

**NORTHERN MARIANA ISLANDS
2007 FISHERY STATISTICS**

Compiled by
Division of Fish and Wildlife
and the
Western Pacific Fisheries Information Network

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CONTENTS

	Page
Introduction	B.1
Data Collecting	B.2
Data Processing	B.3
Data Reporting	B.3
Species Categories	B.3
Tables	B.7
Figures	B.20

LIST OF CNMI 2007 SUMMARY TABLES

Tables		Page
B-1	Annual Estimated Commerical Landings	B.7
B-2	January Estimated Commerical Landings	B.8
B-3	February Estimated Commerical Landings	B.9
B-4	March Estimated Commerical Landings	B.10
B-5	April Estimated Commerical Landings	B.11
B-6	May Estimated Commerical Landings	B.12
B-7	June Estimated Commerical Landings	B.13
B-8	July Estimated Commerical Landings	B.14
B-9	August Estimated Commerical Landings	B.15
B-10	September Estimated Commerical Landings	B.16
B-11	October Estimated Commerical Landings	B.17
B-12	November Estimated Commerical Landings	B.18
B-13	December Estimated Commerical Landings	B.19

LIST OF CNMI FIGURES

Figures	Page
2007 Monthly Estimated Commercial Landings	
B-1-1 Pelagic Fishes, Bottomfishes, Reef Fishes, and Other Fishes	B.20
B-1-2 Tunas, PMUS, and BMUS	B.20
B-1-3 Skipjack, Yellowfin, and Other Tunas	B.21
B-1-4 Mahimahi, Wahoo, and Billfishes	B.21
B-1-5 Bigeye Scad, Emperors, and Onaga	B.22
1981-2007 Average Monthly Estimated Commercial Landings	
B-2-1 Tuna, PMUS, and BMUS	B.23
B-2-2 Skipjack, Yellowfin, and Other Tunas	B.23
B-2-3 Mahimahi, Wahoo, and Billfishes	B.24
B-2-4 Bigeye Scad, Emperors, and Onaga	B.24
B-2-5 Parrotfishes, Spiny Lobster, and Rabbitfishes	B.25
1981-2007 Annual Total Estimated Commercial Landings	
B-3-1 All Species (Pounds) and All Species (Dollars)	B.26
B-3-2 Pelagic Fishes, Bottomfishes, Reef Fishes, and Other Fishes	B.26
B-3-3 Tunas, PMUS, and BMUS	B.27
B-3-4 Skipjack, Yellowfin, and Other Tunas	B.27
B-3-5 Wahoo, Mahimahi, and Billfishes	B.28
B-3-6 Bigeye Scad, Emperors, and Onaga	B.28
B-3-7 Parrotfishes, Spiny Lobster, and Rabbitfishes	B.29

LIST OF CNMI FIGURES (continued)

Figures	Page
1981-2007 Monthly Estimated Commercial Landings	
B-4-1 Yellowfin Tuna	B.30
B-4-2 Skipjack Tuna	B.30
B-4-3 Dogtooth Tuna	B.31
B-4-4 Wahoo	B.31
B-4-5 Mahimahi	B.32
B-4-6 Bigeye Scad	B.32
B-4-7 Emperors	B.33
B-4-8 Onaga	B.33
B-4-9 Parrotfishes	B.34
B-4-10 Rabbitfishes	B.34
B-4-11 Spiny Lobster	B.35

COMMONWEALTH OF THE NORTHERN MARIANA ISLANDS 2007 FISHERY STATISTICS

INTRODUCTION

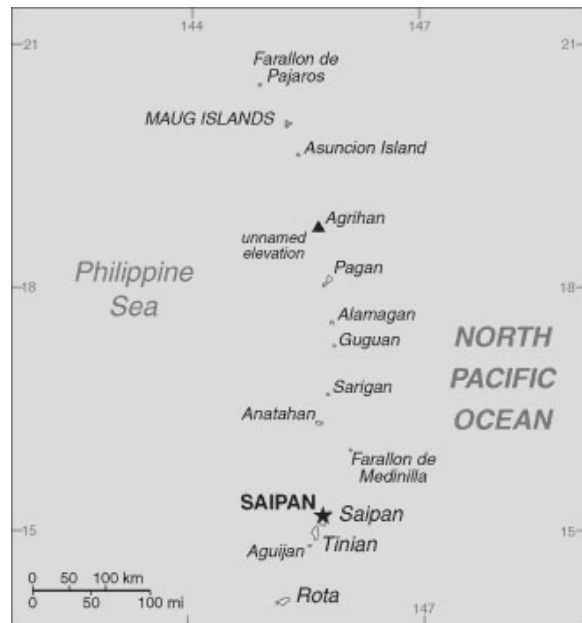
Location: 14° to 21°N latitude, 145°E longitude

Main Islands: Saipan, Rota, Tinian

Population: about 87,000 (*The World Factbook*, 2008)

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.

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 occur. 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 in 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 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. Also, some of the charts in this volume are new or modified from earlier volumes. To access the most up-to-date data and charts, please visit <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.

I. Pelagic Management Unit Species (PMUS)

Blue marlin	Sharks
Mahimahi	Spearfish
Sailfish	Wahoo

B.4

II. 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

III. Billfishes

Blue marlin	Spearfish
Sailfish	

IV. Tunas

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

V. Other Tunas

Dogtooth tuna	Tunas (unknown)
Kawakawa (saba)	

VI. 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 lyretail grouper
Groupers	Yellow banded grouper
Highfin grouper	Yellow spotted trevally
Honeycomb grouper	Yelloweye opakapaka
Humpback snapper	Yellowlips emperor
Jacks	Yellowstripe emperor
Jobfish (uku)	

C. *Reef Fishes*

Bigeye/glasseye	Reef fishes (unknown)
Bluebanded surgeonfish	Shallow snappers
Bluespine unicornfish	Soldierfishes
Butterflyfish	Squirrelfishes
Convict tang	Surgeonfishes
Dash & dot goatfish	Sweetlips
Fusiliers	Triggerfishes
Goatfishes	Tripletail wrasse
Highfin rudderfish brown	Two-barred goatfish
Highfin rudderfish silver	Unicornfishes
Humphead wrasse	Wrasses
Orangespine unicornfish	Yellowfin surgeonfish
Parrotfishes	Yellowstripe goatfish
Rabbitfishes	

D. *Other Fishes*

Bigeye scad	Octopus
Clams/bivalves	Sea cucumbers
Coconut crab	Seaweeds
Crabs	Shrimp (freshwater)
Eels (freshwater)	Shrimp (saltwater)
Invertebrates	Slipper lobster
Kona crab	Spiny lobster
Lemu	Squid
Milkfish	Trochus
Miscellaneous	Turtle
Mullet	

Table B-1
CNMI Annual 2007 Estimated Commercial Landings

Species	Pounds	Value (\$)	Price/Lb (\$)
Bigeye scad	26,490	65,190	2.46
Jacks	2,503	6,349	2.54
Mullet	31	78	2.50
Black jack	307	754	2.45
Giant trevally	148	371	2.50
Bottomfishes (unknown)	6,823	17,311	2.54
Sickle pomfret	3,996	10,735	2.69
Ehu (red snapper)	2,396	8,295	3.46
Gindai (flower snapper)	3,453	12,264	3.55
Groupers	2,012	6,017	2.99
Kalikali (yellowtail)	1,949	4,647	2.38
Onaga (red snapper)	1,902	7,886	4.15
Opakapaka (pink snapper)	2,479	6,707	2.71
Jobfish (uku)	3,762	6,645	1.77
Silvermouth (deep lehi)	753	1,984	2.63
Amberjack	357	1,003	2.81
Blue lined snapper	2,651	6,701	2.53
Red snapper	47	117	2.50
Reef fishes (unknown)	58,813	155,828	2.65
Wrasses	1,562	4,403	2.82
Rabbitfishes	6,603	21,082	3.19
Emperors	10,825	27,112	2.50
Squirrelfishes	144	356	2.47
Parrotfishes	26,919	84,973	3.16
Surgeonfishes	2,102	4,308	2.05
Orangespine unicornfish	462	1,163	2.52
Unicornfishes	399	1,010	2.53
Goatfishes	244	568	2.33
Bigeye emperor	399	1,175	2.94
Barracudas	33	59	1.78
Mahimahi	28,611	48,811	1.71
Blue marlin	83	174	2.11
Sailfish	83	167	2.00
Rainbow runner	1,559	2,984	1.91
Wahoo	2,712	5,262	1.94
Skipjack tuna	258,886	331,058	1.28
Dogtooth tuna	2,942	4,805	1.63
Yellowfin tuna	37,802	69,441	1.84
Kawakawa (saba)	1,893	3,121	1.65
Spiny lobster	3,259	17,296	5.31
Slipper lobster	8	42	5.00
Octopus	2,276	4,652	2.04
TOTAL	510,680	952,903	1.87

Table B-2
CNMI January 2007 Estimated Commercial Landings

Species	Pounds	Value (\$)	Price/Lb (\$)
Bigeye scad	402	1,181	2.94
Jacks	276	852	3.09
Bottomfishes (unknown)	341	852	2.50
Gindai (flower snapper)	13	44	3.50
Groupers	183	756	4.14
Kalikali (yellowtail)	153	422	2.75
Onaga (red snapper)	28	156	5.50
Jobfish (uku)	1	3	4.00
Blue lined snapper	45	124	2.75
Reef fishes (unknown)	6,028	15,180	2.52
Wrasses	5	11	2.50
Rabbitfishes	1,148	3,733	3.25
Emperors	418	1,098	2.63
Parrotfishes	599	1,881	3.14
Surgeonfishes	147	319	2.16
Mahimahi	6,175	11,590	1.88
Blue marlin	30	75	2.50
Rainbow runner	88	177	2.00
Wahoo	81	162	2.00
Skipjack tuna	13,443	24,220	1.80
Dogtooth tuna	32	63	2.00
Yellowfin tuna	5,015	9,555	1.91
Kawakawa (saba)	106	159	1.50
Spiny lobster	36	178	5.00
Octopus	379	793	2.09
TOTAL	35,170	73,581	2.09

Table B-3
CNMI February 2007 Estimated Commercial Landings

Species	Pounds	Value (\$)	Price/Lb (\$)
Bigeye scad	1,090	3,271	3.00
Jacks	243	604	2.49
Bottomfishes (unknown)	183	458	2.50
Sickle pomfret	161	471	2.93
Ehu (red snapper)	24	81	3.36
Gindai (flower snapper)	160	548	3.43
Kalikali (yellowtail)	42	127	3.00
Onaga (red snapper)	113	548	4.84
Opakapaka (pink snapper)	278	767	2.75
Jobfish (uku)	5	15	3.00
Silvermouth (deep lehi)	43	126	2.96
Reef fishes (unknown)	7,176	17,994	2.51
Wrasses	20	50	2.50
Rabbitfishes	1,235	3,986	3.23
Emperors	982	2,455	2.50
Parrotfishes	1,175	3,652	3.11
Surgeonfishes	231	464	2.01
Orangespine unicornfish	17	42	2.50
Unicornfishes	137	341	2.50
Goatfishes	5	13	2.67
Barracudas	25	47	1.87
Mahimahi	6,331	11,397	1.80
Blue marlin	28	57	2.00
Rainbow runner	93	188	2.03
Wahoo	85	180	2.12
Skipjack tuna	14,183	23,045	1.62
Dogtooth tuna	265	494	1.86
Yellowfin tuna	5,073	9,387	1.85
Kawakawa (saba)	181	285	1.58
Spiny lobster	57	280	4.91
Octopus	283	565	2.00
TOTAL	39,923	81,938	2.05

Table B-4
CNMI March 2007 Estimated Commercial Landings

Species	Pounds	Value (\$)	Price/Lb (\$)
Bigeye scad	760	2,281	3.00
Jacks	83	206	2.50
Bottomfishes (unknown)	271	677	2.50
Sickle pomfret	116	332	2.87
Ehu (red snapper)	64	238	3.71
Gindai (flower snapper)	143	531	3.70
Kalikali (yellowtail)	79	198	2.50
Onaga (red snapper)	53	210	4.00
Opakapaka (pink snapper)	156	449	2.87
Jobfish (uku)	3	9	2.75
Silvermouth (deep lehi)	227	577	2.55
Amberjack	115	345	3.00
Red snapper	47	117	2.50
Reef fishes (unknown)	6,352	15,991	2.52
Wrasses	62	179	2.91
Rabbitfishes	695	2,250	3.24
Emperors	462	1,154	2.50
Parrotfishes	854	2,703	3.17
Surgeonfishes	113	227	2.00
Mahimahi	7,516	11,666	1.55
Wahoo	471	912	1.94
Skipjack tuna	19,746	26,278	1.33
Dogtooth tuna	145	266	1.83
Yellowfin tuna	3,700	6,702	1.81
Spiny lobster	17	84	5.00
Octopus	199	398	2.00
TOTAL	42,447	74,981	1.77

