

**COMMONWEALTH OF THE
NORTHERN MARIANA ISLANDS
2010 FISHERY STATISTICS**

Compiled by

Commonwealth of the Northern Mariana Islands

Division of Fish and Wildlife

and the

Western Pacific Fisheries Information Network

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CONTENTS

	Page
Introduction	B.1
Data Collecting	B.1
Data Processing	B.2
Data Reporting	B.3
Species Categories	B.3
Tables	B.6
Figures	B.19

LIST OF CNMI 2010 SUMMARY TABLES

Tables	Page
B-1 Annual Estimated Commercial Landings	B.6
B-2 January Estimated Commercial Landings	B.7
B-3 February Estimated Commercial Landings	B.8
B-4 March Estimated Commercial Landings	B.9
B-5 April Estimated Commercial Landings	B.10
B-6 May Estimated Commercial Landings	B.11
B-7 June Estimated Commercial Landings	B.12
B-8 July Estimated Commercial Landings	B.13
B-9 August Estimated Commercial Landings	B.14
B-10 September Estimated Commercial Landings	B.15
B-11 October Estimated Commercial Landings	B.16
B-12 November Estimated Commercial Landings	B.17
B-13 December Estimated Commercial Landings	B.18

LIST OF CNMI FIGURES

Figures	Page
2010 Monthly Estimated Commercial Landings	
B-1-1 Pelagic Fishes, Bottomfishes, Reef Fishes, and Other Fishes	B.19
B-1-2 Tunas, PMUS, and BMUS	B.19
B-1-3 Skipjack, Yellowfin Tuna, and Other Tunas	B.20
B-1-4 Mahimahi, Wahoo, and Billfishes	B.20
B-1-5 Bigeye Scad, Emperors, and Onaga	B.21
1981-2010 Average Monthly Estimated Commercial Landings	
B-2-1 Tunas, PMUS, and BMUS	B.22
B-2-2 Skipjack, Yellowfin Tuna, and Other Tunas	B.22
B-2-3 Mahimahi, Wahoo, and Billfishes	B.23
B-2-4 Bigeye Scad, Emperors, and Onaga	B.23
B-2-5 Parrotfishes, Spiny Lobster, and Rabbitfishes	B.24
1981-2010 Annual Total Estimated Commercial Landings	
B-3-1 All Species (Pounds) and All Species (Dollars)	B.25
B-3-2 Pelagic Fishes, Bottomfishes, Reef Fishes, and Other Fishes	B.25
B-3-3 Tunas, PMUS, and BMUS	B.26
B-3-4 Skipjack, Yellowfin Tuna, and Other Tunas	B.26
B-3-5 Wahoo, Mahimahi, and Billfishes	B.27
B-3-6 Bigeye Scad, Emperors, and Onaga	B.27
B-3-7 Parrotfishes, Spiny Lobster, and Rabbitfishes	B.28
1981-2010 Monthly Estimated Commercial Landings	
B-4-1 Yellowfin Tuna	B.29
B-4-2 Skipjack Tuna	B.29
B-4-3 Dogtooth Tuna	B.30
B-4-4 Wahoo	B.30
B-4-5 Mahimahi	B.31
B-4-6 Bigeye Scad	B.31
B-4-7 Emperors	B.32
B-4-8 Onaga	B.32
B-4-9 Parrotfishes	B.33
B-4-10 Rabbitfishes	B.33
B-4-11 Spiny Lobster	B.34

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COMMONWEALTH OF THE NORTHERN MARIANA ISLANDS 2010 FISHERY STATISTICS

INTRODUCTION

Location: 14° to 21°N latitude, 145°E longitude

Main Islands: Saipan, Rota, Tinian

Population: about 44,582 (*The World Factbook*, July 2012 est.)

Economy: tourism, agriculture, garment production

The chief domestic commercial fishery of the Commonwealth of the Northern Mariana Islands (CNMI) is a small boat, 1-day troll fishery, and most of the boats are 12- to 24-foot outboard-powered, runabout-type vessels. However, a few larger boats are used mainly for bottomfishing around the islands north of Saipan, and a small charter fleet also exists.



CNMI
Source: <https://www.cia.gov/library/publications/the-world-factbook/maps/cq-map.gif>;
The World Factbook

Trolling is the most common fishing method, but bottomfishing and reef fishing are also popular. Reef fishes make up a significant portion of the total commercial catch and are an important component of the local diet. In recent years, several larger boats started fishing more intensively for bottomfishes around the islands north of Saipan. While the vast majority of the domestic catch is consumed locally, there have been some intermittent exports to Guam, Hawaii, and Japan.

In 1982 WPacFIN significantly improved data collecting and processing systems by providing computer hardware, software, and training. Since then numerous system upgrades and replacements have been implemented to keep up with changing technologies and the increasing demands for improved fisheries statistics.

DATA COLLECTING

The Division of Fish and Wildlife (DFW) has been collecting fishery statistics about the commercial fishing fleet of Saipan since the mid-1970s. With the assistance of the NMFS WPacFIN program, DFW also expanded its fisheries monitoring programs to include Rota and Tinian, the other two major inhabited islands in the CNMI.

B.2

DFW's principal method of collecting domestic commercial fisheries data is a dealer invoicing system, sometimes referred to as a trip ticket system. The DFW provides numbered two-part invoices to all purchasers of fresh fishery products (including hotels, restaurants, stores, fish markets, and roadside vendors). Dealers then complete an invoice each time they purchase fish directly from fishers; one copy goes to DFW and one copy goes to their records.

Some advantages of this data collection method are that it is relatively inexpensive to implement and maintain and is fairly easy to completely cover the commercial fisheries. DFW can also provide feedback to dealers and fishers to ensure data accuracy and continued cooperation.

There are some disadvantages: (1) dependency on non-DFW personnel to identify the catch and record the data; (2) restrictions on the types of data that can be collected; (3) required education and cooperation of all fish purchasers; and (4) limited recordings of fish actually sold to dealers. Therefore, a potentially important portion of the total landings is unrecorded.

Since 1982 DFW has tried to minimize these disadvantages in several ways: (1) maintain a close working relationship with dealers; (2) add new dealers to their list and educate them; and (3) implement a creel survey to help estimate total catch, including recreational and subsistence catch.

The current system collects data from dealers in Saipan, where DFW estimates more than 90% of all CNMI commercial landings are made. The DFW also estimates that the proportion of total commercial landings that have been recorded in the Saipan database since 1983 is about 90%. Previous volumes of FSWP reported only recorded landings, but in recent volumes the data have been adjusted to represent 100% coverage and are referenced as "Estimated Commercial Landings" in the tables and charts.

Information collected from the fishers includes the following:

- Date
- Buyer's Name (dealer)
- Seller's Name (fisherman)
- Species
- Weight (pounds)
- Price per Pound
- Value
- Invoice Number

These data elements are collected for all purchases of fishery products; however, species identification is frequently made only to a group level, especially for reef fish.

DATA PROCESSING

At the beginning of each month, a DFW employee visits each of the dealers on Saipan to collect the previous month's invoices, to resolve problems, and to answer any questions the dealers may have. The invoices are then returned to the office for an initial visual edit during the coding process and entered into the Commercial Purchase System database. After the records are entered, reports are generated to help verify that all the data were entered correctly. On a quarterly basis, copies of the database are sent to the Pacific Islands Fisheries Science

B.3

Center, where the data are transferred to the central computer for additional verification before generating summary reports. These reports and databases are then ready for use by qualified WPacFIN participants.

DATA REPORTING

After all editing, adjustment, and quality control activities have been completed, monthly and annual summary reports by species are generated. Each monthly report contains a subtotal for the sum of all species for that month. Annual reports contain the total landings for each species and the total recorded landings for all species for the calendar year.

Please note that commercial landings data have been adjusted to reflect total coverage and are referenced as “Estimated Commercial Landings” in the charts and tables. To access the most up-to-date data and charts, please visit the WPacFIN website, <http://www.pifsc.noaa.gov/wpacfin>.

SPECIES CATEGORIES

The species and species groups that are used in the tables and graphs of CNMI's data are defined in this section. Many of the species included in this report have been recategorized over the years. For example, the Magnuson Fishery Conservation and Management Act of 1976 was amended in 1992 to include tunas in the Pelagic Management Unit Species (PMUS) category. However, this report maintains the original species categorizations from previous FSWP reports for comparative purposes. As such, tunas are kept in a separate category.

Pelagic Management Unit Species (PMUS)

Blue marlin	Sharks
Mahimahi	Spearfish
Sailfish	Wahoo

I. Bottomfish Management Unit Species (BMUS)

Alfonsin	Jobfish (uku)
Amberjack	Kalikali (yellowtail)
Black jack	Lyretail grouper
Blacktip grouper	Onaga (red snapper)
Blue-lined snapper	Opakapaka (pink snapper)
Ehu (red snapper)	Redgill emperor
Giant trevally	Silvermouth (deep lehi)
Gindai (flower snapper)	Yelloweye opakapaka

II. Billfishes

Black marlin	Spearfish
Sailfish	

III. Tunas

Dogtooth tuna	Tunas (unknown)
Kawakawa (saba)	Yellowfin tuna
Skipjack tuna	

IV. Other Tunas

Dogtooth tuna	Tunas (unknown)
Kawakawa (saba)	

V. Fisheries Categories

A. *Pelagic Fishes*

Barracudas	Sailfish
Blue marlin	Sharks
Dogtooth tuna	Skipjack tuna
Kawakawa (saba)	Spearfish
Mahimahi	Tunas (unknown)
Pelagic fishes (unknown)	Wahoo
Rainbow runner	Yellowfin tuna

B. *Bottomfishes*

Alfonsin	Kalikali (yellowtail)
Amberjack	Longnose emperor
Bigeye emperor	Lyretail grouper
Bigeye trevally	Marbled grouper
Black jack	Onaga (red snapper)
Blackspot emperor	Onespot snapper
Blacktip grouper	Opakapaka (pink snapper)
Blue-lined gindai	Orange spotted trevally
Blue-lined snapper	Orangefin emperor
Bluefin trevally	Peacock grouper
Bottomfishes (unknown)	Pink grouper
Brassy trevally	Red snapper
Ehu (red snapper)	Redgill emperor
Eight banded grouper	Saddleback grouper
Emperors	Sickle pomfret
Flagtail grouper	Silvermouth (deep lehi)
Flametail emperor	Smalltooth jobfish
Giant coral trout	Stout emperor
Giant trevally	Tomato grouper
Gindai (flower snapper)	White-edged lyretail grouper
Groupers	Yellow banded grouper
Highfin grouper	Yellow spotted trevally
Honeycomb grouper	Yelloweye opakapaka

B.5

Humpback snapper
Jacks
Jobfish (uku)

Yellowlips emperor
Yellowstripe emperor

C. *Reef Fishes*

Bigeye/glasseye
Bluebanded surgeonfish
Bluespine unicornfish
Butterflyfish
Convict tang
Dash & dot goatfish
Fusiliers
Goatfishes
Highfin rudderfish brown
Highfin rudderfish silver
Humphead wrasse
Orangespine unicornfish
Parrotfishes
Rabbitfishes

Reef fishes (unknown)
Shallow snappers
Soldierfishes
Squirrelfishes
Surgeonfishes
Sweetlips
Triggerfishes
Tripletail wrasse
Two-barred goatfish
Unicornfishes
Wrasses
Yellowfin surgeonfish
Yellowstripe goatfish

D. *Other Fishes*

Bigeye scad
Clams/bivalves
Coconut crab
Crabs
Eels (freshwater)
Invertebrates
Kona crab
Lemu
Milkfish
Miscellaneous
Mullet

Octopus
Sea cucumbers
Seaweeds
Shrimp (freshwater)
Shrimp (saltwater)
Slipper lobster
Spiny lobster
Squid
Trochus
Turtle

B.6

Table B-1
CNMI Annual 2010 Estimated Commercial Landings

Species	Pounds	Value (\$)	Price/Lb (\$)
Bigeye scad	12,847	33,994	2.65
Jacks	792	2,114	2.67
Mullet	394	1,013	2.57
Black jack	594	1,606	2.70
Giant trevally	64	177	2.75
Orange spotted trevally	67	167	2.50
Bottomfishes (unknown)	428	1,069	2.50
Sickle pomfret	317	1,307	4.13
Ehu (red snapper)	2,916	11,503	3.94
Gindai (flower snapper)	459	1,883	4.10
Groupers	222	599	2.70
Kalikali (yellowtail)	1,146	3,385	2.95
Onaga (red snapper)	2,674	12,661	4.74
Opakapaka (pink snapper)	1,992	6,108	3.07
Jobfish (uku)	1,101	2,361	2.14
Silvermouth (deep lehi)	1,633	5,364	3.28
Amberjack	658	1,991	3.03
Blue-lined snapper	1,492	3,908	2.62
Reef fishes (unknown)	30,971	77,489	2.50
Rabbitfishes	3,251	9,594	2.95
Emperors	6,104	15,315	2.51
Squirrelfishes	416	1,063	2.55
Parrotfishes	16,220	48,933	3.02
Surgeonfishes	4,430	9,165	2.07
Orangespine unicornfish	1,123	2,809	2.50
Unicornfishes	984	2,452	2.49
Goatfishes	1,331	4,665	3.51
Bigeye emperor	53	133	2.50
Bluebanded surgeonfish	717	1,433	2.00
Bluespine unicornfish	462	1,212	2.62
Mahimahi	23,157	43,562	1.88
Blue marlin	73	147	2.00
Sailfish	544	817	1.50
Rainbow runner	679	1,449	2.13
Wahoo	2,887	5,693	1.97
Skipjack tuna	124,096	215,946	1.74
Dogtooth tuna	5,822	10,586	1.82
Yellowfin tuna	30,507	59,913	1.96
Kawakawa (saba)	268	428	1.60
Spiny lobster	659	3,208	4.87
Octopus	813	1,702	2.09
Squid	14	48	3.50
TOTAL	285,378	608,971	2.13

