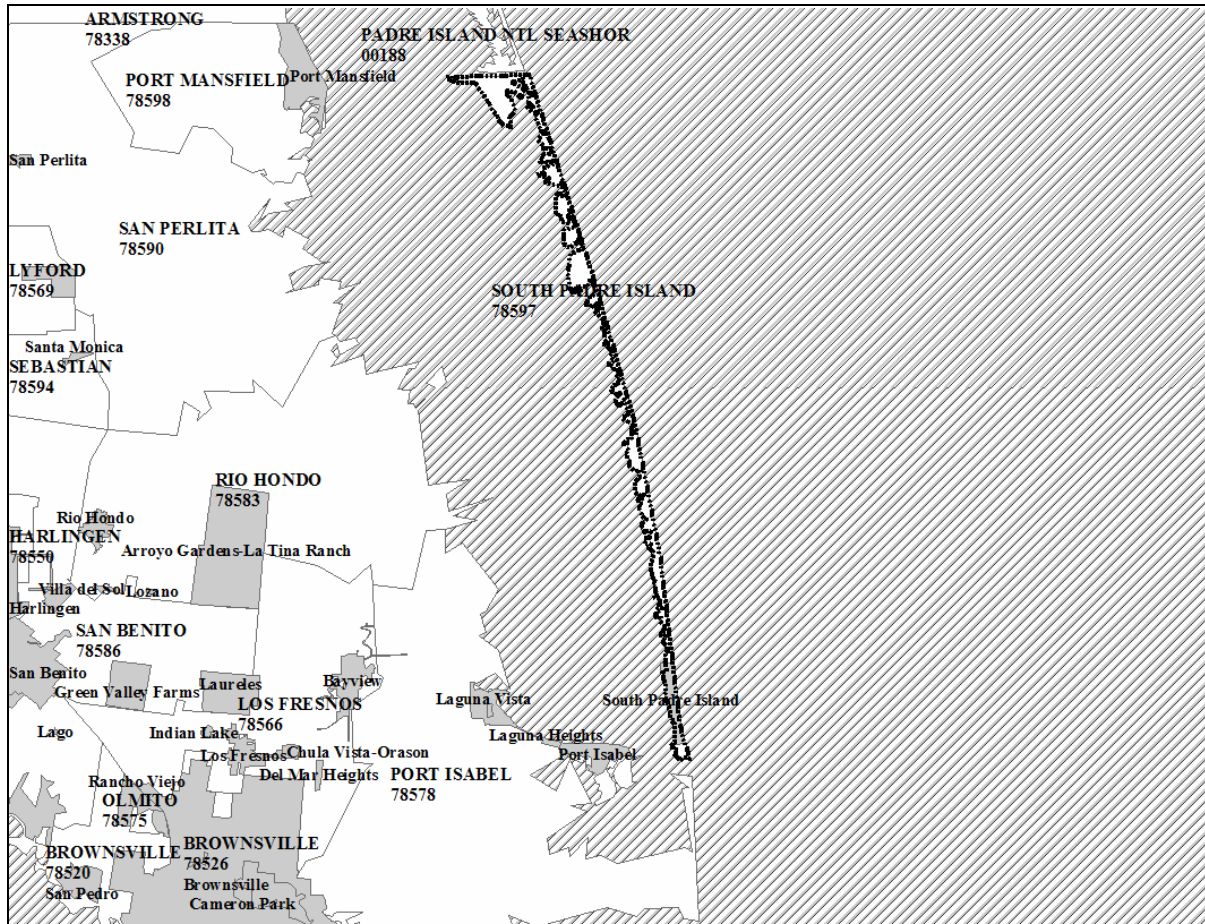


Figure D.59. South Padre Island, Texas Zipcode and Census Designated Place Boundaries. (U.S. Census Bureau, 2002)

South Padre Island is situated to the northeast of Port Isabel on a barrier island in Cameron County. The CDP sits at southern end of the island which is entirely within the zip code boundary as seen in Figure D.59.

Table D.214. Federal Permit Type by Homeport and Zipcode in South Padre Island, Texas for 2002

Type of Permit	Homeport	Zipcode
Shrimp	0	0
Commercial King Mackerel	0	1
Commercial Spanish Mackerel	0	1
Reef Fish	0	1
Red Snapper License Class 1	0	0
Red Snapper License Class 2	0	0
Commercial Spiny Lobster	0	0
Charter/Head boat for Coastal Pelagics	6	6
Charter/Head boat for Reef Fish	6	6
Swordfish	0	0
Shark	0	1
Rock Shrimp	0	0
Federal Dealers		0

There are 6 vessels that call this island homeport. All six have coastal pelagic and reef fish charter permits as shown in Table D.214. Within the zip code area there is 1 other vessel which holds several different permits including king and Spanish mackerel, reef fish, and shark.

Table D.215. Gear Type by Homeport and Zipcode in South Padre Island, Texas for 2002 (Source: NMFS 2002)

Gear Type	Homeport	Zipcode
Shrimp Gear	0	0
Fish Trap Gear	0	0
Gill Net Gear	0	0
Reef Fish Bandit	1	2
Handline/Troll	1	4
Rod & Reel	6	6
Surface Longline	0	0
Bottom Longline	0	0
Lobster Trap	0	0
Diver	1	0
Other	0	0

The gear type expected to be most often listed in Table D.215 with most vessels in the area holding charter permits is rod & reel. There are several other gear types listed, such as handline/troll, bandit gear, and dive gear.

Table D.216. Total Other Employment and Employment in Fishing Related Industry for South Padre Island, Texas (Zipcode Business Patterns, U.S. Census Bureau 1998)

Category	NAIC Code	Number Employed
Total Other Employment		3661
Fishing	114100	0
Seafood Canning	311711	0
Seafood Processing	311712	0
Boat Building	336612	0
Fish and Seafood	422460	0
Fish and Seafood Markets	445220	0
Marinas	713930	18
Total Fishing Employment		18

All employment in the fishing sector for South Padre Island is in the marinas sector according to Table D.216. This area is primarily a beach resort community and does not support much commercial fishing.

Vulnerability Index Score

The Services sector was the primary growth component for Cameron County. South Padre Island showed growth in the Services sector from 27.9% in 1980 to 41.2% in 2000. The county had a negative industrial mix with most decrease in the manufacturing sector and the county had a positive competitive share. South Padre Island's poverty rate was 11.9% for 2000 compared to 32.6% for Cameron County. The average wage was higher than the county average in 1990. The sum of the index score for South Padre Island is a positive three.

National growth component	1
Industrial mix	-1
Competitive share	1
Poverty component	1
Average wage/salary component	1
Total	3