B.11

Table B-5
CNMI April 2007 Estimated Commercial Landings

Species	Pounds	Value (\$)	Price/Lb (\$)
Bigeye scad	508	1,512	2.98
Jacks	78	170	2.17
Bottomfishes (unknown)	261	660	2.53
Sickle pomfret	105	306	2.91
Ehu (red snapper)	198	664	3.36
Gindai (flower snapper)	291	1,032	3.55
Groupers	228	753	3.30
Kalikali (yellowtail)	133	345	2.59
Onaga (red snapper)	90	330	3.67
Opakapaka (pink snapper)	318	875	2.75
Jobfish (uku)	83	208	2.50
Blue lined snapper	134	335	2.50
Reef fishes (unknown)	3,915	9,945	2.54
Rabbitfishes	202	647	3.21
Emperors	599	1,514	2.53
Parrotfishes	1,144	3,607	3.15
Surgeonfishes	134	268	2.00
Bigeye emperor	20	60	3.00
Mahimahi	4,353	6,699	1.54
Rainbow runner	86	153	1.78
Wahoo	503	945	1.88
Skipjack tuna	25,411	31,798	1.25
Dogtooth tuna	532	770	1.45
Yellowfin tuna	3,613	6,035	1.67
Kawakawa (saba)	87	152	1.75
Spiny lobster	237	1,206	5.09
Octopus	57	119	2.10
TOTAL	43,320	71,110	1.64

Table B-6
CNMI May 2007 Estimated Commercial Landings

Species	Pounds	Value (\$)	Price/Lb (\$)
Bigeye scad	759	2,295	3.03
Jacks	288	668	2.32
Black jack	60	147	2.45
Bottomfishes (unknown)	1,815	4,705	2.59
Sickle pomfret	669	1,784	2.67
Ehu (red snapper)	460	1,686	3.67
Gindai (flower snapper)	697	2,495	3.58
Groupers	134	352	2.62
Kalikali (yellowtail)	230	593	2.57
Onaga (red snapper)	445	1,761	3.96
Opakapaka (pink snapper)	197	525	2.67
Jobfish (uku)	862	1,745	2.03
Silvermouth (deep lehi)	55	158	2.87
Amberjack	18	44	2.50
Blue lined snapper	219	569	2.60
Reef fishes (unknown)	4,187	10,911	2.61
Wrasses	43	128	3.00
Rabbitfishes	111	303	2.74
Emperors	1,049	2,623	2.50
Parrotfishes	1,214	3,768	3.10
Surgeonfishes	32	63	2.00
Orangespine unicornfish	63	158	2.50
Unicornfishes	68	169	2.50
Goatfishes	13	20	1.50
Mahimahi	1,102	1,720	1.56
Rainbow runner	112	194	1.74
Wahoo	179	337	1.89
Skipjack tuna	31,497	35,613	1.13
Dogtooth tuna	342	507	1.48
Yellowfin tuna	4,462	7,211	1.62
Kawakawa (saba)	31	50	1.62
Spiny lobster	92	468	5.11
Octopus	234	468	2.00
TOTAL	51,738	84,238	1.63

B.13

Table B-7
CNMI June 2007 Estimated Commercial Landings

Species	Pounds	Value (\$)	Price/Lb (\$)
Bigeye scad	117	346	2.97
Jacks	302	733	2.43
Black jack	149	371	2.50
Giant trevally	13	33	2.50
Bottomfishes (unknown)	848	2,090	2.46
Sickle pomfret	929	2,450	2.64
Ehu (red snapper)	283	998	3.53
Gindai (flower snapper)	530	1,905	3.60
Groupers	882	2,647	3.00
Onaga (red snapper)	459	1,911	4.16
Opakapaka (pink snapper)	310	827	2.67
Jobfish (uku)	1,250	1,929	1.54
Silvermouth (deep lehi)	81	283	3.50
Amberjack	8	21	2.50
Blue lined snapper	603	1,511	2.51
Reef fishes (unknown)	3,618	9,254	2.56
Wrasses	67	133	2.00
Rabbitfishes	200	642	3.22
Emperors	1,412	3,530	2.50
Squirrelfishes	75	188	2.50
Parrotfishes	2,730	8,492	3.11
Surgeonfishes	10	20	2.00
Orangespine unicornfish	184	460	2.50
Mahimahi	18	37	2.00
Rainbow runner	235	444	1.89
Wahoo	55	110	2.00
Skipjack tuna	30,515	33,743	1.11
Dogtooth tuna	483	748	1.55
Yellowfin tuna	3,673	6,958	1.89
Spiny lobster	498	2,580	5.19
Octopus	75	154	2.04
TOTAL	50,611	85,546	1.69

Table B-8
CNMI July 2007 Estimated Commercial Landings

Species	Pounds	Value (\$)	Price/Lb (\$)
Bigeye scad	1,187	3,560	3.00
Jacks	310	776	2.50
Mullet	23	58	2.50
Black jack	41	92	2.22
Giant trevally	48	121	2.50
Bottomfishes (unknown)	468	1,202	2.57
Sickle pomfret	278	813	2.92
Ehu (red snapper)	452	1,577	3.49
Gindai (flower snapper)	547	1,905	3.48
Groupers	80	200	2.50
Kalikali (yellowtail)	628	1,211	1.93
Onaga (red snapper)	328	1,350	4.12
Opakapaka (pink snapper)	263	694	2.63
Jobfish (uku)	332	671	2.02
Silvermouth (deep lehi)	95	313	3.29
Amberjack	17	50	3.00
Blue lined snapper	550	1,376	2.50
Reef fishes (unknown)	3,905	10,035	2.57
Wrasses	75	190	2.54
Rabbitfishes	337	1,059	3.15
Emperors	2,639	6,453	2.44
Squirrelfishes	23	58	2.50
Parrotfishes	3,271	10,117	3.09
Surgeonfishes	170	342	2.01
Orangespine unicornfish	87	218	2.50
Unicornfishes	158	395	2.50
Goatfishes	49	122	2.50
Bigeye emperor	333	1,000	3.00
Barracudas	8	13	1.50
Blue marlin	24	42	1.75
Rainbow runner	73	136	1.88
Skipjack tuna	21,223	26,593	1.25
Dogtooth tuna	22	33	1.50
Yellowfin tuna	594	1,167	1.96
Kawakawa (saba)	250	371	1.49
Spiny lobster	744	3,954	5.31
Octopus	60	131	2.20
TOTAL	39,691	78,398	1.98

Table B-9
CNMI August 2007 Estimated Commercial Landings

Species	Pounds	Value (\$)	Price/Lb (\$)
Bigeye scad	3,133	8,950	2.86
Jacks	230	575	2.50
Mullet	8	20	2.50
Black jack	26	65	2.50
Bottomfishes (unknown)	199	537	2.70
Sickle pomfret	199	394	1.98
Ehu (red snapper)	303	936	3.09
Gindai (flower snapper)	240	815	3.39
Groupers	257	528	2.06
Kalikali (yellowtail)	138	368	2.67
Onaga (red snapper)	57	185	3.27
Opakapaka (pink snapper)	348	962	2.77
Jobfish (uku)	422	679	1.61
Silvermouth (deep lehi)	168	312	1.85
Amberjack	104	294	2.82
Blue lined snapper	356	890	2.50
Reef fishes (unknown)	3,060	7,851	2.57
Wrasses	68	171	2.50
Rabbitfishes	518	1,679	3.24
Emperors	624	1,560	2.50
Squirrelfishes	38	94	2.50
Parrotfishes	2,225	7,034	3.16
Surgeonfishes	263	567	2.16
Orangespine unicornfish	42	115	2.75
Goatfishes	62	154	2.50
Bigeye emperor	46	115	2.50
Mahimahi	80	160	2.00
Rainbow runner	226	410	1.81
Wahoo	74	137	1.85
Skipjack tuna	32,641	34,852	1.07
Dogtooth tuna	332	562	1.69
Yellowfin tuna	1,493	2,929	1.96
Spiny lobster	364	1,909	5.25
Octopus	87	217	2.50
TOTAL	48,428	77,022	1.59

Table B-10
CNMI September 2007 Estimated Commercial Landings

Species	Pounds	Value (\$)	Price/Lb (\$)
Bigeye scad	8,737	20,344	2.33
Jacks	132	330	2.50
Black jack	32	79	2.50
Giant trevally	87	217	2.50
Bottomfishes (unknown)	246	619	2.52
Sickle pomfret	927	2,687	2.90
Ehu (red snapper)	121	398	3.30
Gindai (flower snapper)	165	609	3.69
Groupers	68	188	2.75
Kalikali (yellowtail)	141	365	2.59
Opakapaka (pink snapper)	25	65	2.61
Jobfish (uku)	238	381	1.60
Silvermouth (deep lehi)	17	42	2.50
Blue lined snapper	466	1,171	2.51
Reef fishes (unknown)	4,320	12,471	2.89
Wrasses	251	724	2.89
Rabbitfishes	204	653	3.20
Emperors	466	1,166	2.50
Parrotfishes	3,245	10,428	3.21
Surgeonfishes	253	512	2.02
Mahimahi	337	606	1.80
Rainbow runner	150	278	1.86
Wahoo	328	605	1.85
Skipjack tuna	22,284	25,799	1.16
Dogtooth tuna	110	208	1.89
Yellowfin tuna	1,165	2,099	1.80
Kawakawa (saba)	3	3	1.00
Spiny lobster	409	2,241	5.48
Octopus	275	550	2.00
TOTAL	45,201	85,838	1.90

Table B-11
CNMI October 2007 Estimated Commercial Landings

Species	Pounds	Value (\$)	Price/Lb (\$)
Bigeye scad	4,340	9,729	2.24
Jacks	128	347	2.70
Bottomfishes (unknown)	437	1,104	2.53
Sickle pomfret	58	138	2.36
Ehu (red snapper)	293	992	3.38
Gindai (flower snapper)	273	1,002	3.66
Kalikali (yellowtail)	50	127	2.54
Onaga (red snapper)	74	297	4.00
Opakapaka (pink snapper)	153	410	2.68
Jobfish (uku)	247	441	1.79
Amberjack	72	179	2.50
Blue lined snapper	211	559	2.65
Reef fishes (unknown)	4,091	10,496	2.57
Wrasses	406	1,210	2.98
Rabbitfishes	670	2,154	3.22
Emperors	780	1,859	2.38
Squirrelfishes	8	17	2.00
Parrotfishes	3,158	10,057	3.18
Surgeonfishes	416	849	2.04
Goatfishes	78	177	2.28
Mahimahi	1,099	1,876	1.71
Sailfish	10	20	2.00
Rainbow runner	144	289	2.01
Wahoo	341	679	1.99
Skipjack tuna	21,461	25,213	1.17
Dogtooth tuna	123	183	1.48
Yellowfin tuna	1,570	3,036	1.93
Kawakawa (saba)	44	44	1.00
Spiny lobster	595	3,240	5.45
Octopus	276	551	2.00
TOTAL	41,606	77,275	1.86

Table B-12
CNMI November 2007 Estimated Commercial Landings

Species	Pounds	Value (\$)	Price/Lb (\$)
Bigeye scad	4,507	9,460	2.10
Jacks	194	485	2.50
Bottomfishes (unknown)	633	1,583	2.50
Sickle pomfret	533	1,323	2.48
Ehu (red snapper)	100	360	3.60
Gindai (flower snapper)	128	473	3.71
Kalikali (yellowtail)	102	259	2.55
Onaga (red snapper)	27	100	3.75
Opakapaka (pink snapper)	220	550	2.50
Jobfish (uku)	150	225	1.50
Blue lined snapper	67	167	2.50
Reef fishes (unknown)	5,387	16,170	3.00
Wrasses	263	768	2.92
Rabbitfishes	639	1,957	3.06
Emperors	837	2,217	2.65
Parrotfishes	3,661	11,673	3.19
Surgeonfishes	138	286	2.08
Orangespine unicornfish	65	163	2.50
Unicornfishes	17	50	3.00
Goatfishes	25	50	2.00
Mahimahi	1,181	2,231	1.89
Sailfish	73	147	2.00
Rainbow runner	142	283	2.00
Wahoo	512	1,022	2.00
Skipjack tuna	10,824	17,711	1.64
Dogtooth tuna	128	193	1.50
Yellowfin tuna	2,802	5,438	1.94
Kawakawa (saba)	796	1,209	1.52
Spiny lobster	158	863	5.45
Octopus	162	323	2.00
TOTAL	34,467	77,737	2.26

Table B-13
CNMI December 2007 Estimated Commercial Landings

Species	Pounds	Value (\$)	Price/Lb (\$)
Bigeye scad	952	2,260	2.38
Jacks	239	604	2.52
Bottomfishes (unknown)	1,121	2,823	2.52
Sickle pomfret	22	38	1.75
Ehu (red snapper)	99	364	3.67
Gindai (flower snapper)	267	907	3.40
Groupers	180	594	3.30
Kalikali (yellowtail)	253	633	2.50
Onaga (red snapper)	228	1,038	4.54
Opakapaka (pink snapper)	209	582	2.78
Jobfish (uku)	169	338	2.00
Silvermouth (deep lehi)	68	174	2.55
Amberjack	23	70	3.00
Reef fishes (unknown)	6,774	19,530	2.88
Wrasses	304	839	2.76
Rabbitfishes	646	2,018	3.13
Emperors	557	1,483	2.66
Parrotfishes	3,643	11,561	3.17
Surgeonfishes	196	392	2.00
Orangespine unicornfish	4	8	2.00
Unicornfishes	20	55	2.75
Goatfishes	13	31	2.50
Mahimahi	418	829	1.99
Rainbow runner	210	432	2.06
Wahoo	85	173	2.04
Skipjack tuna	15,657	26,194	1.67
Dogtooth tuna	429	780	1.82
Yellowfin tuna	4,644	8,925	1.92
Kawakawa (saba)	397	848	2.14
Spiny lobster	53	292	5.47
Slipper lobster	8	42	5.00
Octopus	192	383	2.00
TOTAL	38,080	85,241	2.24