Table B-2
CNMI January 2010 Estimated Commercial Landings

Species	Pounds	Value (\$)	Price/Lb (\$)
Bigeye scad	1,642	4,147	2.53
Ehu (red snapper)	272	997	3.66
Kalikali (yellowtail)	44	122	2.75
Onaga (red snapper)	87	347	4.00
Opakapaka (pink snapper)	191	512	2.68
Jobfish (uku)	60	100	1.67
Silvermouth (deep lehi)	316	789	2.50
Amberjack	21	58	2.75
Blue-lined snapper	90	225	2.50
Reef fishes (unknown)	2,356	6,003	2.55
Rabbitfishes	330	1,039	3.15
Emperors	198	494	2.50
Parrotfishes	1,228	3,851	3.14
Surgeonfishes	151	302	2.00
Unicornfishes	58	144	2.50
Goatfishes	51	128	2.50
Bigeye emperor	53	133	2.50
Mahimahi	6,042	9,522	1.58
Wahoo	448	871	1.94
Skipjack tuna	15,782	26,145	1.66
Dogtooth tuna	1,811	2,742	1.51
Yellowfin tuna	4,381	8,640	1.97
Octopus	72	144	2.00
TOTAL	35,686	67,456	1.89

B.8

Table B-3
CNMI February 2010 Estimated Commercial Landings

Species	Pounds	Value (\$)	Price/Lb (\$)
Bigeye scad	240	609	2.54
Jacks	211	528	2.50
Mullet	31	78	2.50
Black jack	37	101	2.75
Bottomfishes (unknown)	193	483	2.50
Sickle pomfret	117	345	2.96
Ehu (red snapper)	1,116	4,249	3.81
Gindai (flower snapper)	64	244	3.79
Kalikali (yellowtail)	218	571	2.62
Onaga (red snapper)	513	2,519	4.91
Opakapaka (pink snapper)	313	858	2.74
Jobfish (uku)	327	639	1.96
Silvermouth (deep lehi)	68	190	2.81
Blue-lined snapper	399	997	2.50
Reef fishes (unknown)	1,871	4,678	2.50
Rabbitfishes	271	820	3.03
Emperors	1,962	4,906	2.50
Squirrelfishes	18	44	2.50
Parrotfishes	106	300	2.84
Surgeonfishes	168	336	2.00
Mahimahi	7,594	10,962	1.44
Rainbow runner	184	390	2.11
Wahoo	967	1,953	2.02
Skipjack tuna	13,477	20,765	1.54
Dogtooth tuna	1,314	2,034	1.55
Yellowfin tuna	6,339	12,600	1.99
Spiny lobster	6	32	5.00
Octopus	33	67	2.00
TOTAL	38,159	72,300	1.89

Table B-4
CNMI March 2010 Estimated Commercial Landings

Species	Pounds	Value (\$)	Price/Lb (\$)
Mullet	9	22	2.50
Black jack	102	307	3.00
Bottomfishes (unknown)	7	17	2.50
Sickle pomfret	76	264	3.50
Ehu (red snapper)	30	122	4.00
Onaga (red snapper)	213	1,038	4.86
Opakapaka (pink snapper)	167	465	2.79
Jobfish (uku)	100	218	2.18
Blue-lined snapper	133	336	2.52
Reef fishes (unknown)	1,887	4,695	2.49
Rabbitfishes	146	446	3.05
Emperors	1,021	2,692	2.64
Squirrelfishes	54	112	2.06
Parrotfishes	159	477	3.00
Surgeonfishes	96	206	2.15
Orangespine unicornfish	38	94	2.50
Unicornfishes	124	311	2.50
Goatfishes	64	168	2.60
Mahimahi	3,243	9,854	3.04
Wahoo	1,294	2,589	2.00
Skipjack tuna	15,554	28,016	1.80
Dogtooth tuna	98	191	1.95
Yellowfin tuna	3,612	7,224	2.00
Kawakawa (saba)	21	42	2.00
Octopus	114	229	2.00
TOTAL	28,364	60,134	2.12

Table B-5
CNMI April 2010 Estimated Commercial Landings

Species	Pounds	Value (\$)	Price/Lb (\$)
Bigeye scad	698	1,826	2.62
Jacks	60	150	2.50
Black jack	17	42	2.50
Ehu (red snapper)	16	62	4.00
Gindai (flower snapper)	59	236	4.00
Groupers	69	138	2.00
Kalikali (yellowtail)	83	208	2.50
Onaga (red snapper)	160	800	5.00
Opakapaka (pink snapper)	146	400	2.75
Jobfish (uku)	161	322	2.00
Silvermouth (deep lehi)	148	386	2.61
Amberjack	66	166	2.50
Blue-lined snapper	22	56	2.50
Reef fishes (unknown)	2,553	6,383	2.50
Rabbitfishes	63	180	2.84
Emperors	707	1,767	2.50
Squirrelfishes	36	89	2.50
Parrotfishes	773	2,293	2.97
Surgeonfishes	530	1,060	2.00
Unicornfishes	20	50	2.50
Goatfishes	31	78	2.50
Mahimahi	1,776	3,220	1.81
Blue marlin	73	147	2.00
Rainbow runner	37	73	2.00
Skipjack tuna	11,522	17,057	1.48
Dogtooth tuna	160	240	1.50
Yellowfin tuna	3,628	6,733	1.86
Octopus	273	546	2.00
TOTAL	23,886	44,707	1.87

Table B-6
CNMI May 2010 Estimated Commercial Landings

Species	Pounds	Value (\$)	Price/Lb (\$)
Bigeye scad	3,889	9,661	2.48
Jacks	100	250	2.50
Mullet	73	183	2.50
Black jack	58	144	2.50
Bottomfishes (unknown)	103	258	2.50
Ehu (red snapper)	239	890	3.72
Gindai (flower snapper)	113	434	3.83
Groupers	83	208	2.50
Kalikali (yellowtail)	229	572	2.50
Onaga (red snapper)	310	1,330	4.29
Opakapaka (pink snapper)	522	1,412	2.70
Jobfish (uku)	136	227	1.67
Silvermouth (deep lehi)	287	772	2.69
Amberjack	31	76	2.50
Blue-lined snapper	246	614	2.50
Reef fishes (unknown)	2,062	5,154	2.50
Rabbitfishes	338	930	2.75
Emperors	709	1,689	2.38
Squirrelfishes	110	275	2.50
Parrotfishes	1,429	4,263	2.98
Surgeonfishes	718	1,535	2.14
Orangespine unicornfish	192	481	2.50
Unicornfishes	268	663	2.47
Goatfishes	269	672	2.50
Mahimahi	1,739	3,372	1.94
Rainbow runner	84	169	2.00
Skipjack tuna	9,938	14,608	1.47
Dogtooth tuna	464	744	1.60
Yellowfin tuna	2,959	5,529	1.87
Spiny lobster	129	644	5.00
Octopus	19	38	2.00
TOTAL	27,846	57,799	2.08

Table B-7
CNMI June 2010 Estimated Commercial Landings

Species	Pounds	Value (\$)	Price/Lb (\$)
Bigeye scad	814	2,231	2.74
Jacks	8	19	2.50
Mullet	12	31	2.50
Black jack	80	200	2.50
Orange spotted trevally	18	44	2.50
Sickle pomfret	24	61	2.50
Ehu (red snapper)	529	1,991	3.76
Gindai (flower snapper)	136	542	4.00
Kalikali (yellowtail)	67	167	2.50
Onaga (red snapper)	658	2,972	4.52
Opakapaka (pink snapper)	249	676	2.72
Jobfish (uku)	87	130	1.50
Silvermouth (deep lehi)	122	324	2.65
Amberjack	70	175	2.50
Blue-lined snapper	22	56	2.50
Reef fishes (unknown)	2,912	7,250	2.49
Rabbitfishes	208	597	2.88
Emperors	210	526	2.50
Squirrelfishes	114	284	2.50
Parrotfishes	2,530	7,589	3.00
Surgeonfishes	536	1,116	2.08
Orangespine unicornfish	221	552	2.50
Unicornfishes	367	917	2.50
Goatfishes	149	372	2.50
Bluebanded surgeonfish	98	196	2.00
Mahimahi	397	783	1.97
Sailfish	178	267	1.50
Rainbow runner	60	120	2.00
Skipjack tuna	9,842	14,952	1.52
Dogtooth tuna	104	157	1.50
Yellowfin tuna	4,024	7,179	1.78
Spiny lobster	234	1,172	5.00
Octopus	44	97	2.20
TOTAL	25,122	53,745	2.14

B.13

Table B-8
CNMI July 2010 Estimated Commercial Landings

Species	Pounds	Value (\$)	Price/Lb (\$)
Bigeye scad	83	229	2.75
Mullet	67	167	2.50
Black jack	49	122	2.50
Ehu (red snapper)	147	528	3.60
Kalikali (yellowtail)	44	111	2.50
Opakapaka (pink snapper)	34	95	2.75
Reef fishes (unknown)	4,019	10,047	2.50
Rabbitfishes	226	682	3.02
Emperors	222	556	2.50
Parrotfishes	1,194	3,583	3.00
Surgeonfishes	770	1,553	2.02
Orangespine unicornfish	102	256	2.50
Goatfishes	27	67	2.50
Bluespine unicornfish	53	133	2.50
Mahimahi	89	178	2.00
Sailfish	33	50	1.50
Rainbow runner	33	70	2.10
Wahoo	24	43	1.75
Skipjack tuna	7,879	14,147	1.80
Dogtooth tuna	153	307	2.00
Yellowfin tuna	708	1,416	2.00
Spiny lobster	96	478	5.00
Octopus	27	53	2.00
TOTAL	16,080	34,869	2.17

Table B-9
CNMI August 2010 Estimated Commercial Landings

Species	Pounds	Value (\$)	Price/Lb (\$)
Bigeye scad	1,329	3,636	2.74
Jacks	58	144	2.50
Mullet	24	61	2.50
Black jack	77	193	2.50
Orange spotted trevally	49	122	2.50
Bottomfishes (unknown)	69	172	2.50
Ehu (red snapper)	266	998	3.76
Groupers	18	44	2.50
Kalikali (yellowtail)	49	122	2.50
Onaga (red snapper)	258	1,195	4.64
Opakapaka (pink snapper)	44	111	2.50
Silvermouth (deep lehi)	52	129	2.50
Blue-lined snapper	111	278	2.50
Reef fishes (unknown)	3,768	9,419	2.50
Rabbitfishes	613	1,793	2.92
Emperors	628	1,569	2.50
Parrotfishes	2,519	7,557	3.00
Surgeonfishes	684	1,392	2.04
Orangespine unicornfish	67	167	2.50
Unicornfishes	27	67	2.50
Goatfishes	89	222	2.50
Mahimahi	151	302	2.00
Sailfish	33	50	1.50
Rainbow runner	90	150	1.66
Skipjack tuna	9,047	17,604	1.95
Dogtooth tuna	253	507	2.00
Yellowfin tuna	850	1,700	2.00
Kawakawa (saba)	216	323	1.50
Spiny lobster	71	356	5.00
Octopus	79	159	2.00
TOTAL	21,588	50,541	2.34

Table B-10
CNMI September 2010 Estimated Commercial Landings

Species	Pounds	Value (\$)	Price/Lb (\$)
Bigeye scad	1,820	4,886	2.68
Jacks	95	238	2.50
Mullet	60	150	2.50
Black jack	40	100	2.50
Giant trevally	64	177	2.75
Ehu (red snapper)	80	287	3.58
Gindai (flower snapper)	77	268	3.50
Kalikali (yellowtail)	110	275	2.50
Onaga (red snapper)	242	1,027	4.25
Opakapaka (pink snapper)	81	220	2.71
Jobfish (uku)	33	67	2.00
Silvermouth (deep lehi)	109	272	2.50
Amberjack	29	72	2.50
Blue-lined snapper	200	500	2.50
Reef fishes (unknown)	3,365	8,412	2.50
Rabbitfishes	450	1,336	2.97
Emperors	82	206	2.50
Parrotfishes	2,435	7,304	3.00
Surgeonfishes	278	582	2.10
Orangespine unicornfish	138	344	2.50
Unicornfishes	120	300	2.50
Goatfishes	73	183	2.50
Bluebanded surgeonfish	155	310	2.00
Mahimahi	102	186	1.82
Sailfish	33	50	1.50
Wahoo	58	116	2.00
Skipjack tuna	9,734	18,785	1.93
Dogtooth tuna	164	329	2.00
Yellowfin tuna	1,156	2,311	2.00
Kawakawa (saba)	31	62	2.00
Spiny lobster	28	139	5.00
Octopus	21	42	2.00
TOTAL	21,463	49,534	2.31

Table B-11
CNMI October 2010 Estimated Commercial Landings

Species	Pounds	Value (\$)	Price/Lb (\$)
Bigeye scad	1,129	3,236	2.87
Mullet	38	94	2.50
Black jack	27	67	2.50
Bottomfishes (unknown)	56	139	2.50
Jobfish (uku)	22	44	2.00
Blue-lined snapper	36	89	2.50
Reef fishes (unknown)	2,890	7,224	2.50
Rabbitfishes	236	676	2.87
Emperors	364	911	2.50
Parrotfishes	2,123	6,368	3.00
Surgeonfishes	196	419	2.14
Orangespine unicornfish	93	233	2.50
Goatfishes	53	133	2.50
Bluebanded surgeonfish	272	544	2.00
Bluespine unicornfish	304	783	2.57
Mahimahi	98	196	2.00
Sailfish	33	50	1.50
Rainbow runner	100	200	2.00
Skipjack tuna	5,694	11,323	1.99
Dogtooth tuna	67	100	1.50
Yellowfin tuna	388	828	2.13
Spiny lobster	91	373	4.10
TOTAL	14,309	34,030	2.38