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

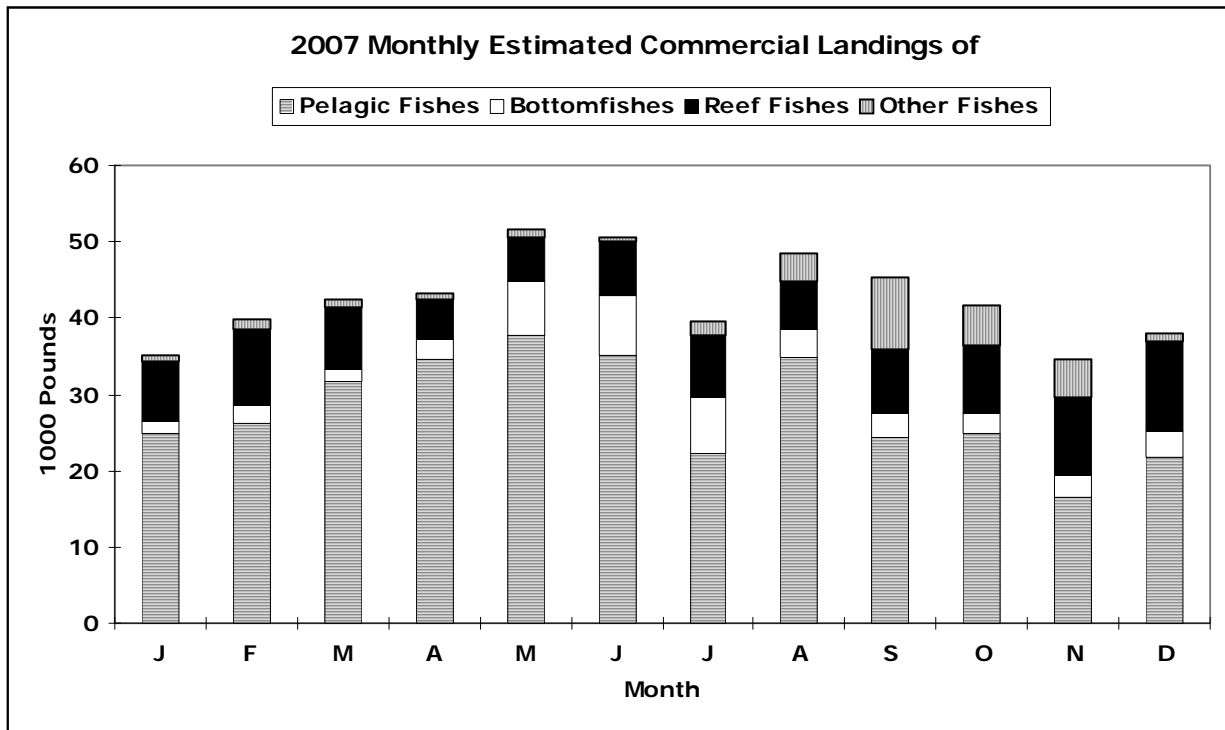


Figure B-1-1

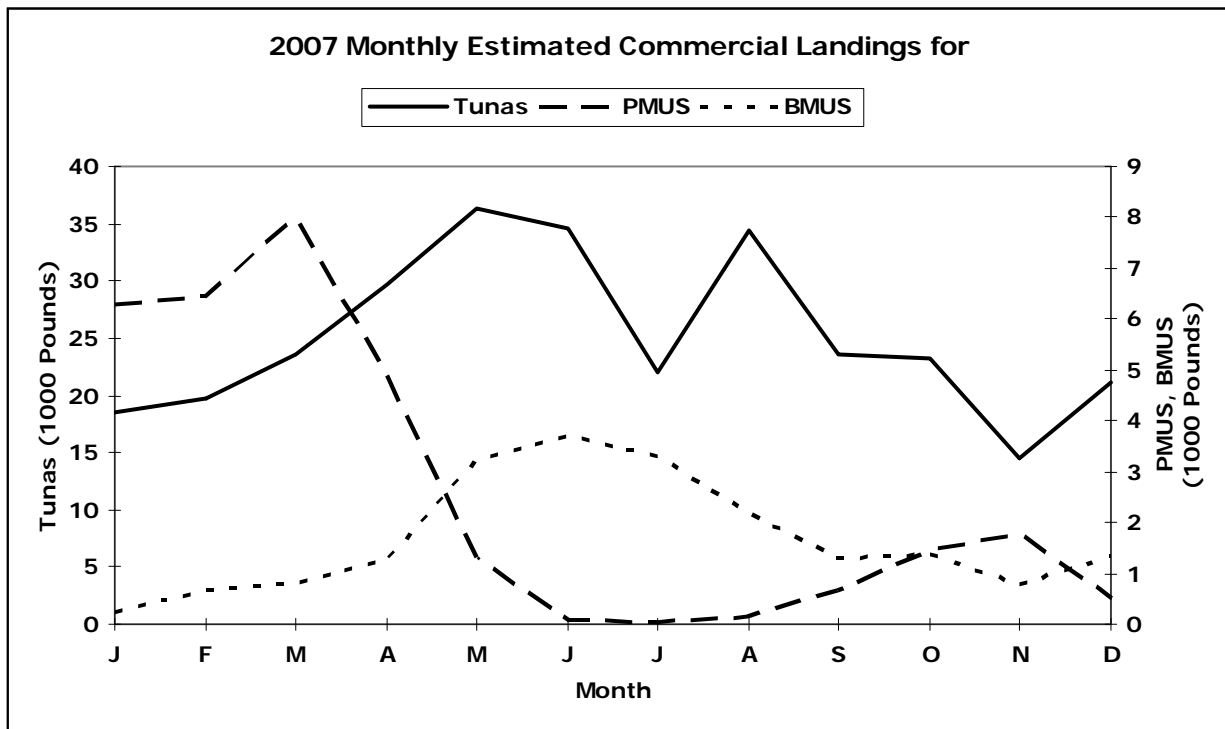


Figure B-1-2

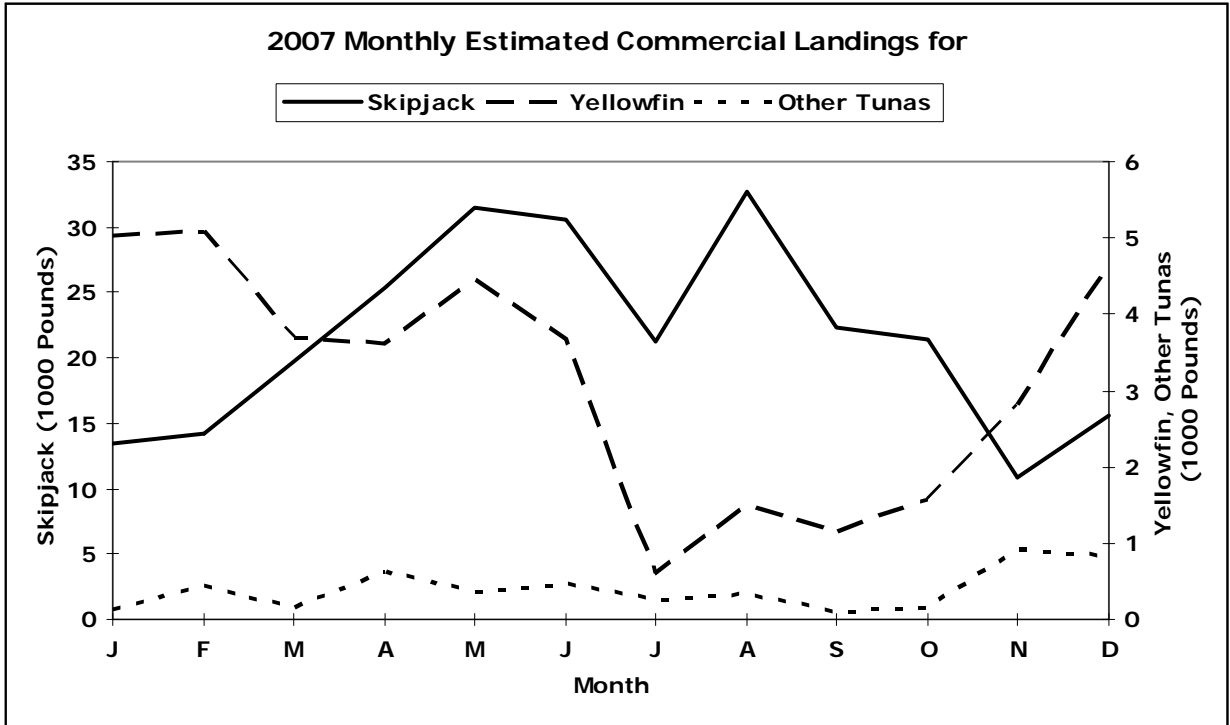


Figure B-1-3

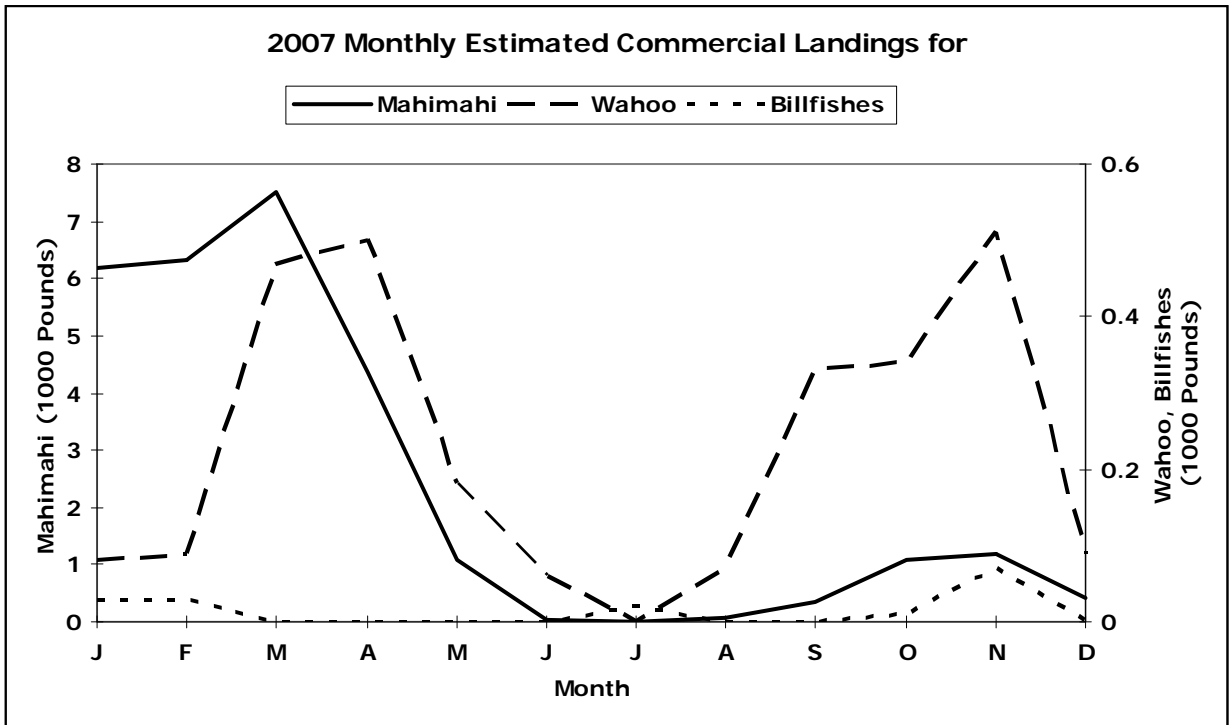


Figure B-1-4

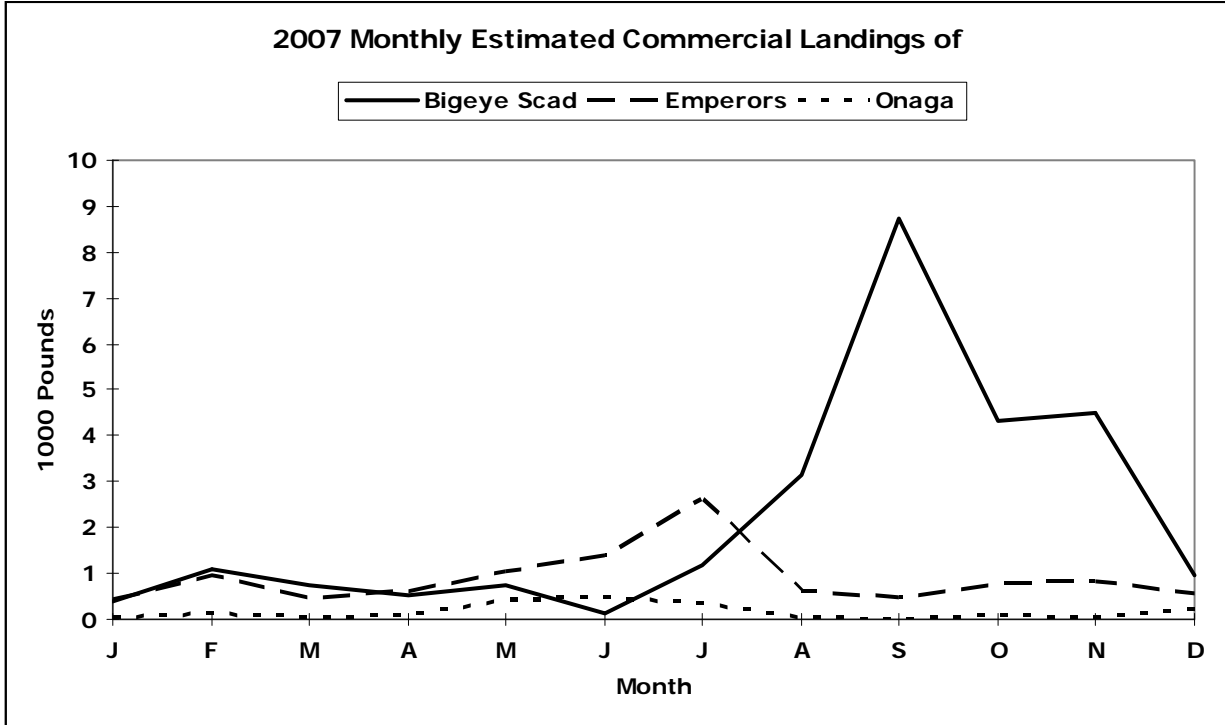


Figure B-1-5

B.23

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

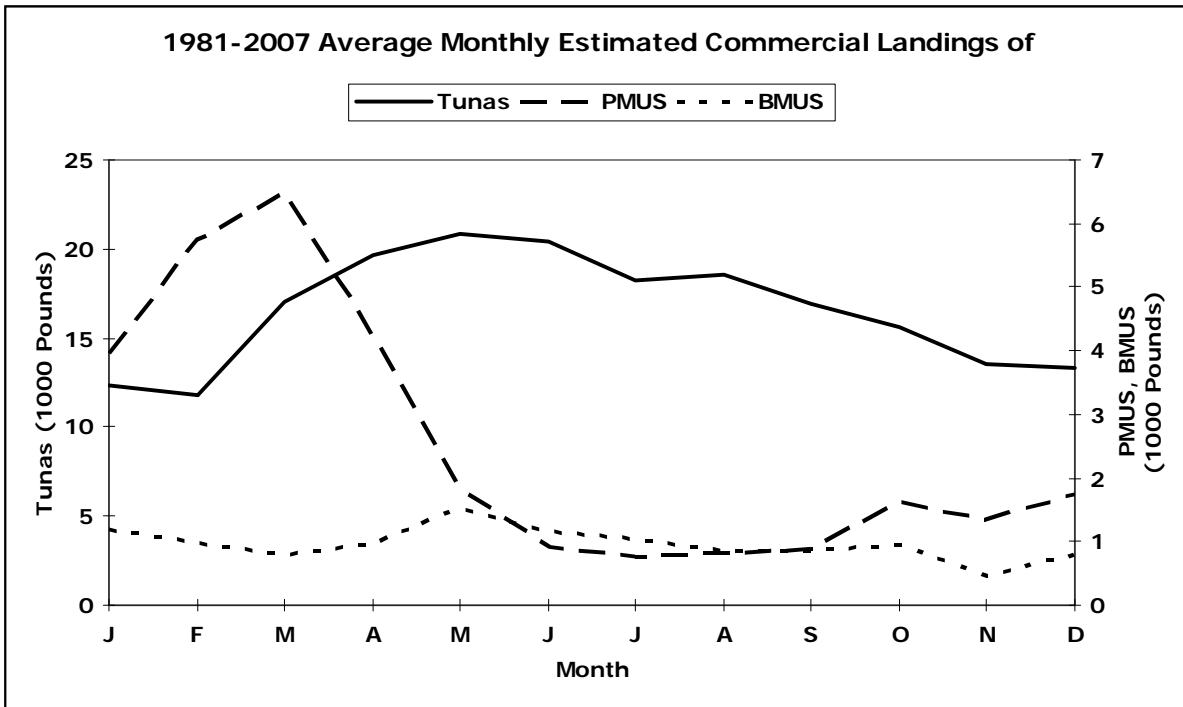


Figure B-2-1

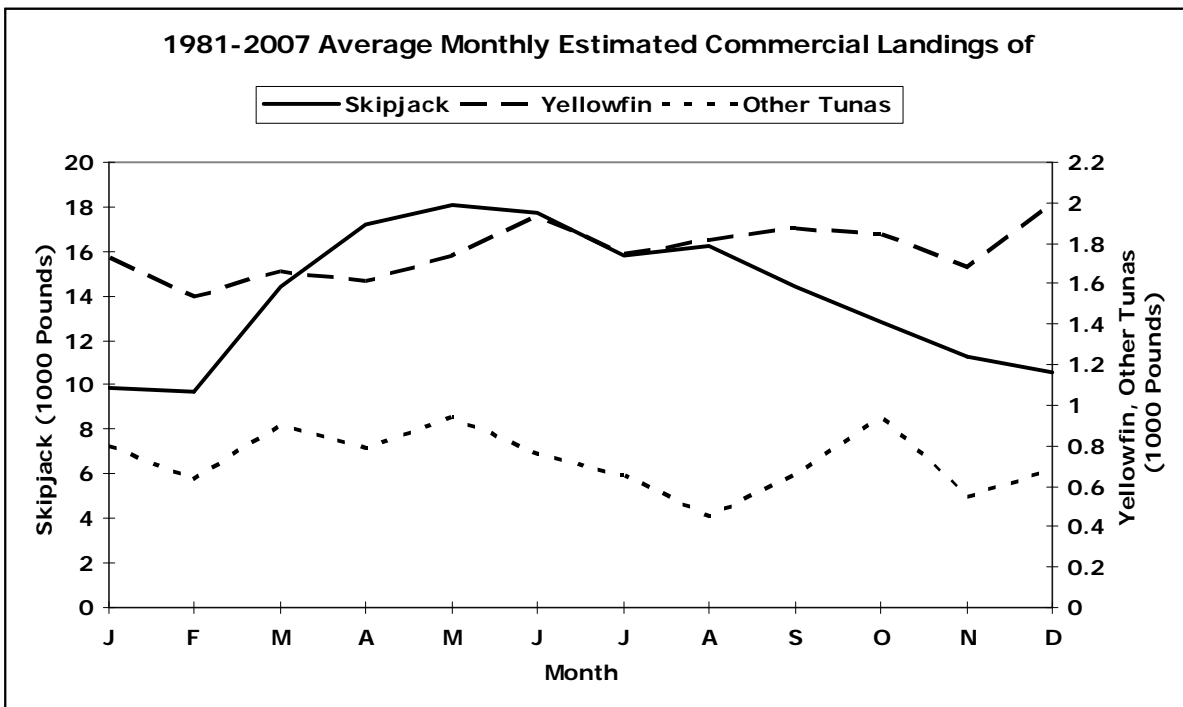


Figure B-2-2

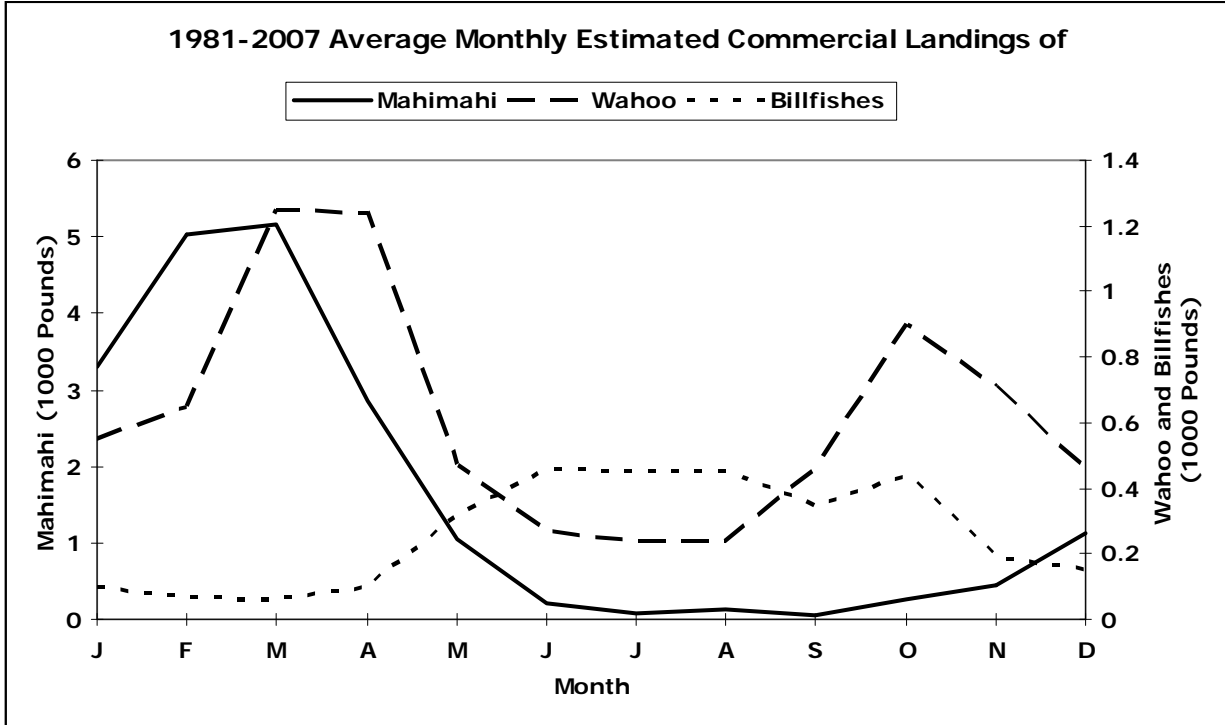


Figure B-2-3

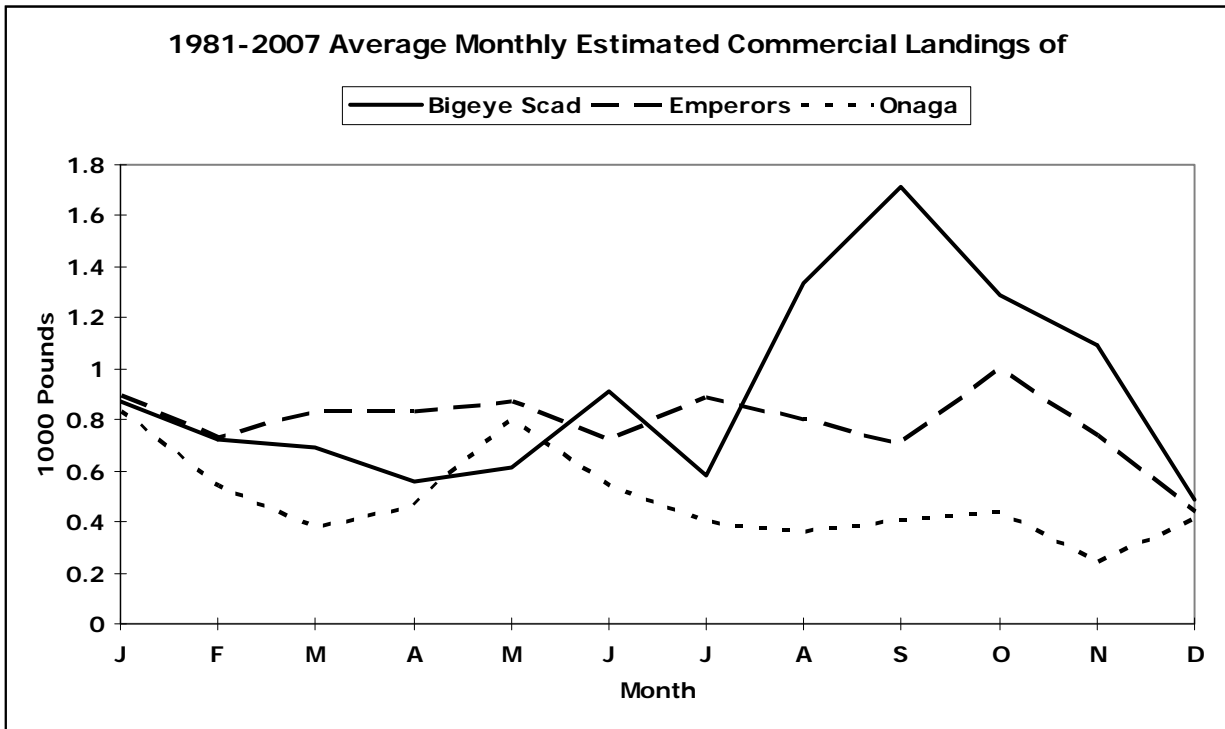