Table B-12
CNMI November 2010 Estimated Commercial Landings

Species	Pounds	Value (\$)	Price/Lb (\$)
Bigeye scad	1,036	3,075	2.97
Jacks	138	344	2.50
Mullet	27	67	2.50
Black jack	27	67	2.50
Reef fishes (unknown)	1,526	3,814	2.50
Rabbitfishes	209	580	2.78
Parrotfishes	933	2,798	3.00
Surgeonfishes	251	531	2.12
Orangespine unicornfish	157	379	2.42
Goatfishes	22	56	2.50
Bluebanded surgeonfish	96	191	2.00
Mahimahi	227	453	2.00
Wahoo	49	122	2.50
Skipjack tuna	7,631	13,921	1.82
Dogtooth tuna	133	267	2.00
Yellowfin tuna	462	924	2.00
Octopus	24	49	2.00
TOTAL	12,946	27,637	2.13

Table B-13
CNMI December 2010 Estimated Commercial Landings

Species	Pounds	Value (\$)	Price/Lb (\$)
Bigeye scad	167	458	2.75
Jacks	123	441	3.59
Mullet	53	160	3.00
Black jack	81	264	3.25
Sickle pomfret	100	636	6.36
Ehu (red snapper)	221	1,380	6.25
Gindai (flower snapper)	11	158	15.0
Groupers	52	209	4.00
Kalikali (yellowtail)	301	1,236	4.10
Onaga (red snapper)	233	1,434	6.15
Opakapaka (pink snapper)	244	1,358	5.56
Jobfish (uku)	176	613	3.49
Silvermouth (deep lehi)	533	2,501	4.69
Amberjack	441	1,444	3.27
Blue-lined snapper	233	758	3.25
Reef fishes (unknown)	1,764	4,410	2.50
Rabbitfishes	162	517	3.18
Squirrelfishes	84	258	3.05
Parrotfishes	792	2,550	3.22
Surgeonfishes	53	133	2.50
Orangespine unicornfish	116	304	2.63
Goatfishes	502	2,587	5.16
Bluebanded surgeonfish	97	193	2.00
Bluespine unicornfish	104	295	2.82
Mahimahi	1,699	4,534	2.67
Sailfish	233	350	1.50
Rainbow runner	90	276	3.07
Wahoo	47	0	0.00
Skipjack tuna	7,996	18,624	2.33
Dogtooth tuna	1,099	2,968	2.70
Yellowfin tuna	2,000	4,829	2.41
Spiny lobster	3	13	4.00
Octopus	106	278	2.64
Squid	14	48	3.50
TOTAL	19,930	56,217	2.82

The following are summary charts of the major species and species groups by month:

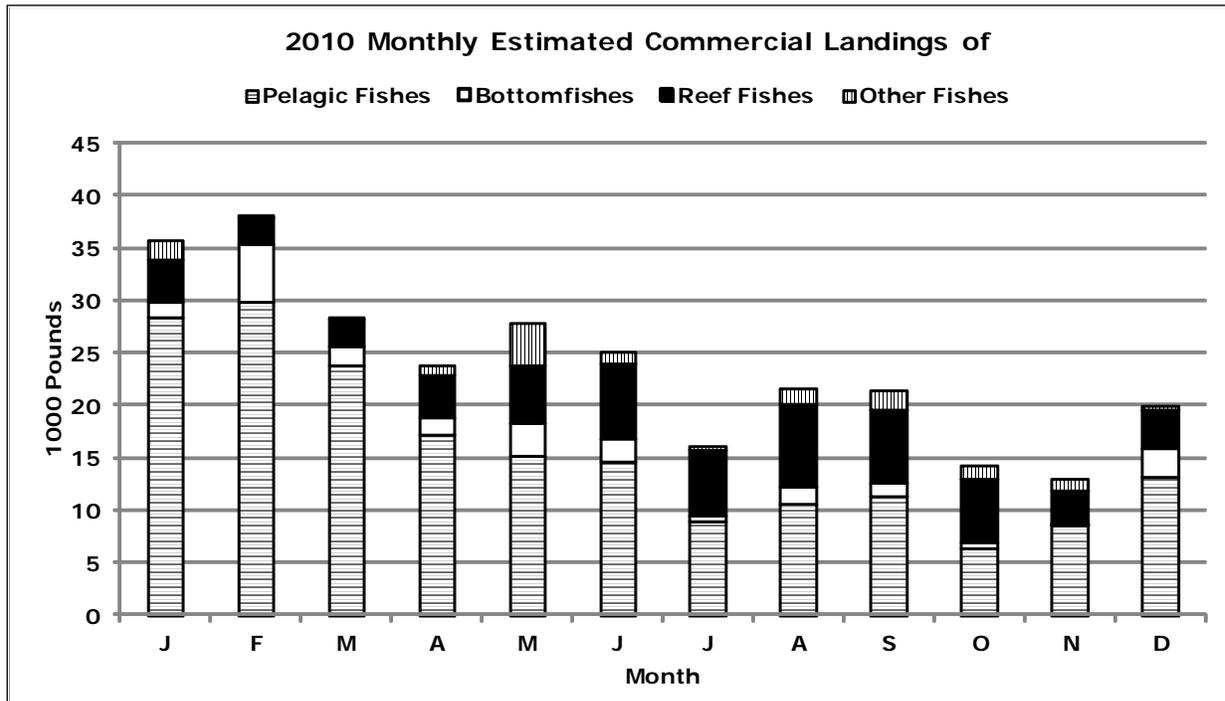


Figure B-1-1

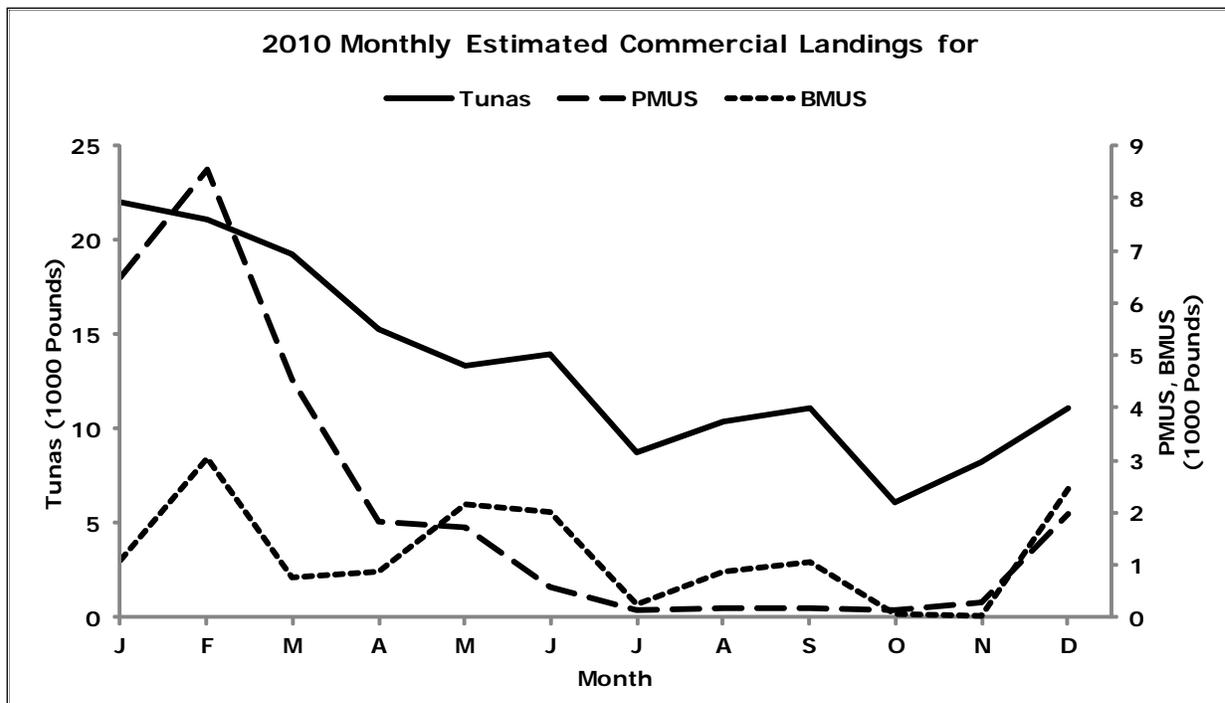


Figure B-1-2

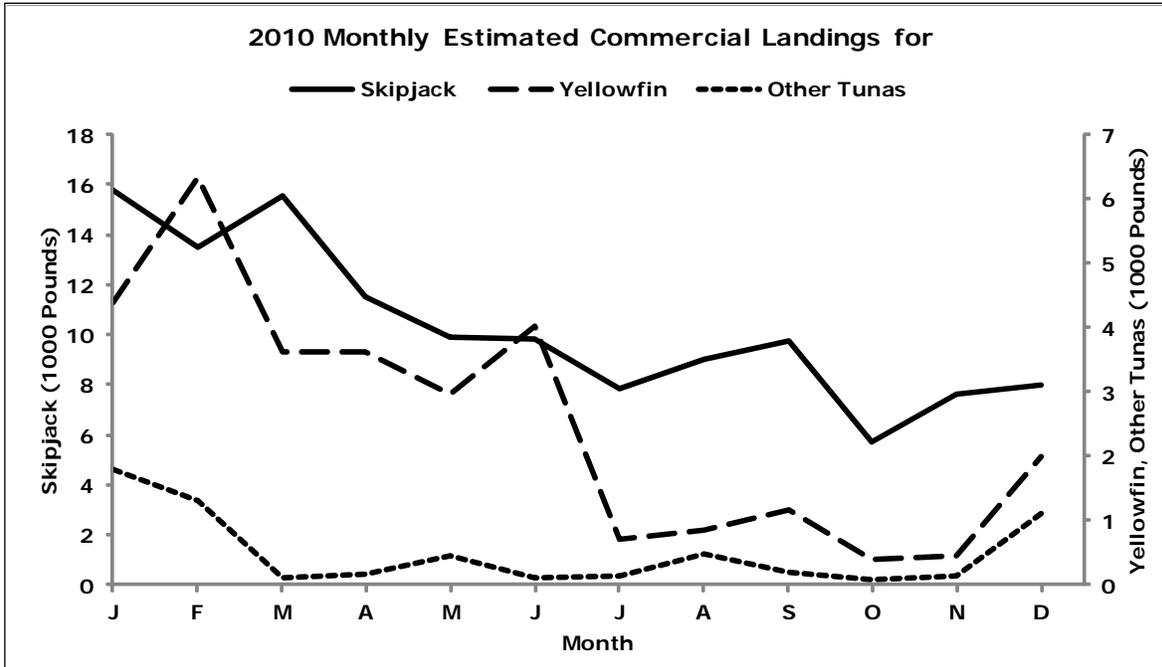


Figure B-1-3

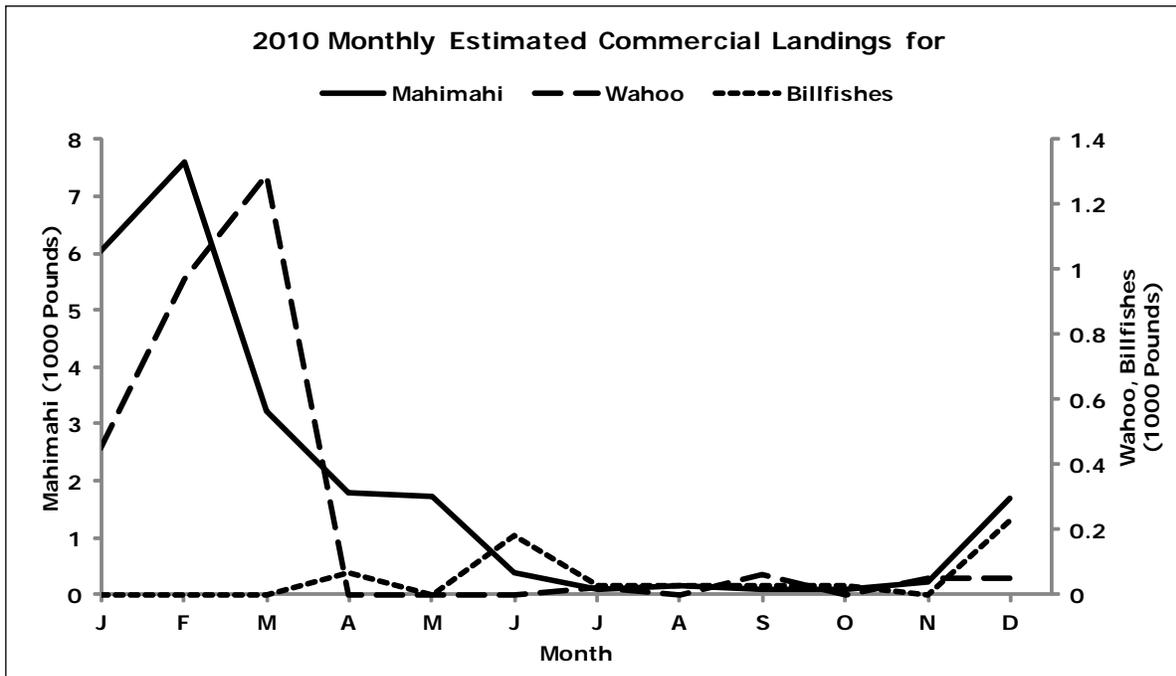


Figure B-1-4

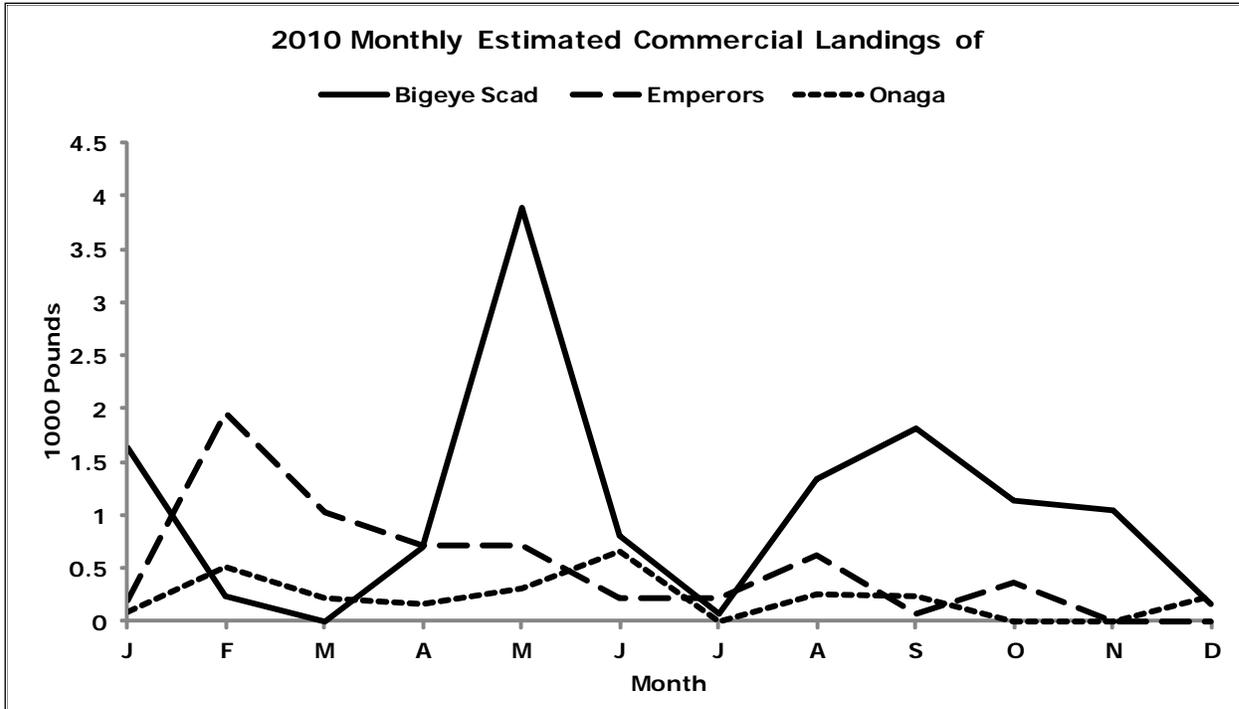


Figure B-1-5

The following are seasonality plots for the major species or species groups, showing the average weight landed during each month for all years combined:

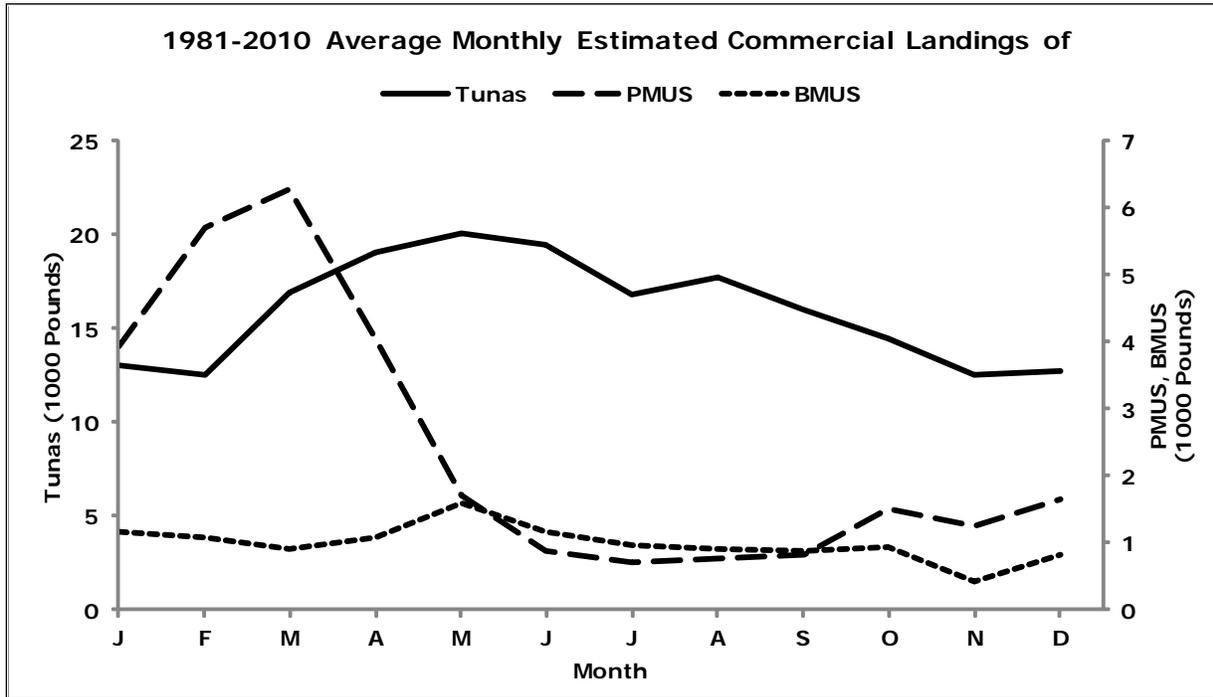


Figure B-2-1

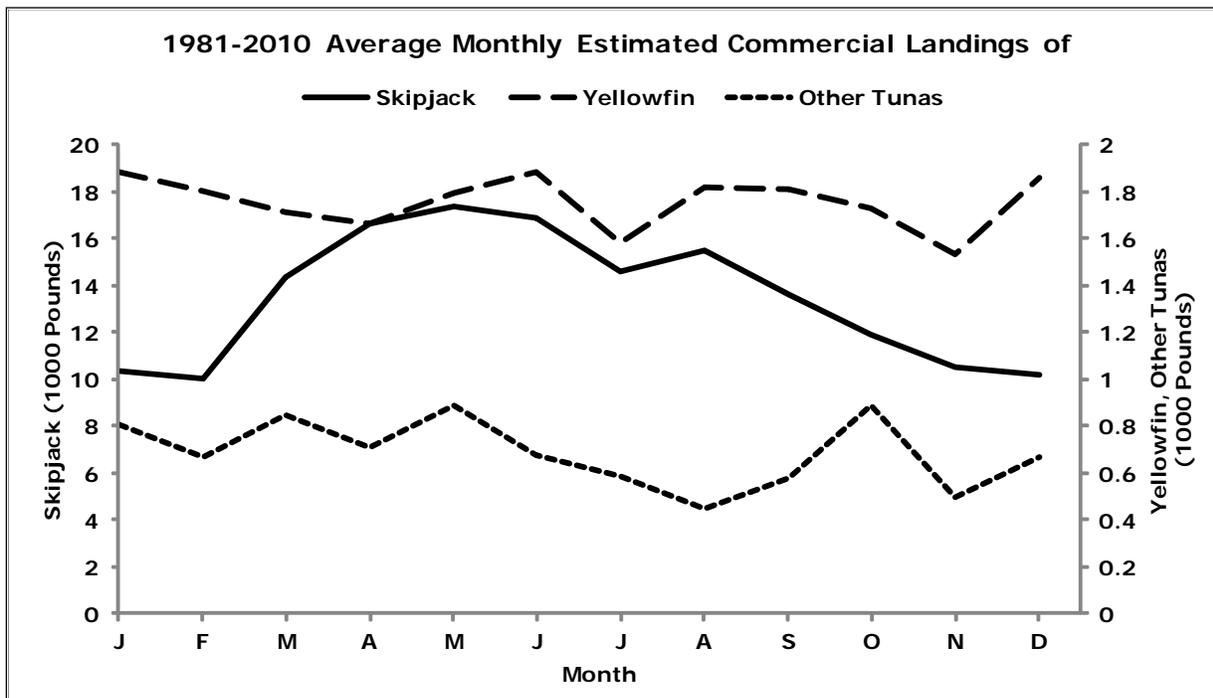


Figure B-2-2

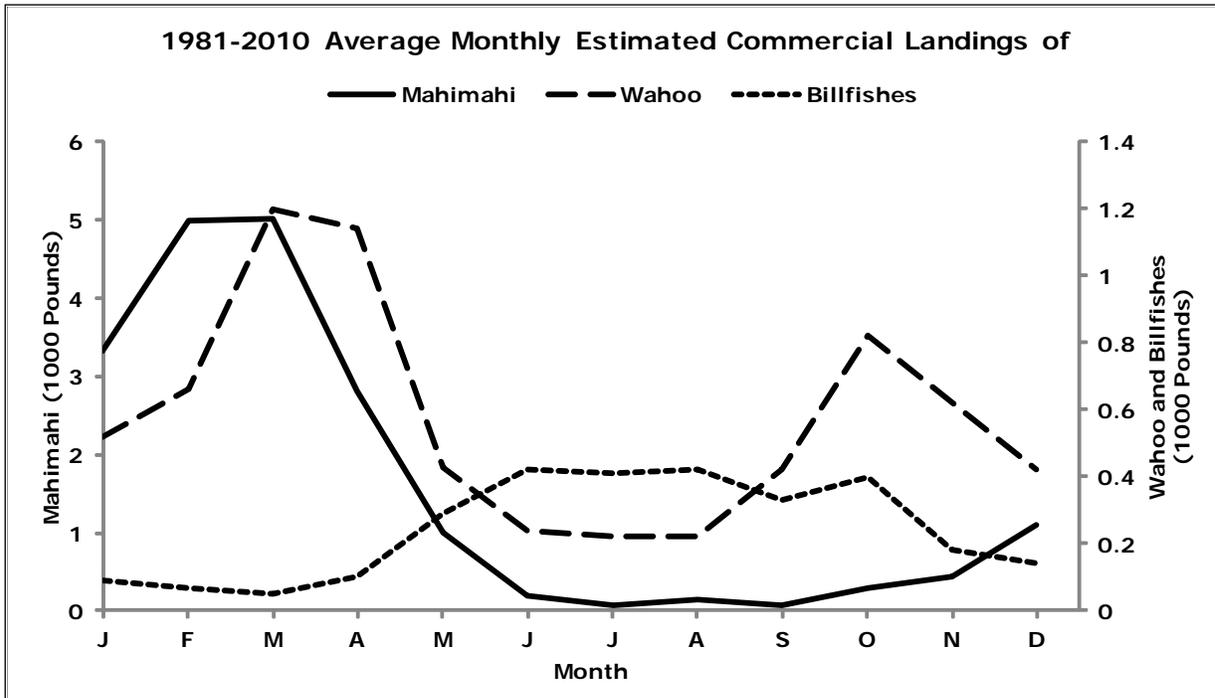


Figure B-2-3

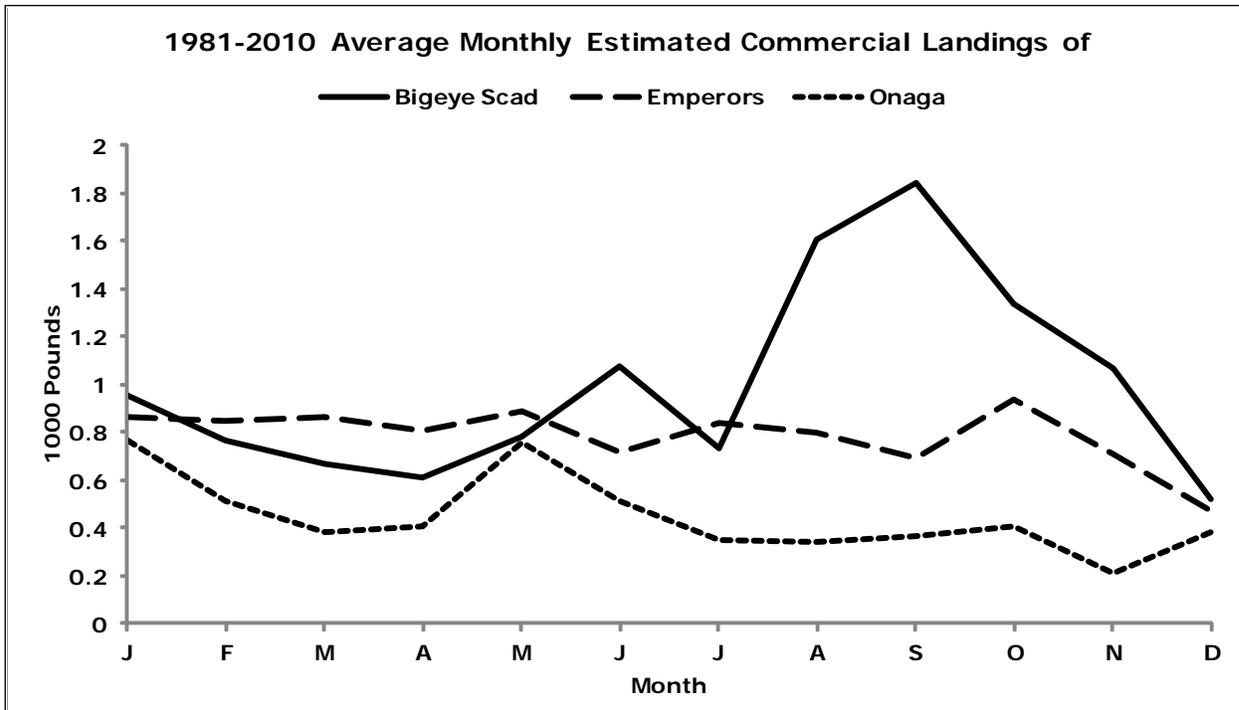


Figure B-2-4

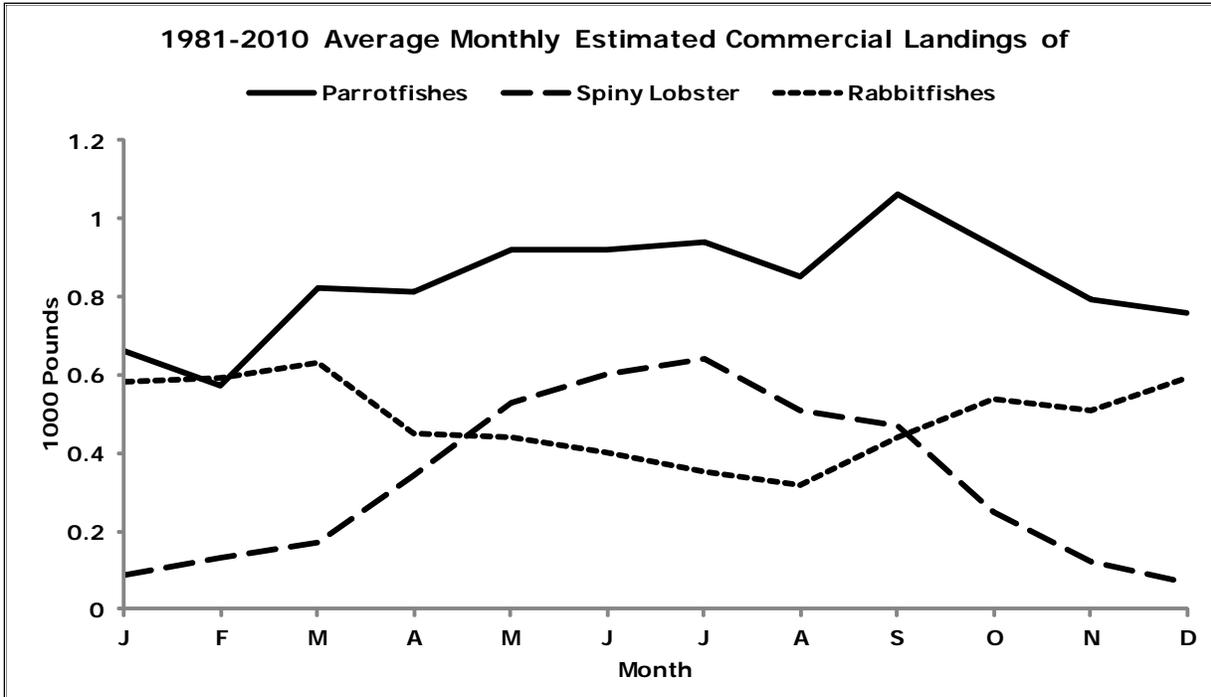


Figure B-2-5

The following graphs plot annual summary statistics to illustrate the variability among years:

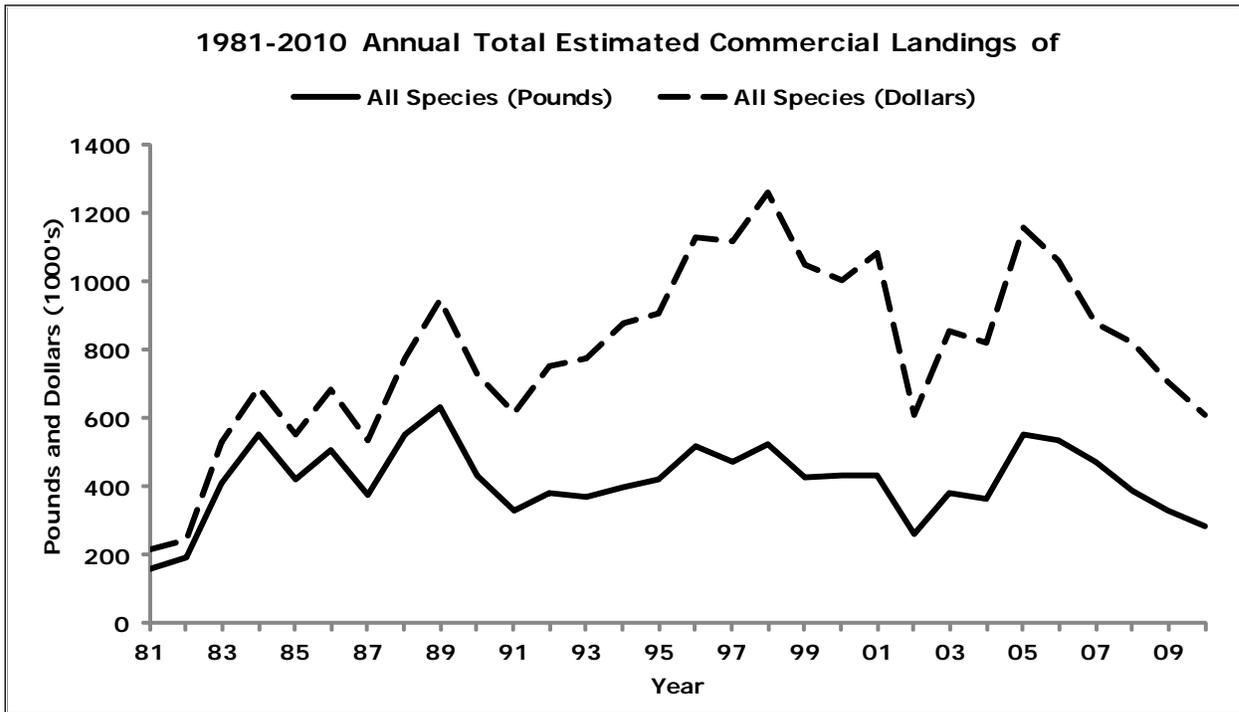


Figure B-3-1

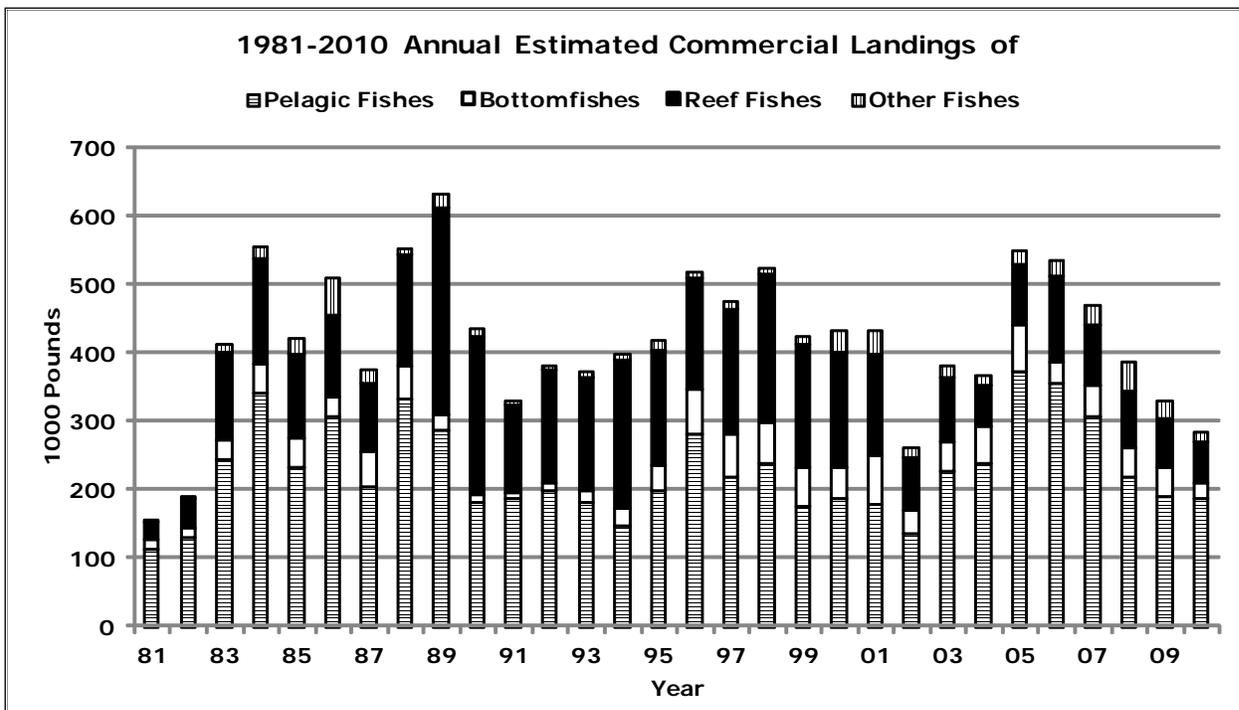


Figure B-3-2

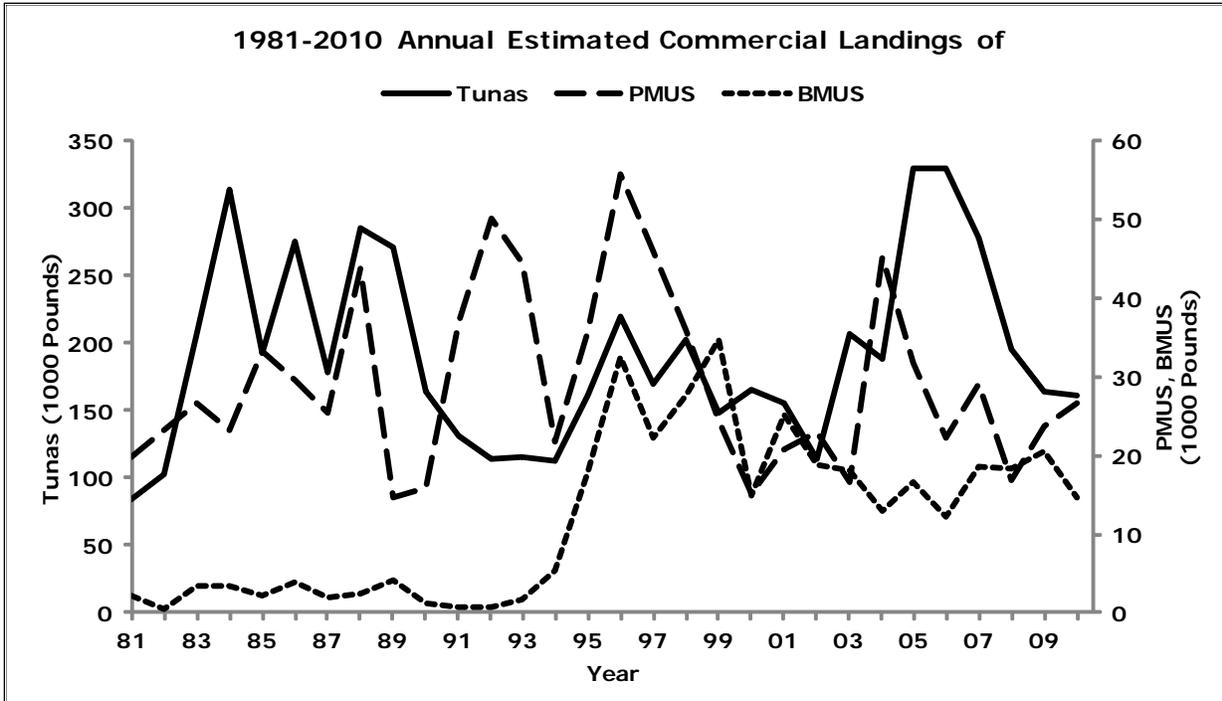


Figure B-3-3

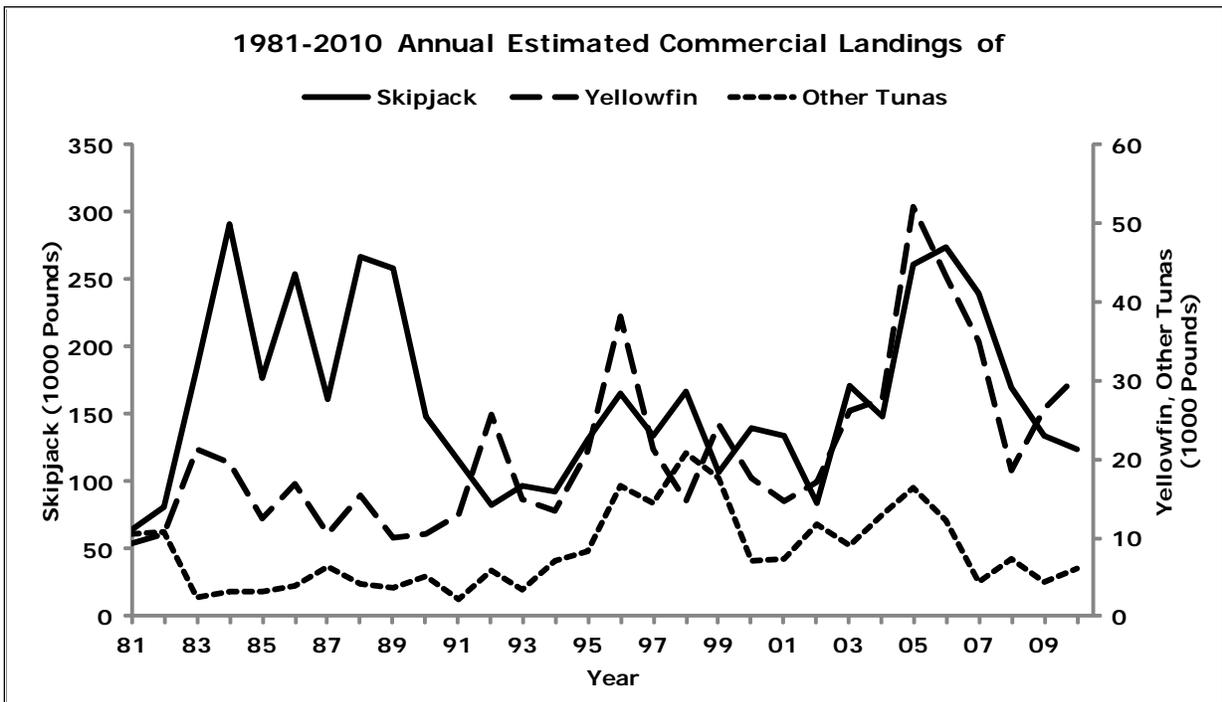


Figure B-3-4

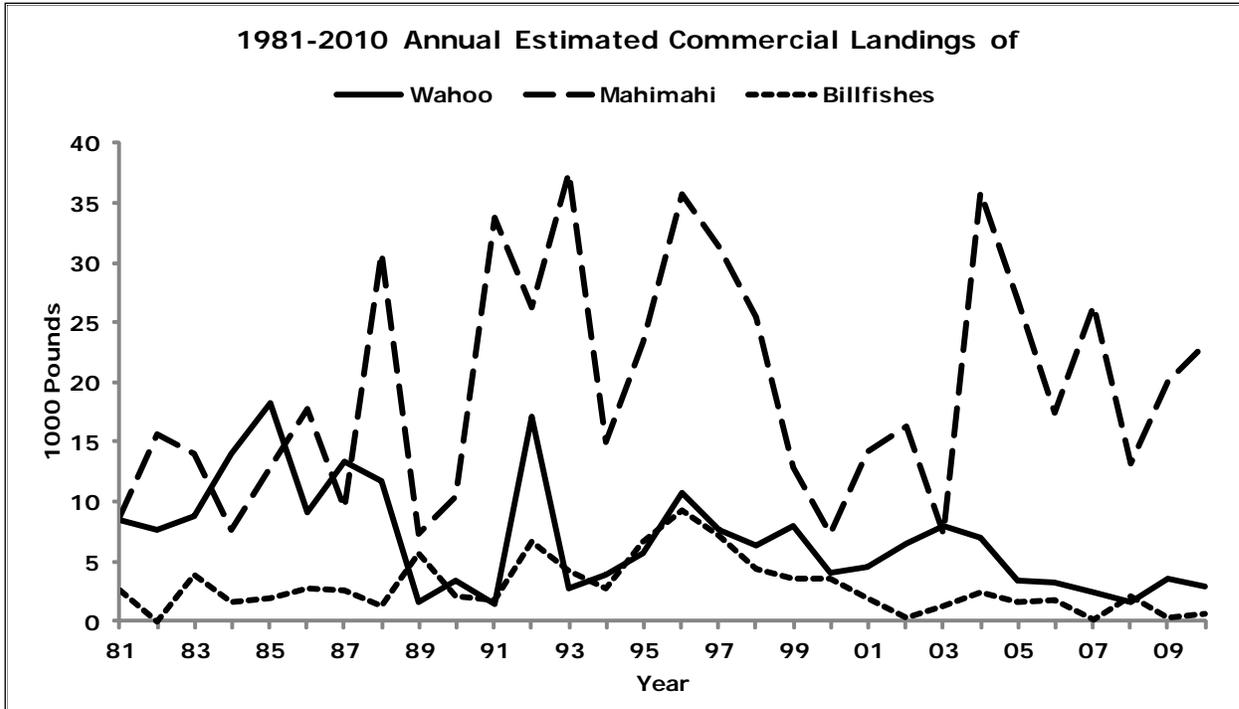


Figure B-3-5

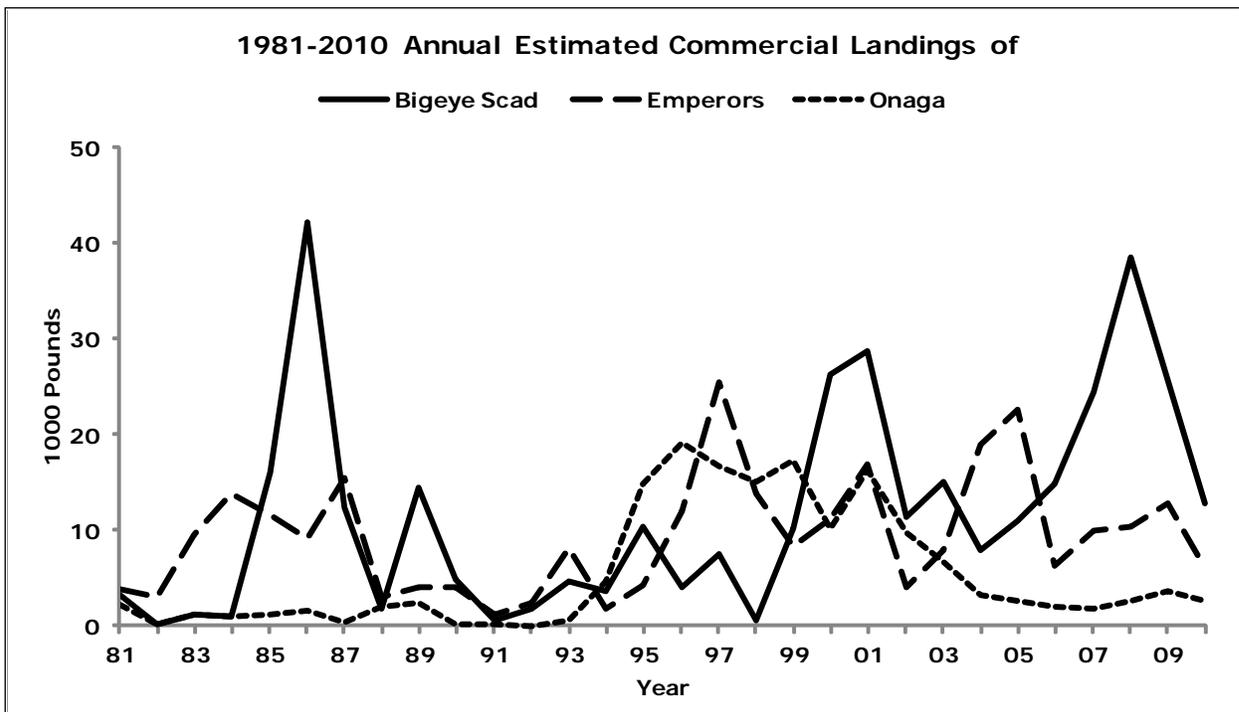


Figure B-3-6

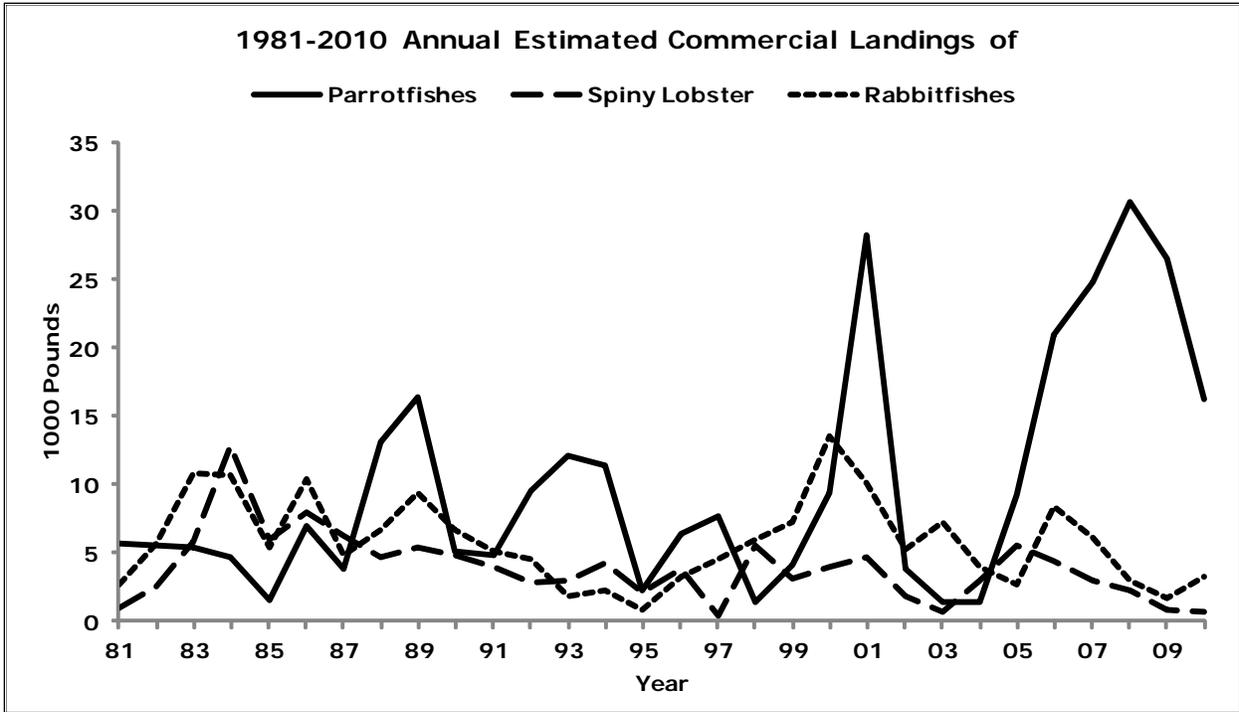


Figure B-3-7

The following graphs plot the monthly landings of some of the major commercially important species and document monthly fluctuations in landings of these species over the time series:

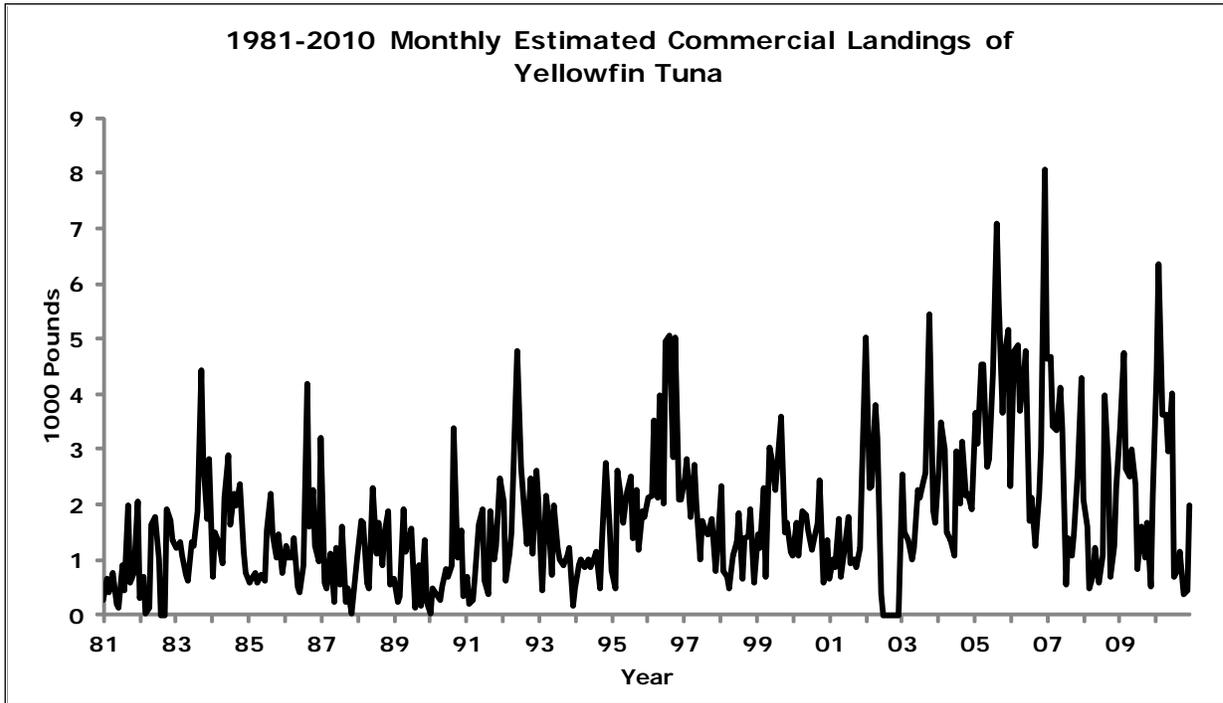


Figure B-4-1

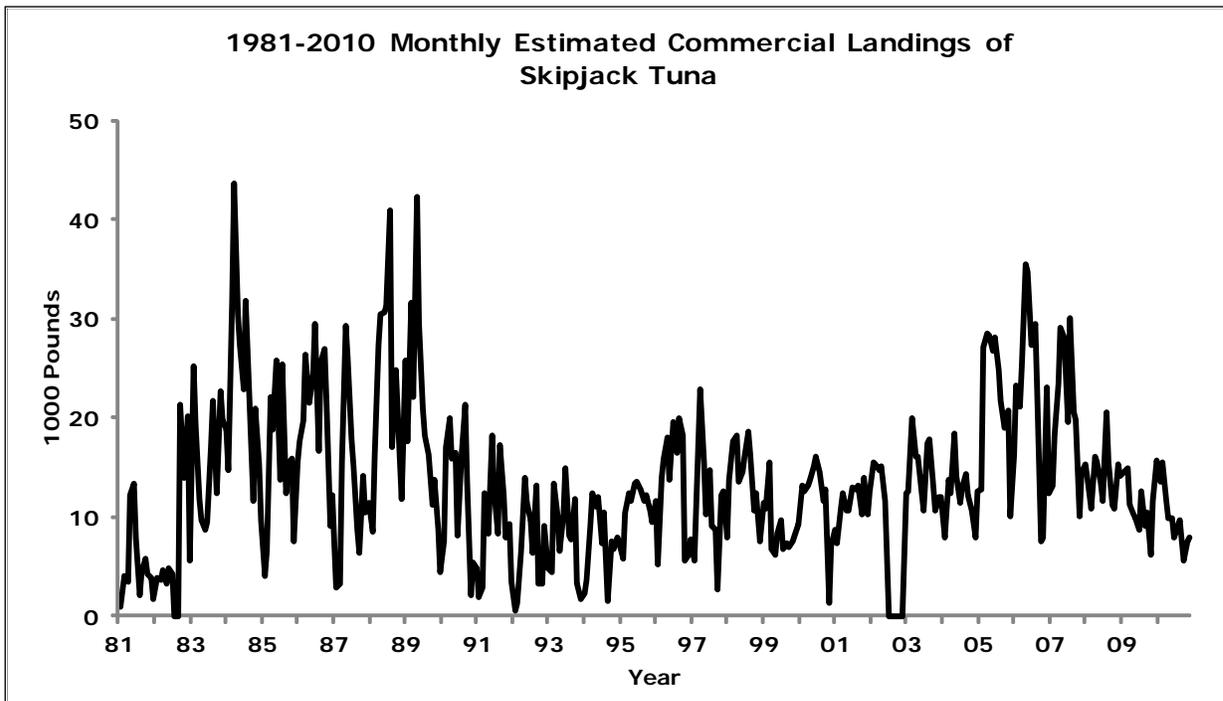


Figure B-4-2

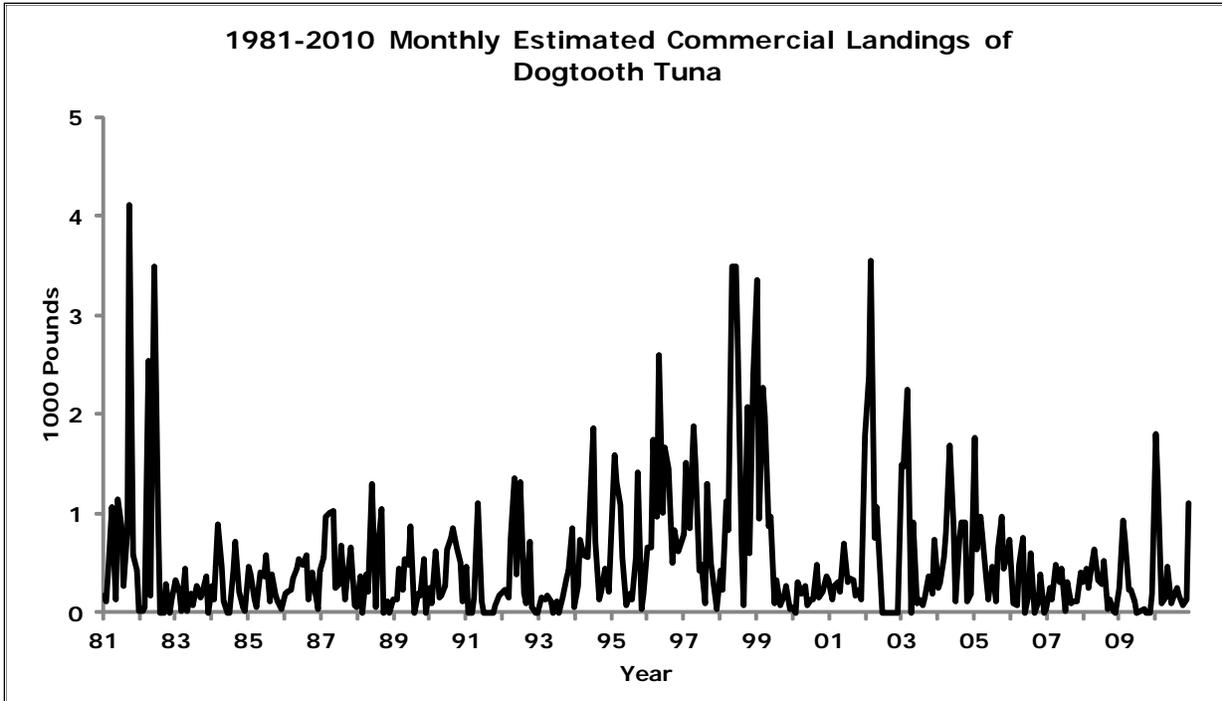


Figure B-4-3

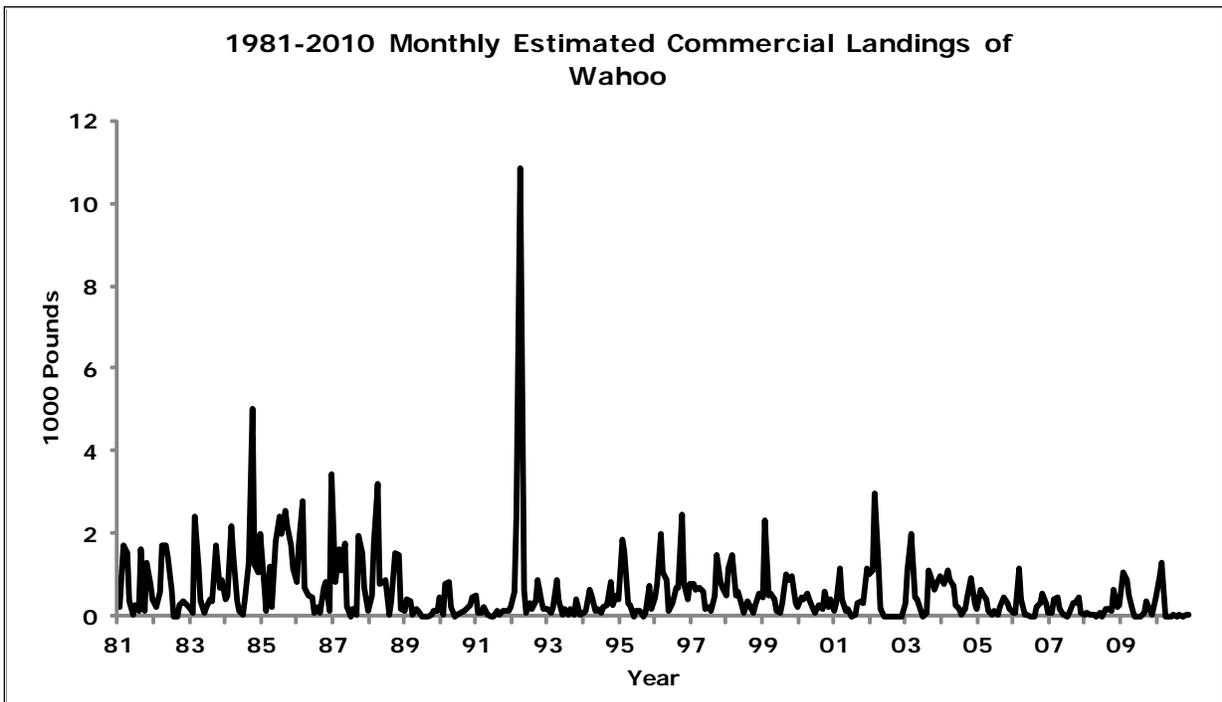


Figure B-4-4

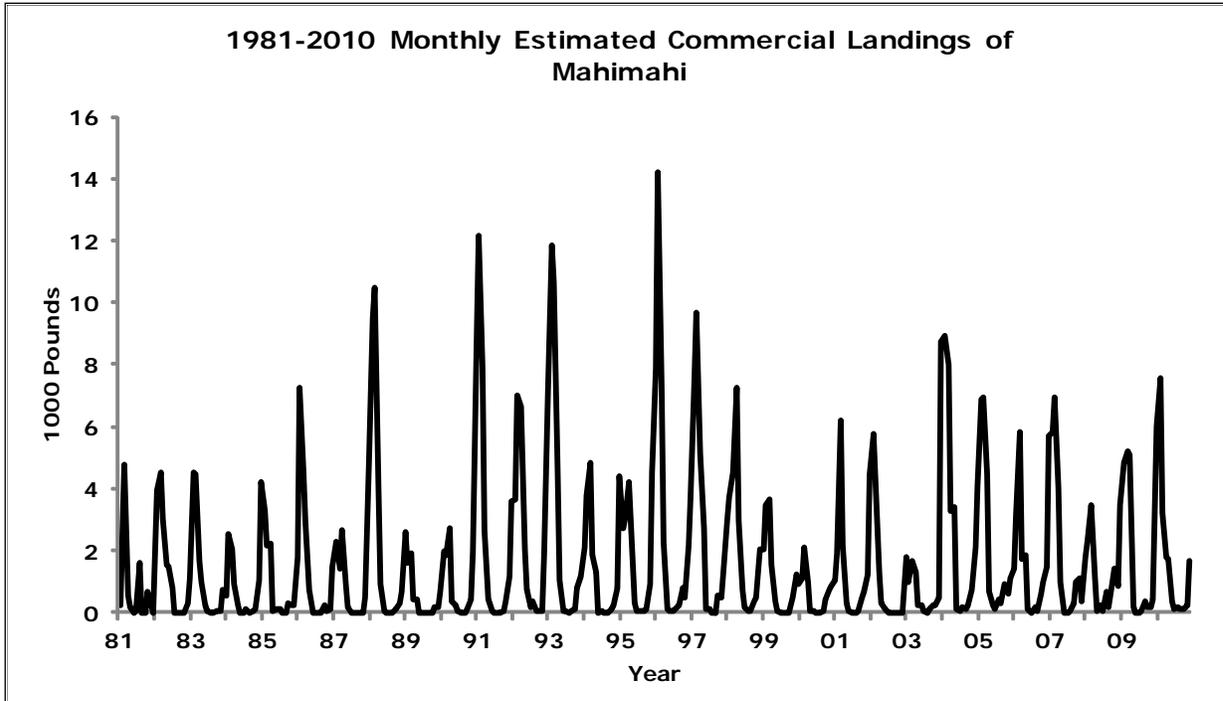


Figure B-4-5

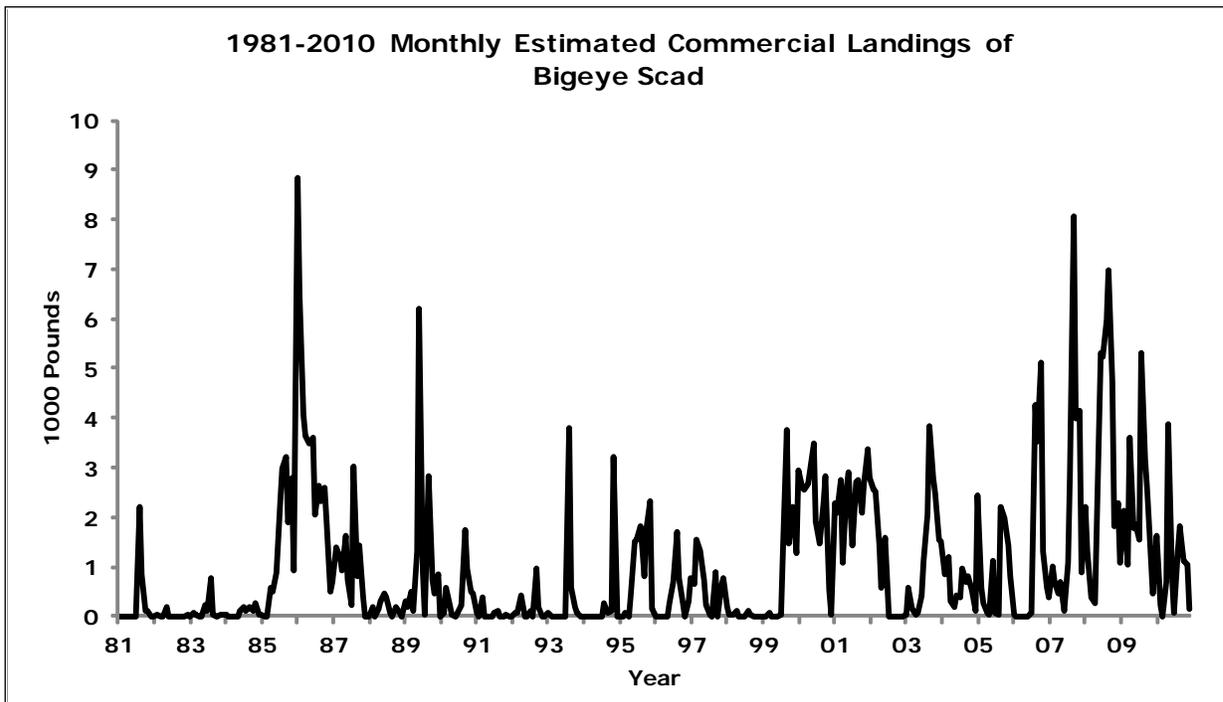