Figure B-2-4

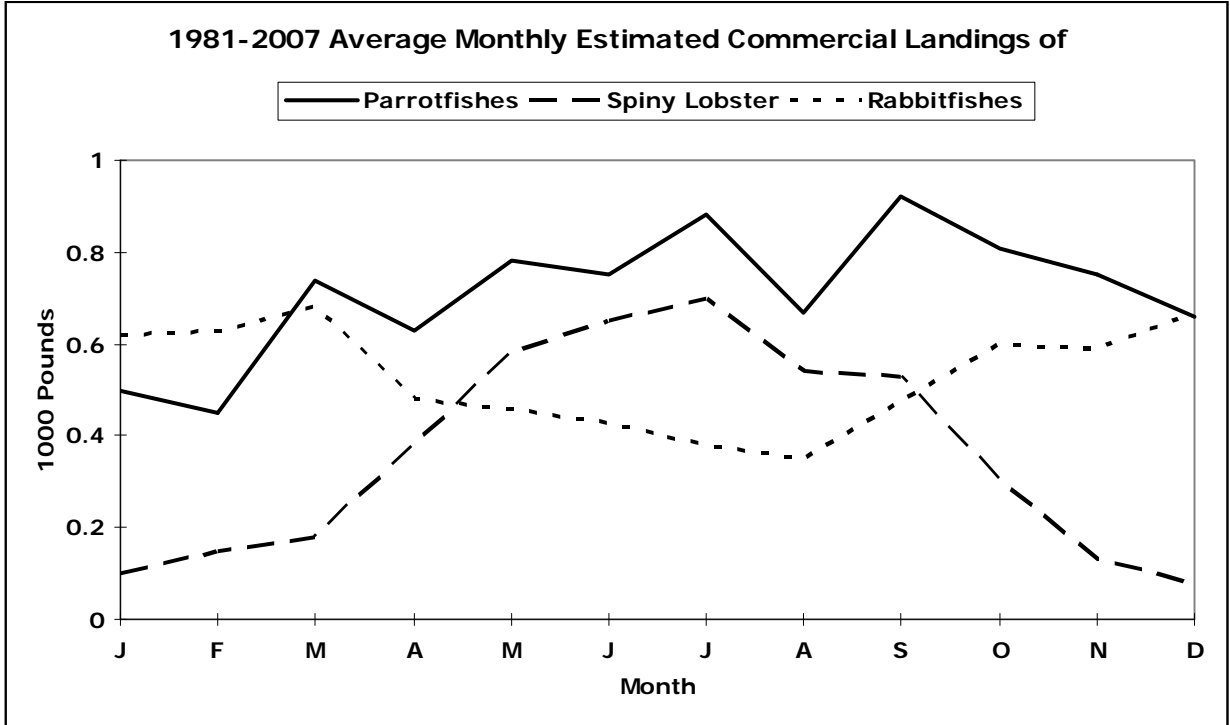


Figure B-2-5

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

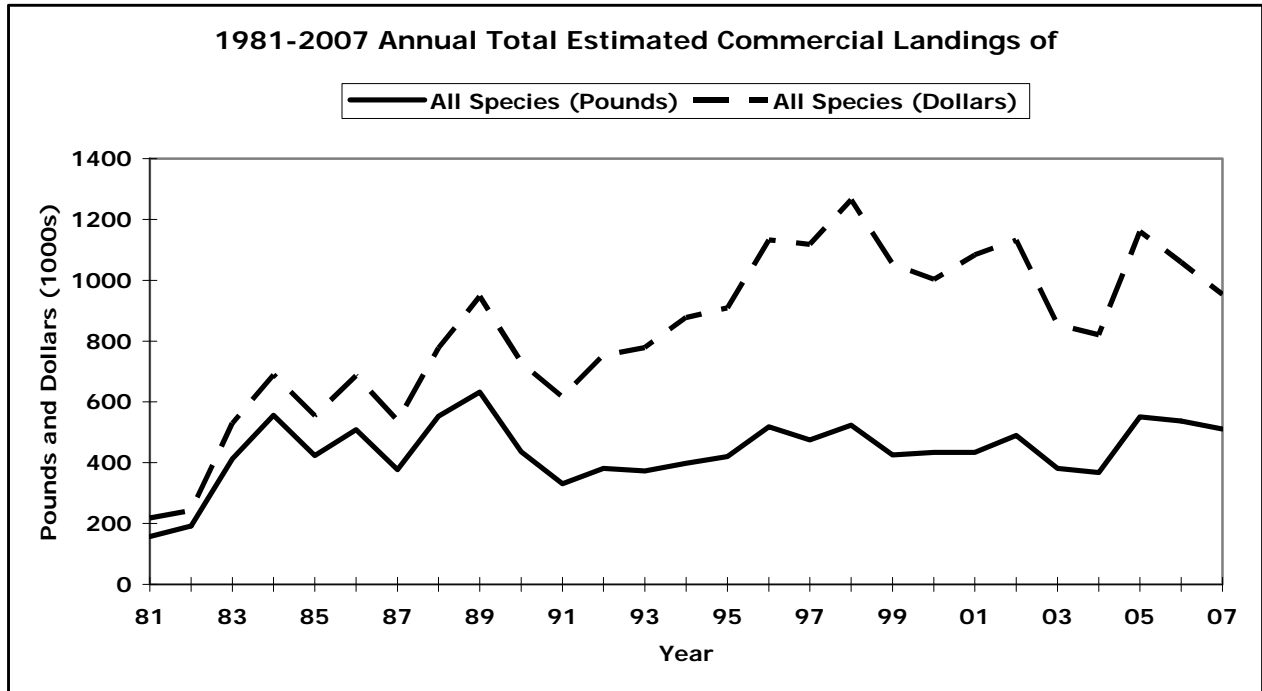


Figure B-3-1

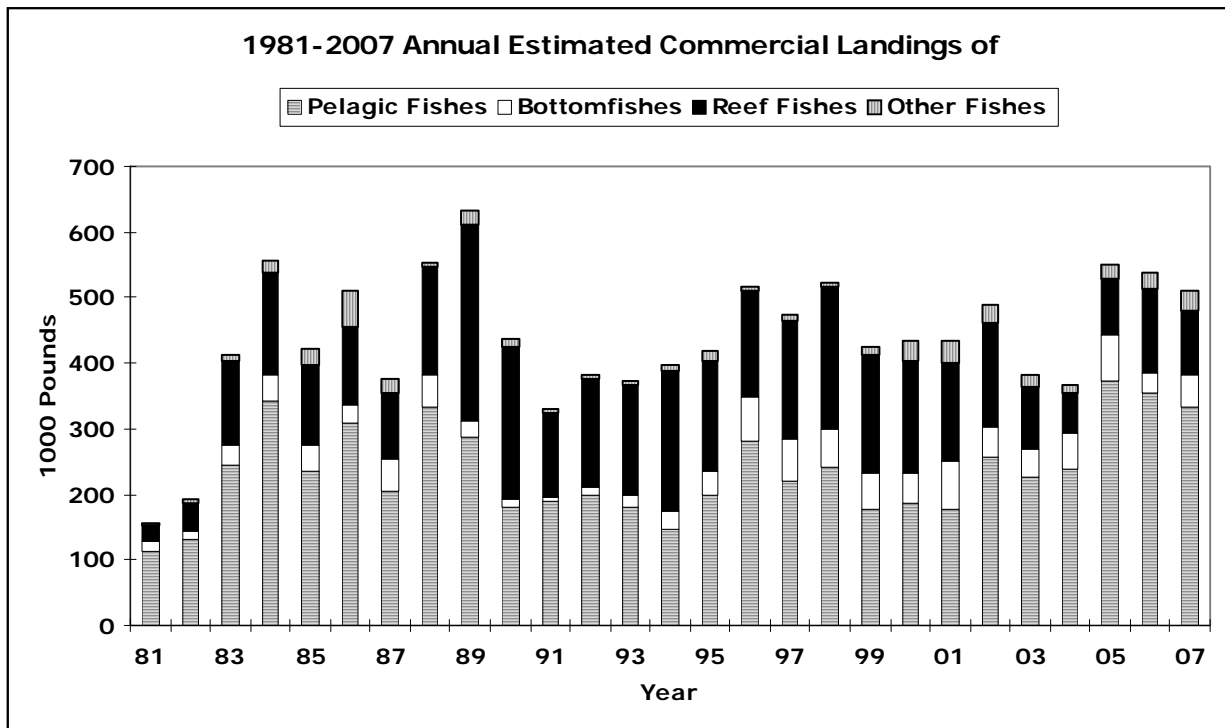


Figure B-3-2

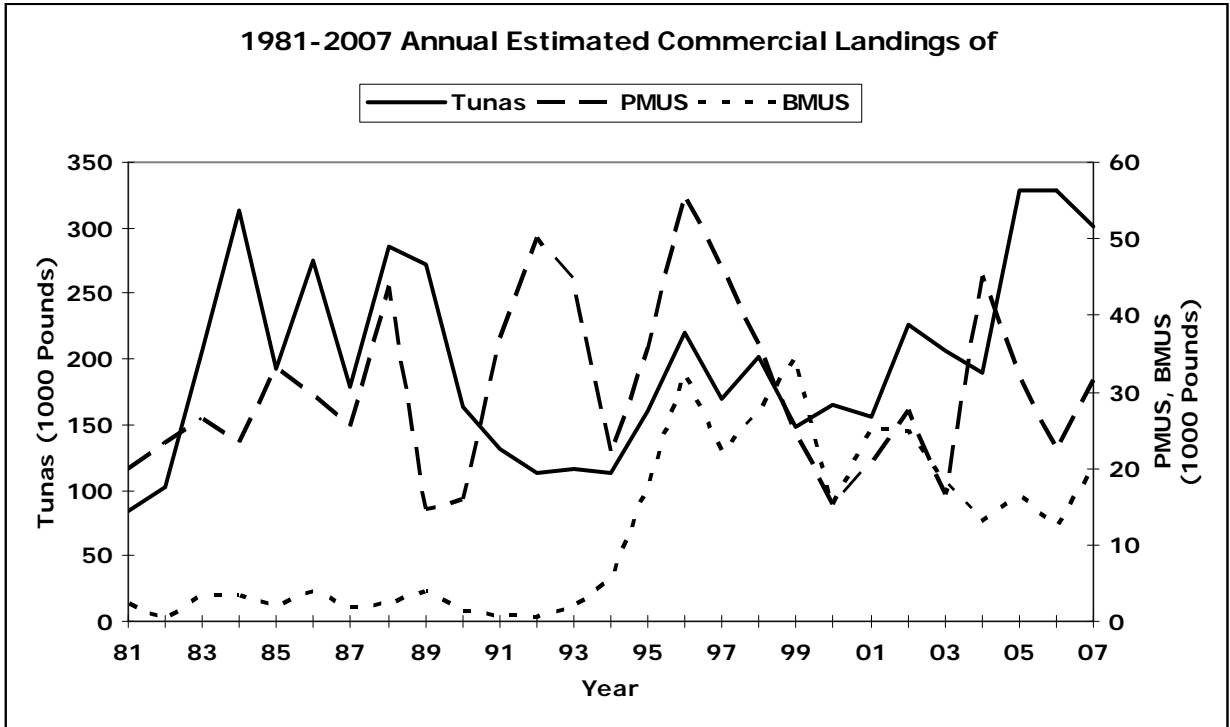


Figure B-3-3

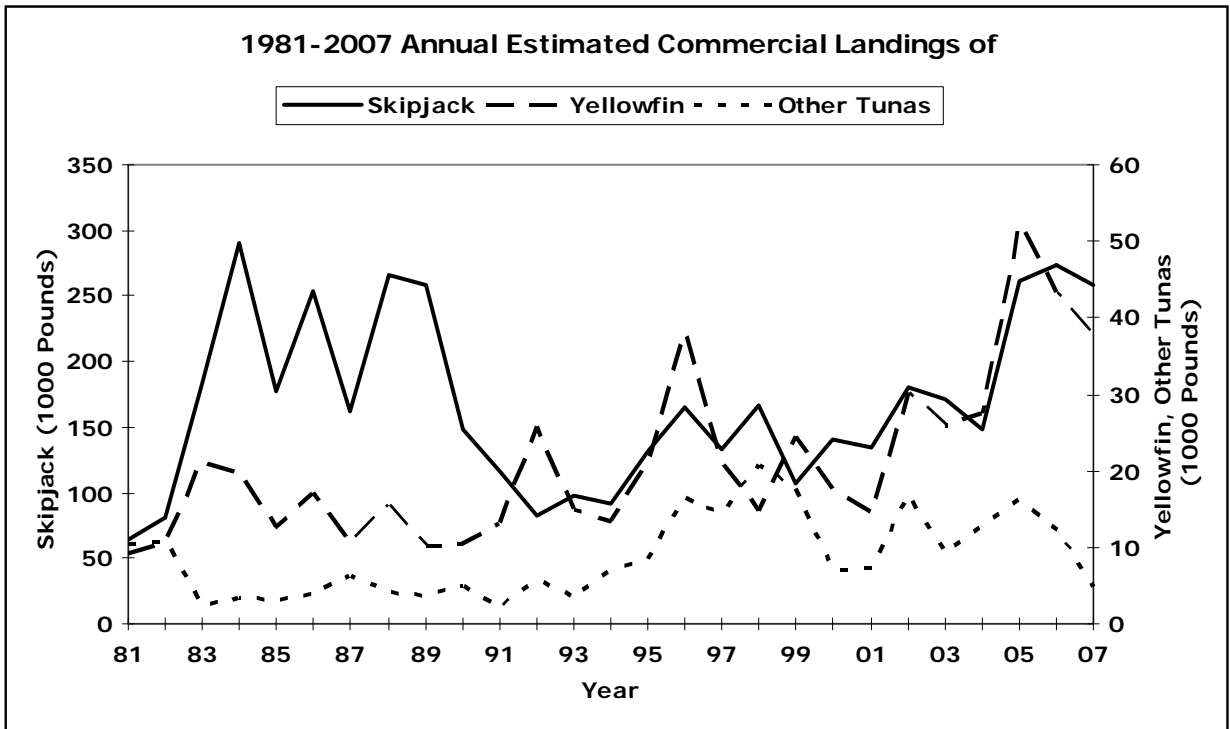


Figure B-3-4

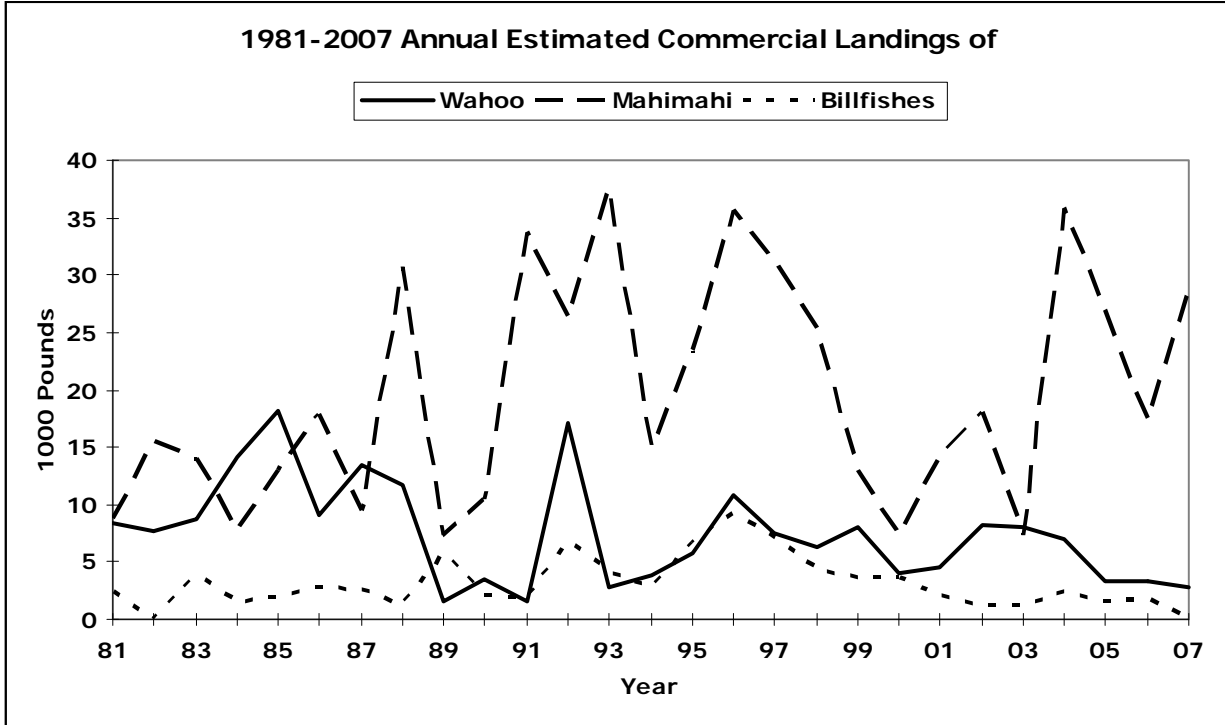


Figure B-3-5

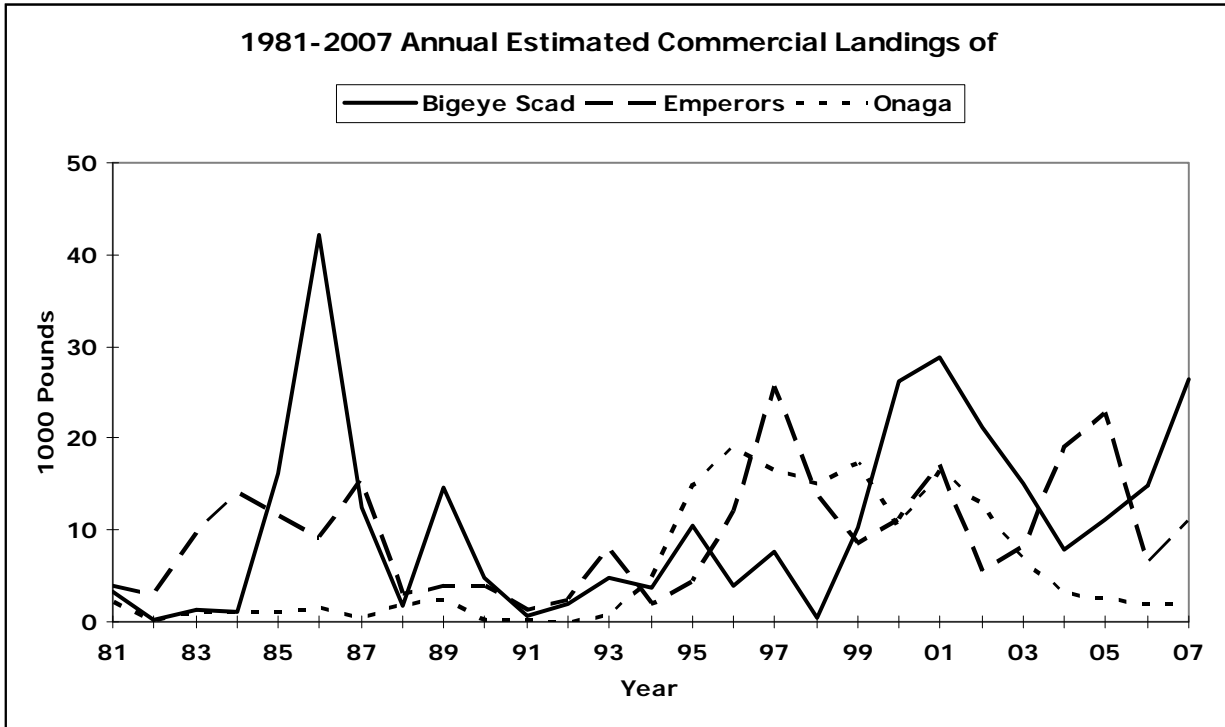


Figure B-3-6

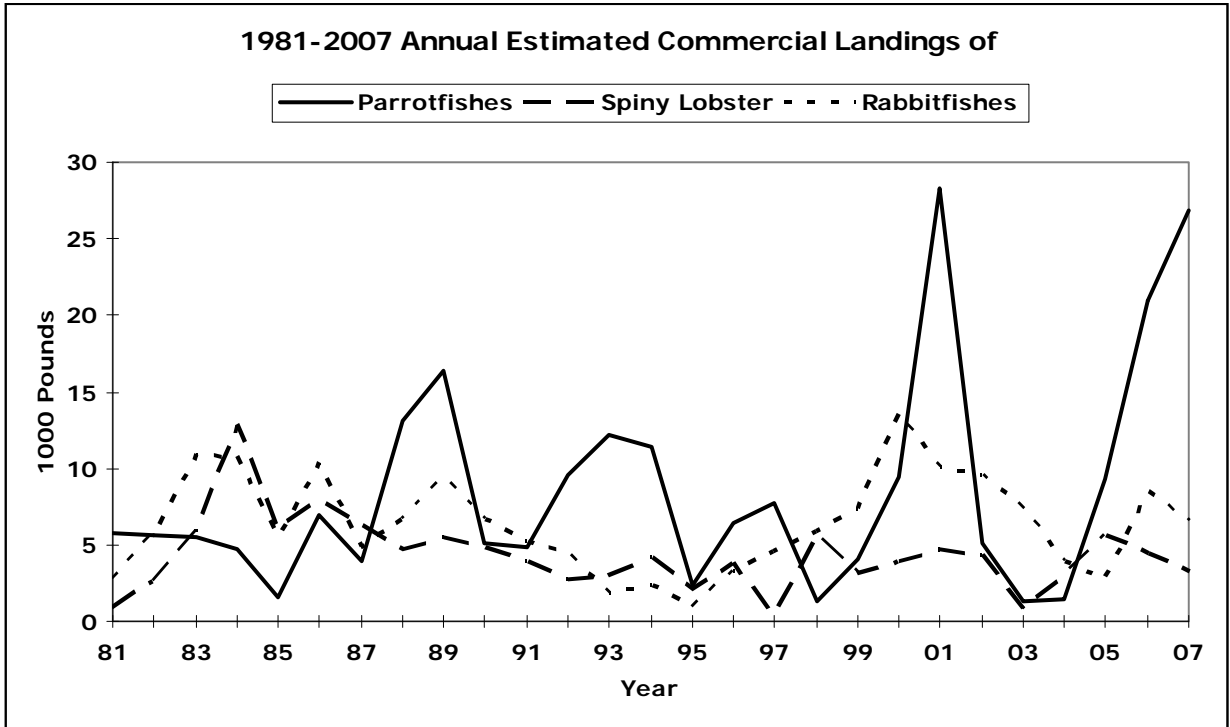


Figure B-3-7

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:

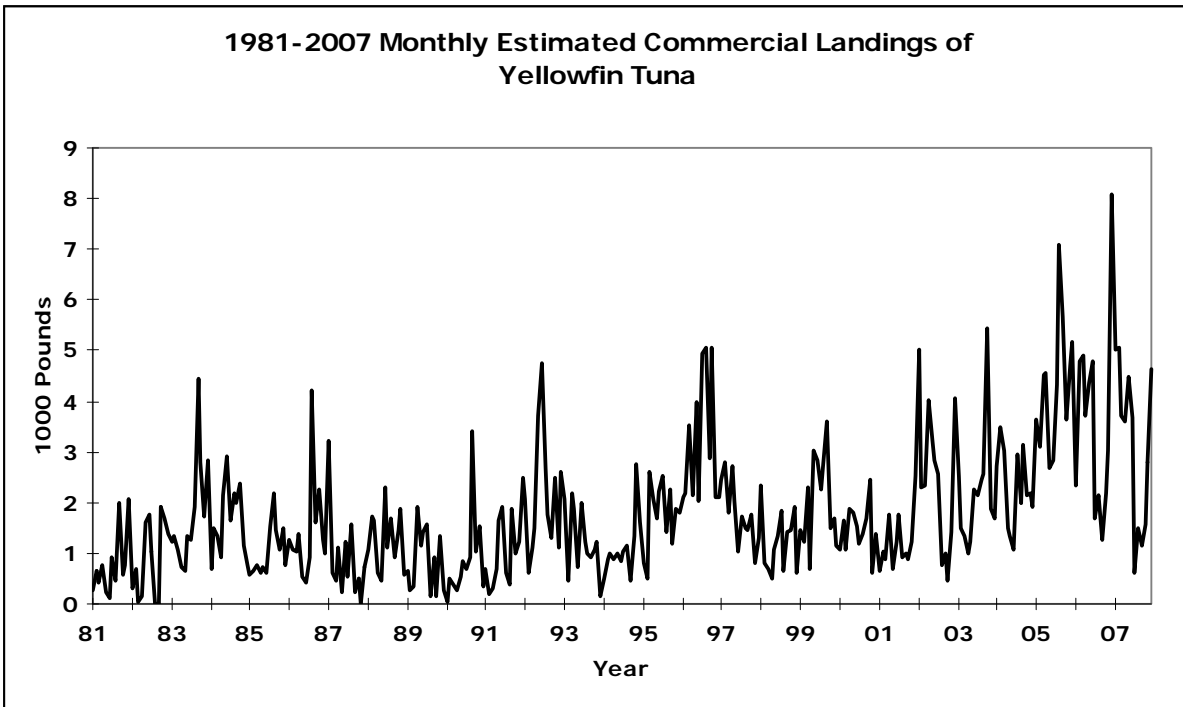


Figure B-4-1

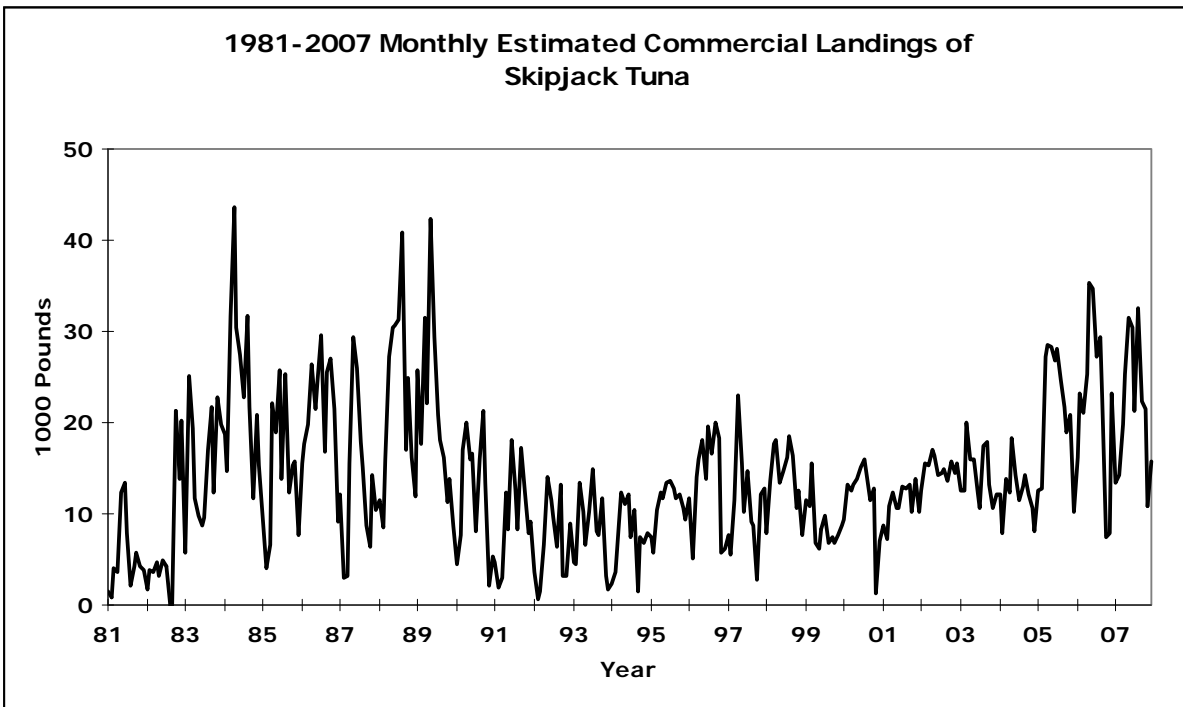


Figure B-4-2

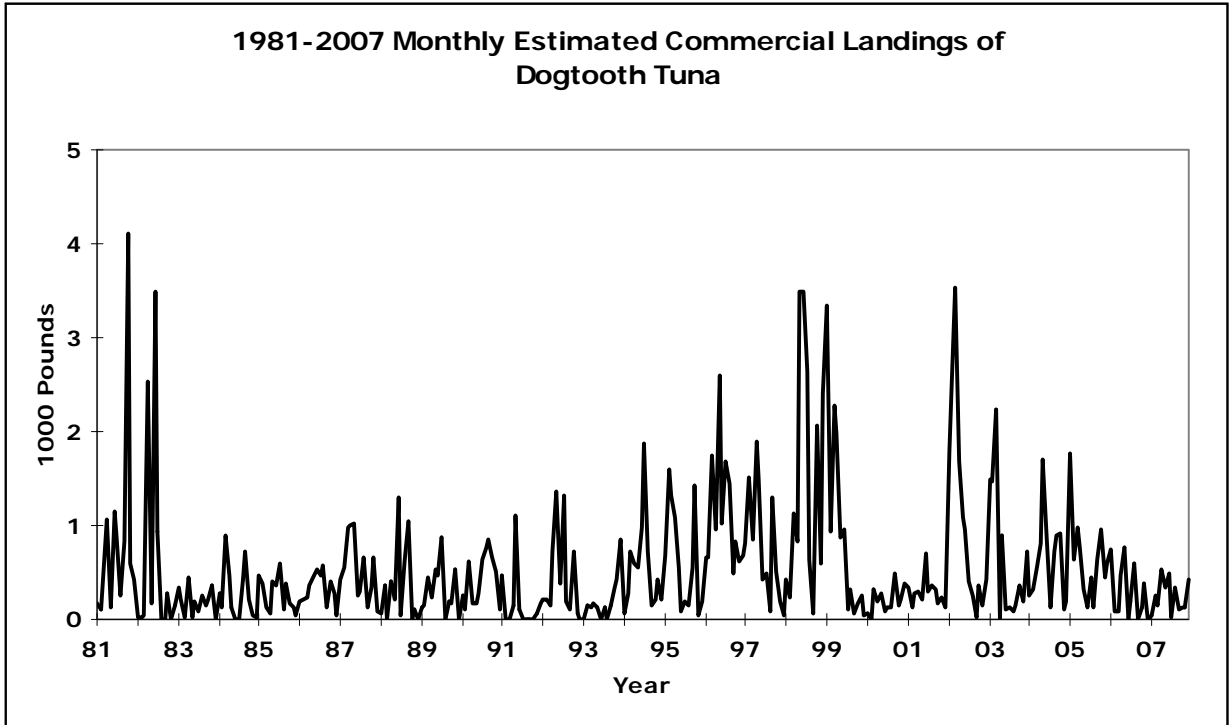


Figure B-4-3

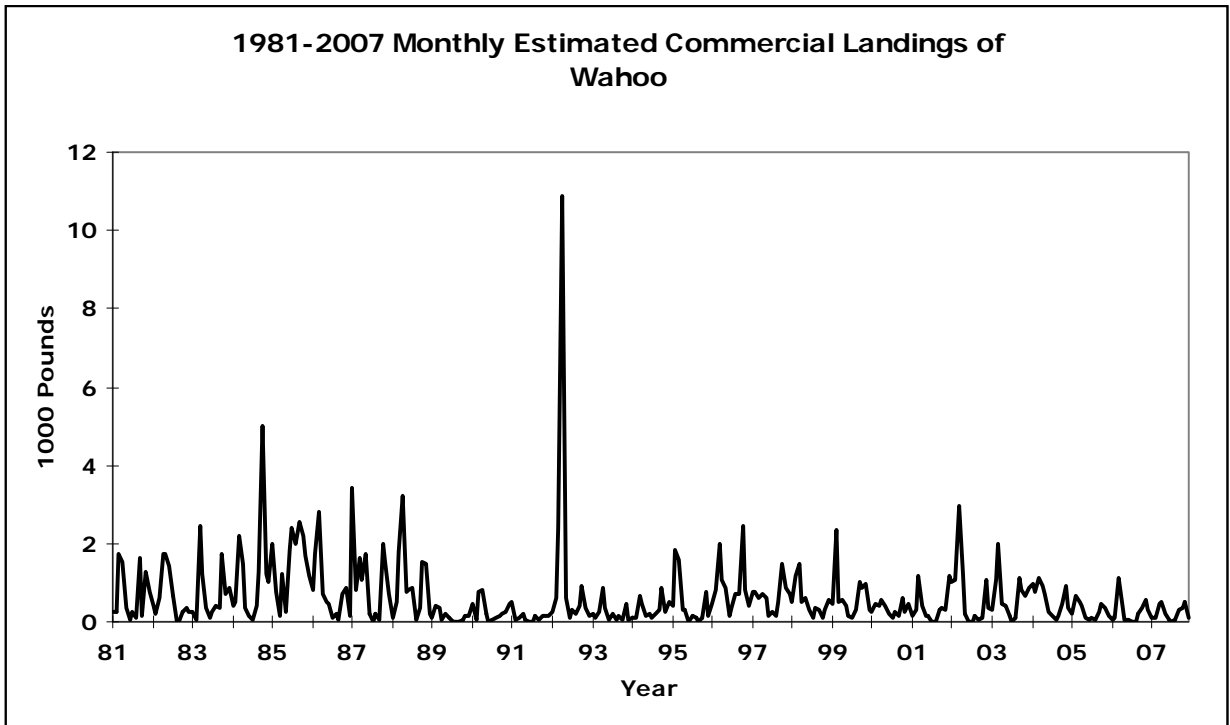


Figure B-4-4

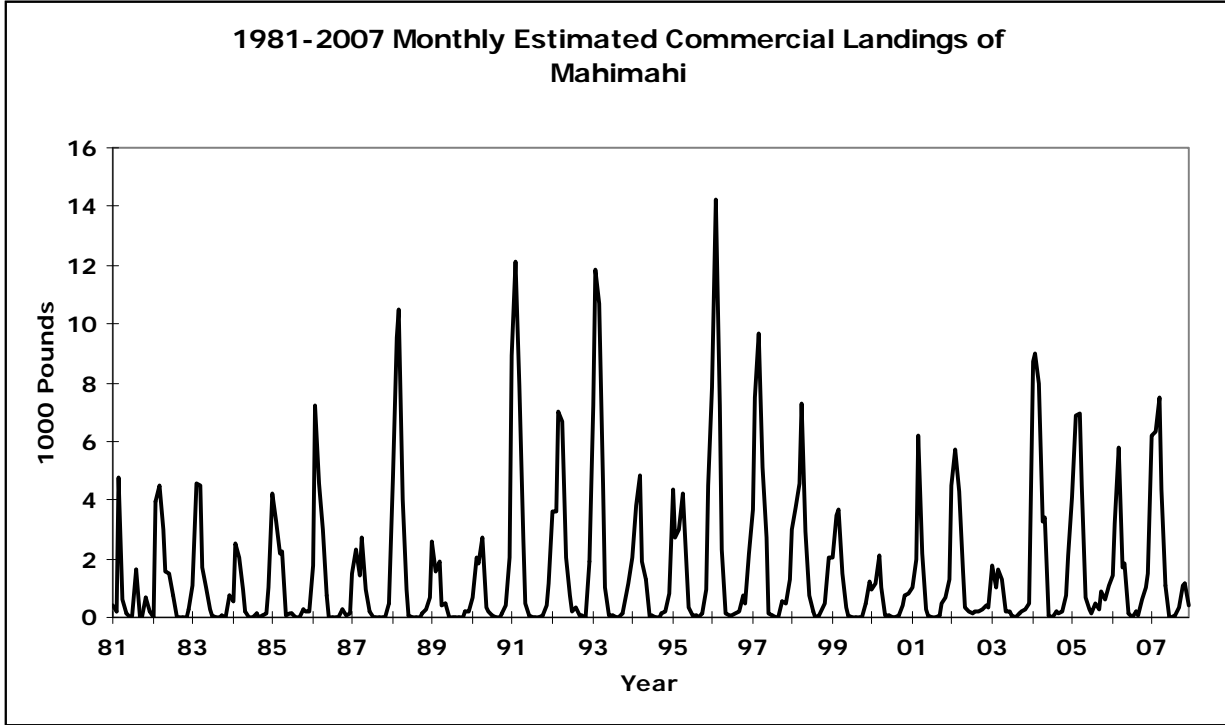


Figure B-4-5

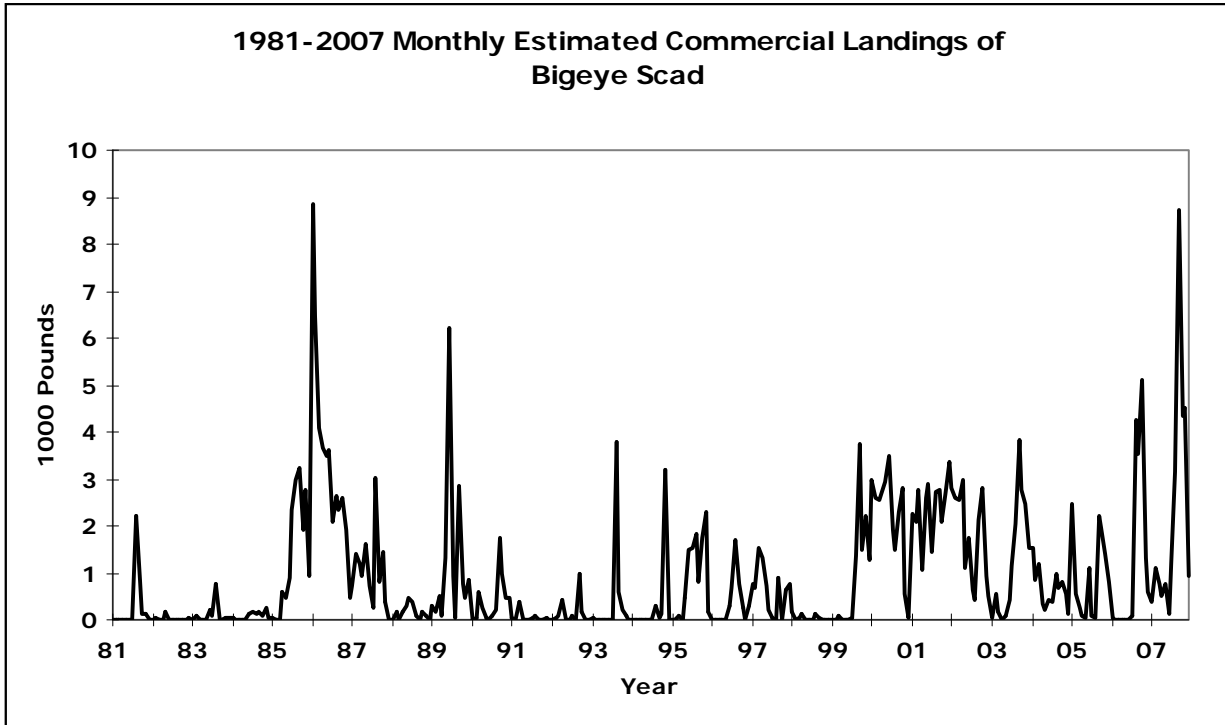


Figure B-4-6