Figure B-4-6

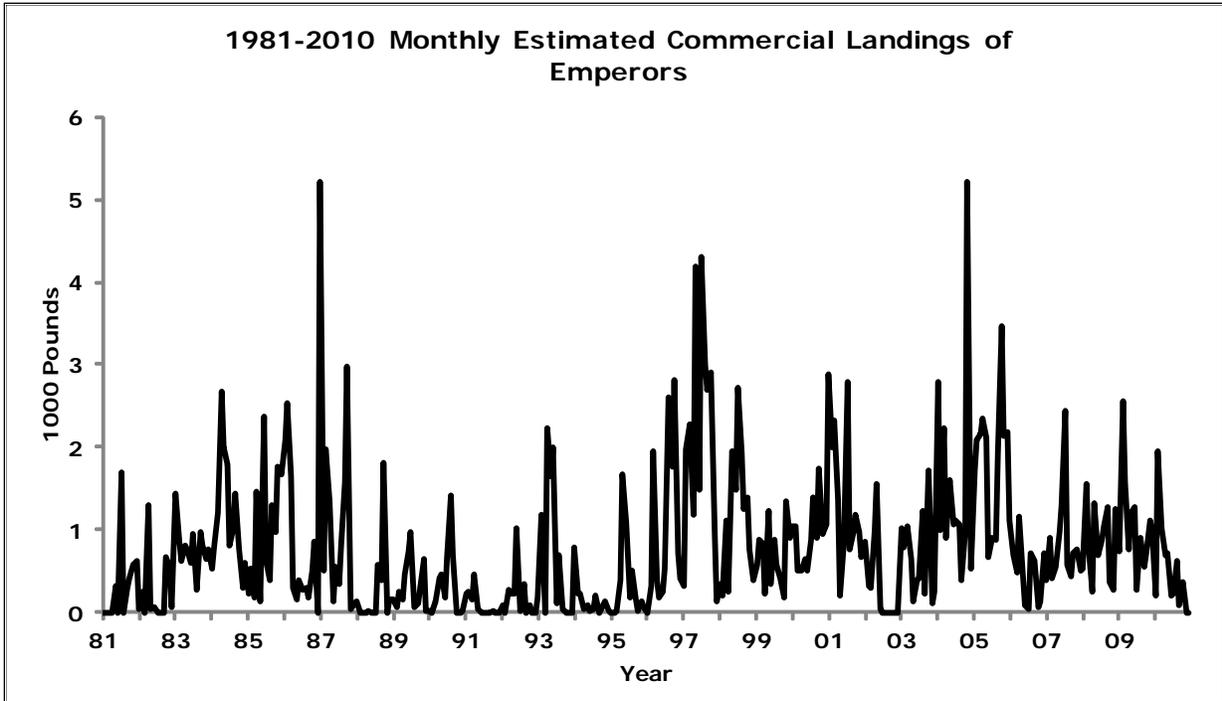


Figure B-4-7

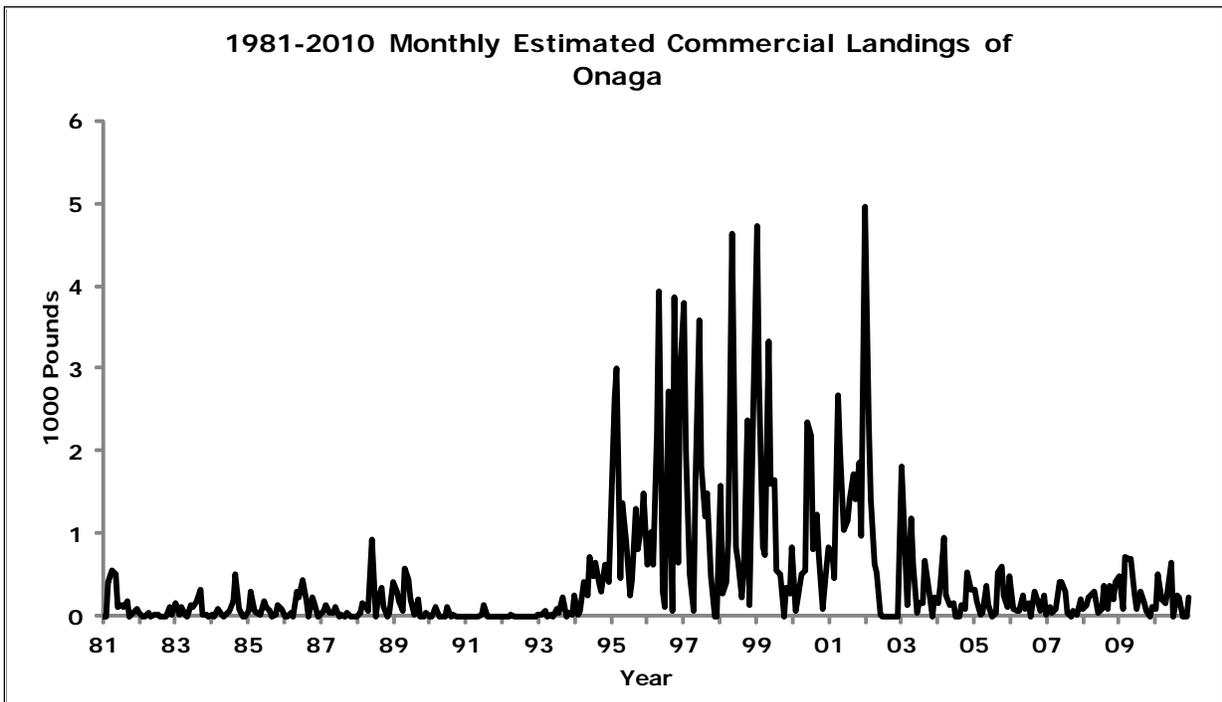


Figure B-4-8

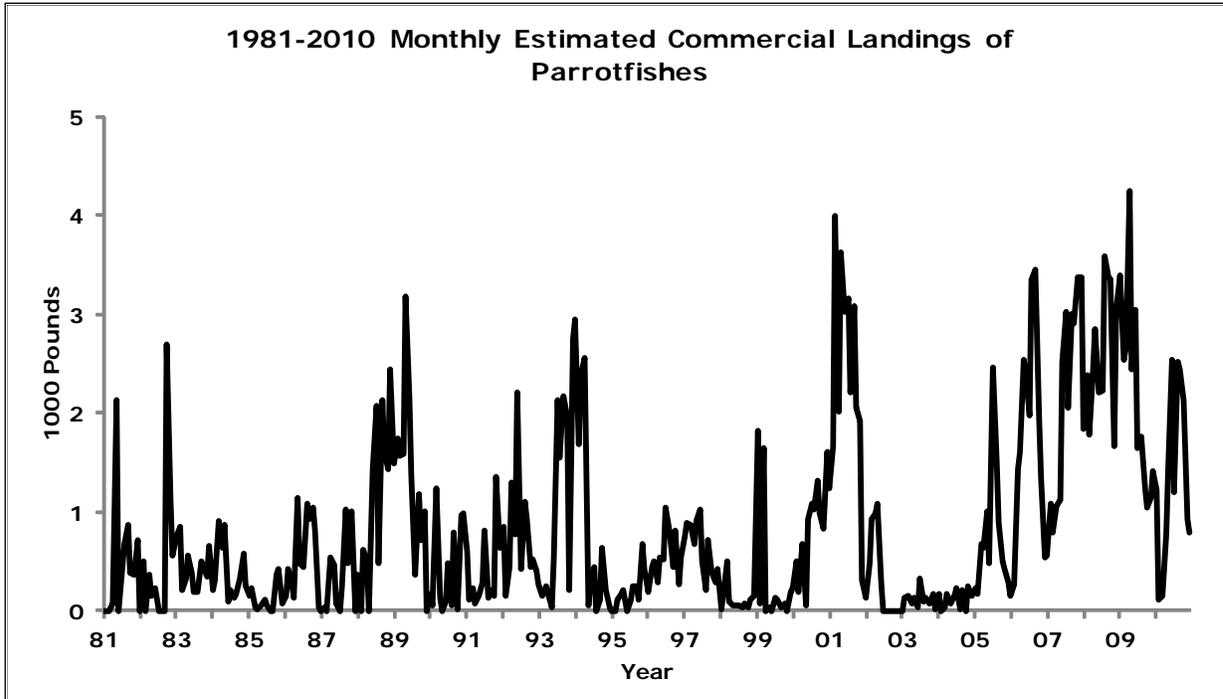


Figure B-4-9

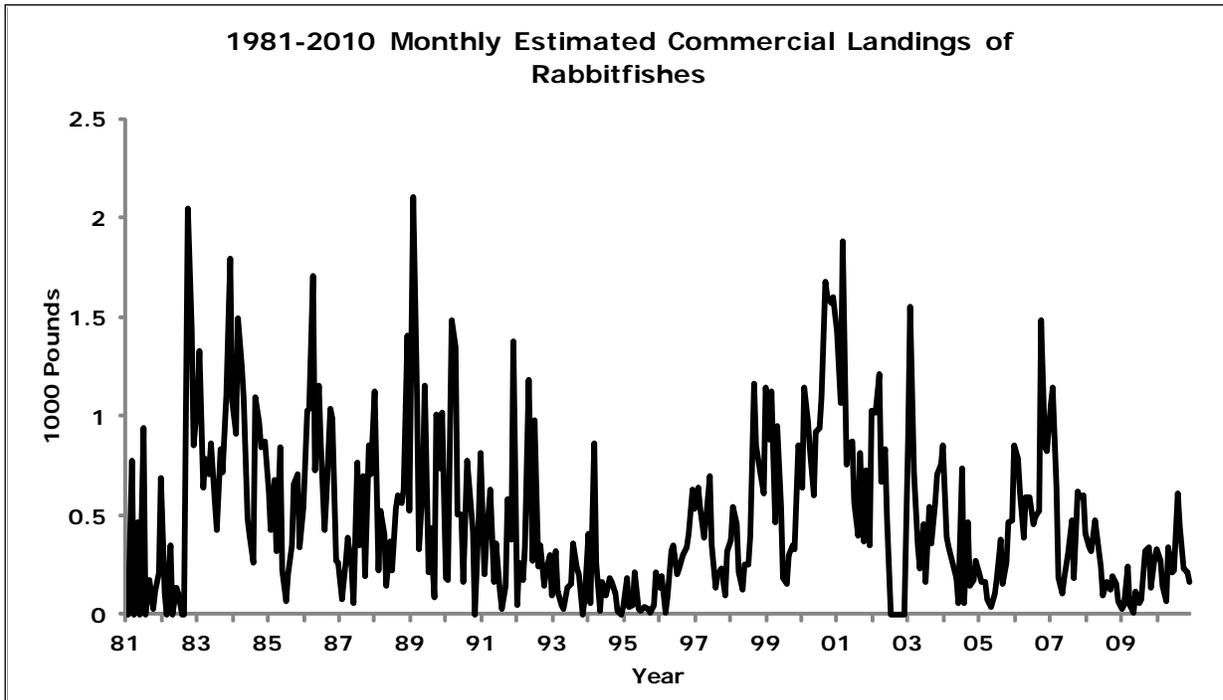


Figure B-4-10

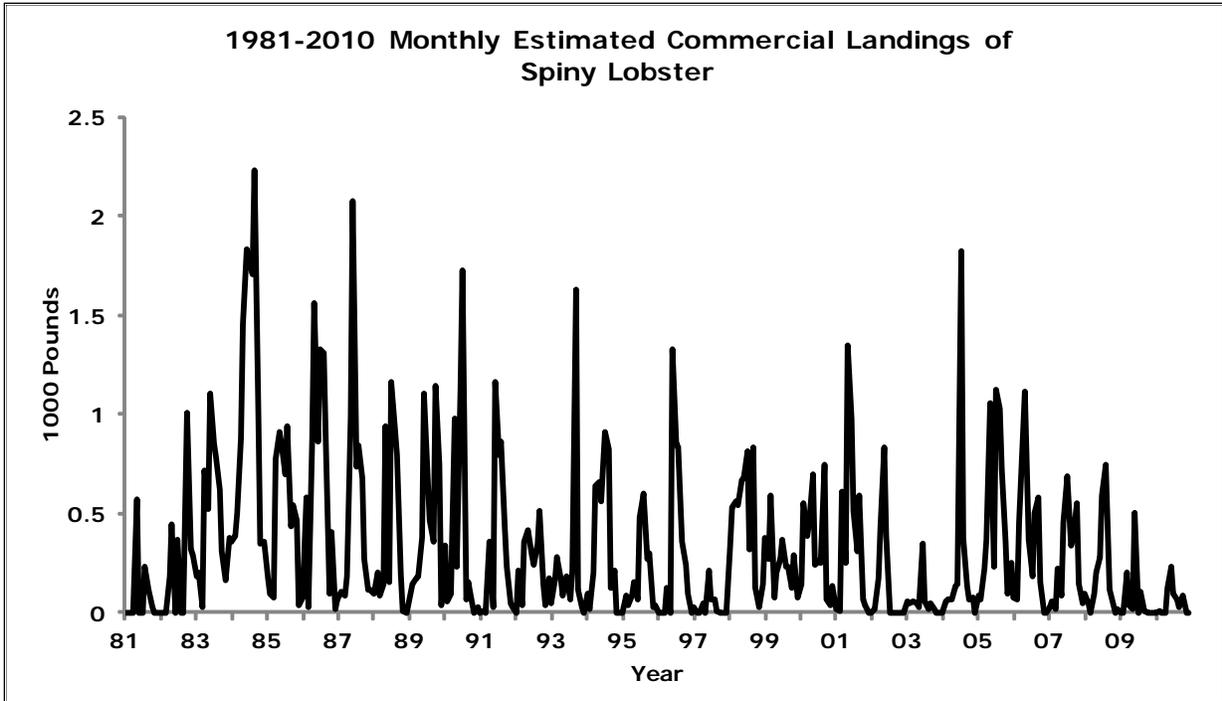


Figure B-4-11