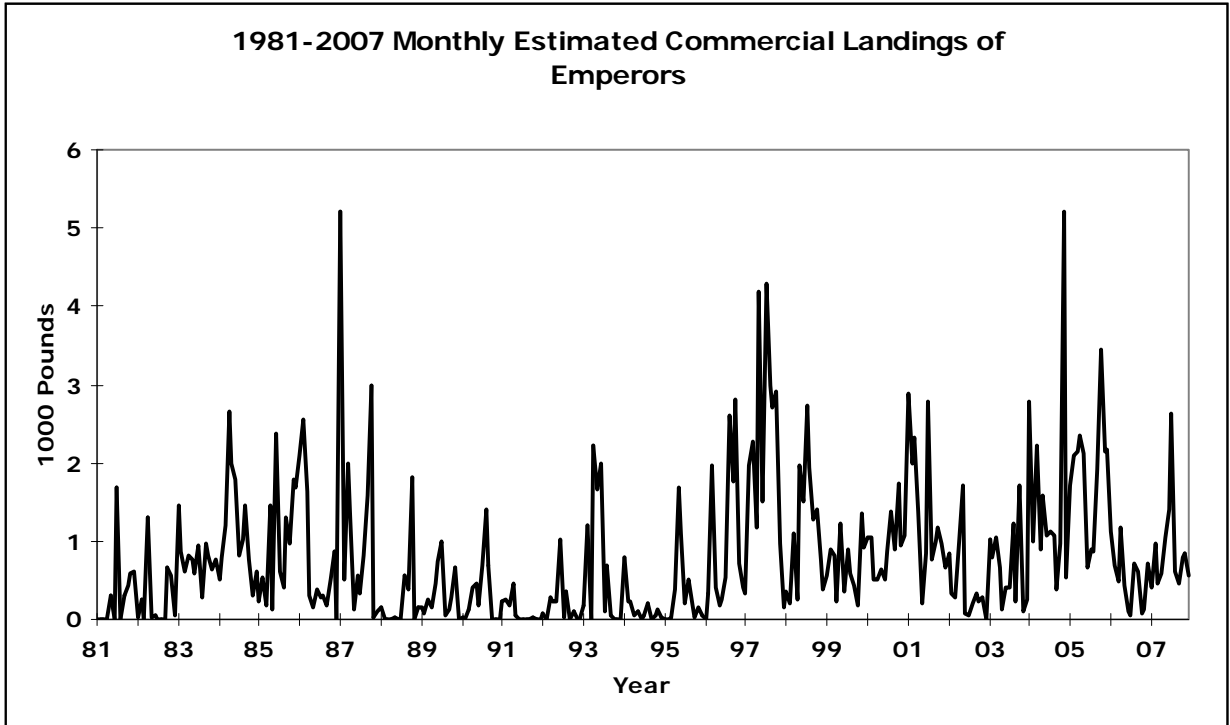


Figure B-4-7

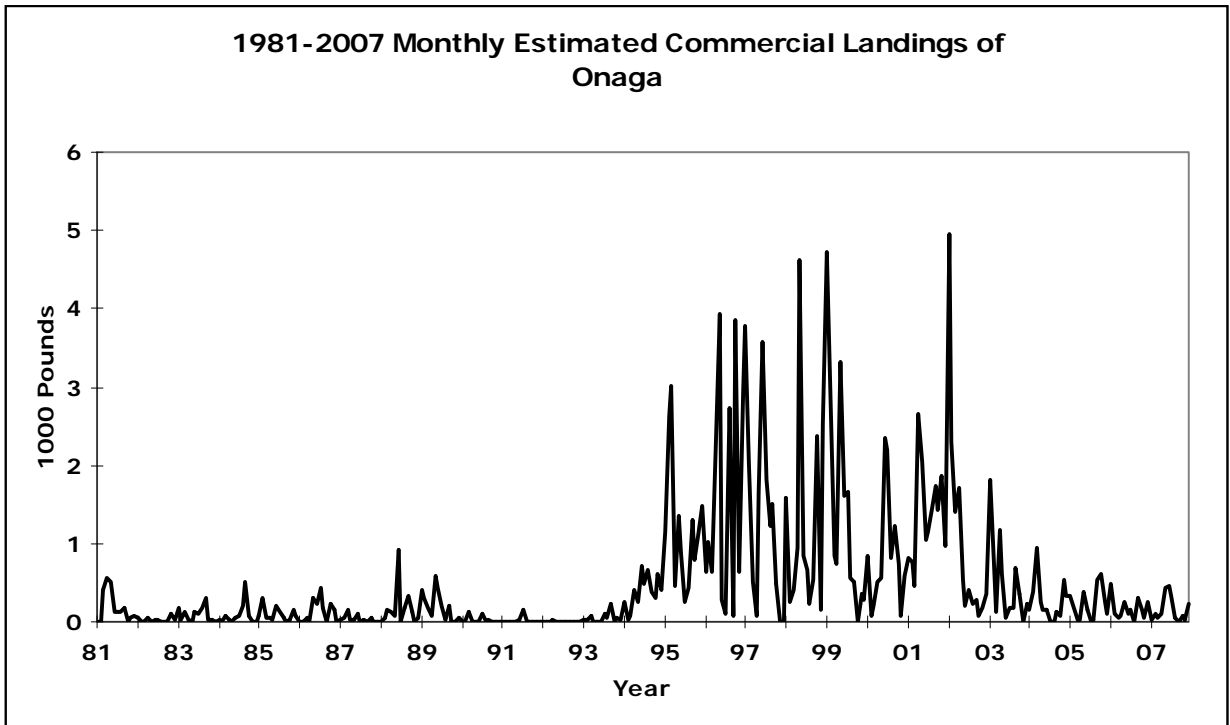


Figure B-4-8

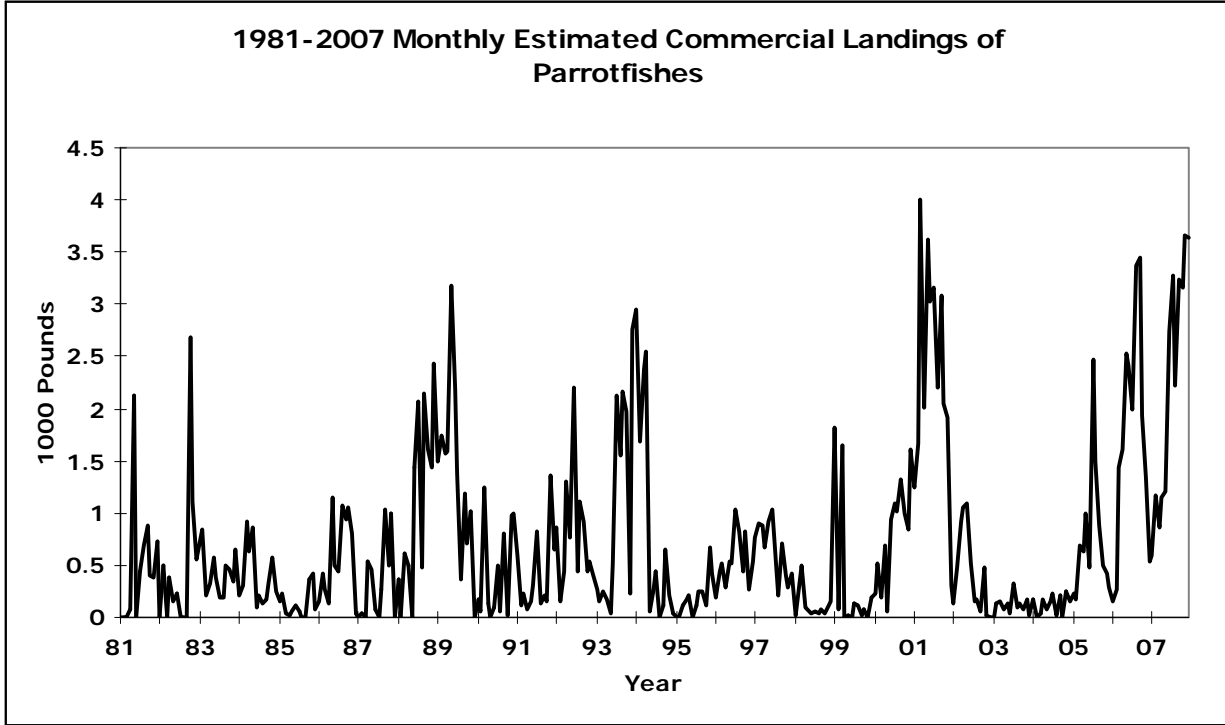


Figure B-4-9

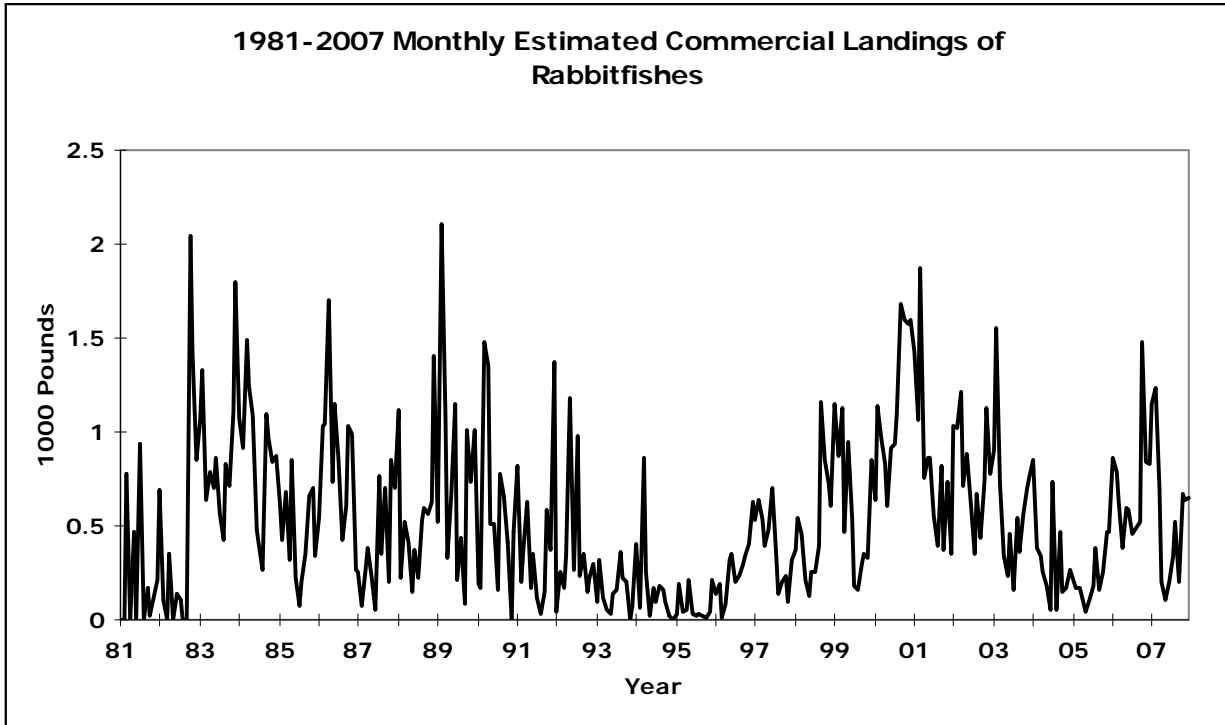


Figure B-4-10

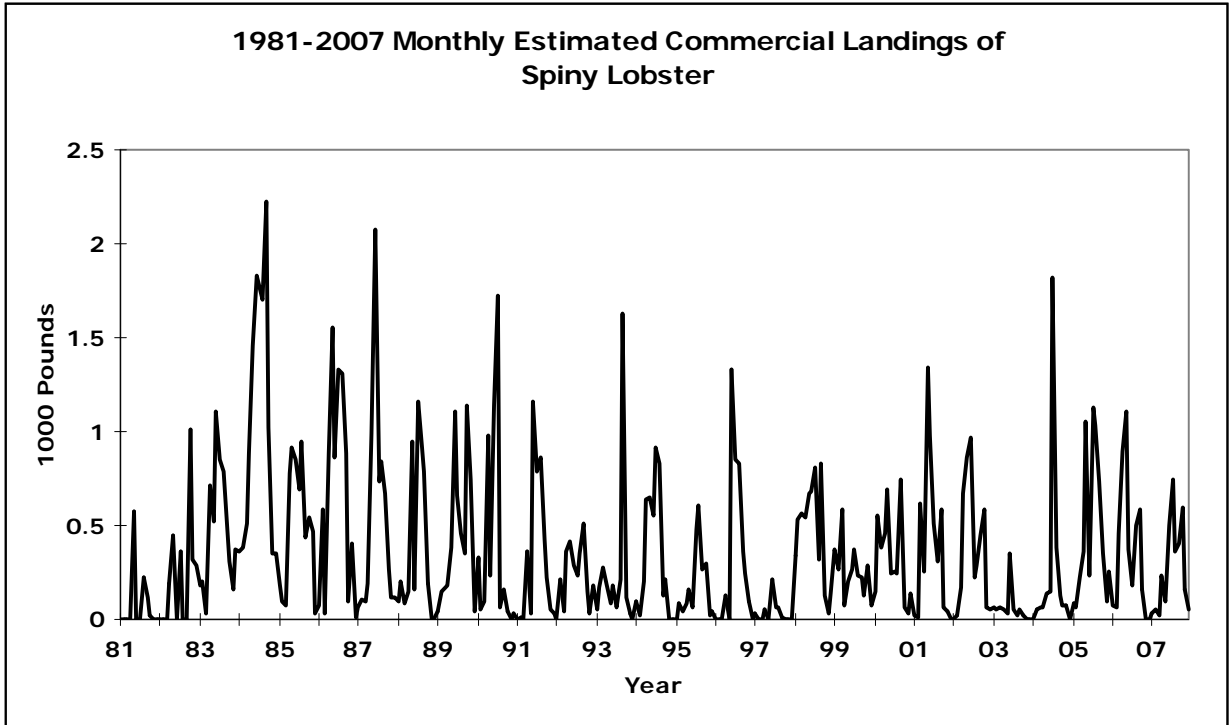


Figure B-4-11

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