

**COMMONWEALTH OF THE
NORTHERN MARIANA ISLANDS
2009 FISHERY STATISTICS**

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

December 2011

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COMMONWEALTH OF THE NORTHERN MARIANA ISLANDS 2009 FISHERY STATISTICS

INTRODUCTION

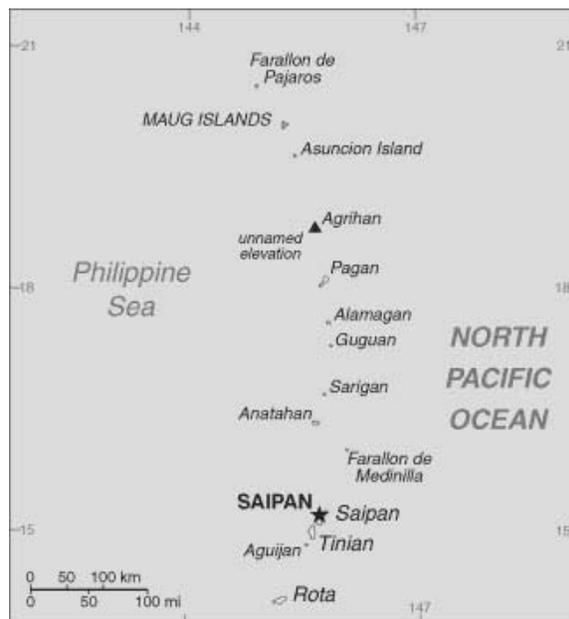
Location: 14° to 21°N latitude, 145°E longitude

Main Islands: Saipan, Rota, Tinian

Population: about 51,484 (*The World Factbook*, July 2009 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.

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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

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 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

Blue marlin
Sailfish

Spearfish

III. Tunas

Dogtooth tuna
Kawakawa (saba)
Skipjack tuna

Tunas (unknown)
Yellowfin tuna

IV. Other Tunas

Dogtooth tuna
Kawakawa (saba)

Tunas (unknown)

V. Fisheries Categories

A. *Pelagic Fishes*

Barracudas
Blue marlin
Dogtooth tuna
Kawakawa (saba)
Mahimahi
Pelagic fishes (unknown)
Rainbow runner

Sailfish
Sharks
Skipjack tuna
Spearfish
Tunas (unknown)
Wahoo
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	

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Table B-1
CNMI Annual 2009 Estimated Commercial Landings

Species	Pounds	Value (\$)	Price/Lb (\$)
Bigeye scad	25,765	64,366	2.50
Jacks	2,294	5,637	2.46
Black jack	130	326	2.51
Giant trevally	55	136	2.50
Bottomfishes (unknown)	4,802	12,082	2.52
Sickle pomfret	511	1,201	2.35
Ehu (red snapper)	2,784	10,018	3.60
Gindai (flower snapper)	2,492	9,062	3.64
Groupers	768	2,240	2.92
Kalikali (yellowtail)	2,441	6,015	2.46
Onaga (red snapper)	3,634	15,519	4.27
Opakapaka (pink snapper)	4,257	11,556	2.71
Jobfish (uku)	1,780	3,708	2.08
Silvermouth (deep lehi)	1,042	2,945	2.83
Amberjack	326	868	2.66
Blue lined snapper	1,478	3,670	2.48
Reef fishes (unknown)	38,528	98,236	2.55
Wrasses	365	873	2.39
Rabbitfishes	1,687	5,095	3.02
Emperors	12,768	32,034	2.51
Squirrelfishes	215	536	2.50
Parrotfishes	26,547	82,435	3.11
Surgeonfishes	2,432	5,226	2.15
Orangespine unicornfish	313	782	2.50
Unicornfishes	1,296	3,333	2.57
Goatfishes	830	2,077	2.50
Bigeye emperor	125	314	2.50
Pelagic fishes (unknown)	125	251	2.00
Barracudas	24	35	1.50
Mahimahi	20,030	35,743	1.78
Blue marlin	82	123	1.50
Sailfish	162	243	1.50
Rainbow runner	1,827	3,612	1.98
Wahoo	3,500	6,999	2.00
Skipjack tuna	133,794	217,460	1.63
Dogtooth tuna	2,758	4,599	1.67
Yellowfin tuna	26,463	52,061	1.97
Kawakawa (saba)	1,521	2,311	1.52
Spiny lobster	881	4,385	4.98
Slipper lobster	165	827	5.00
Octopus	503	1,032	2.05
Squid	8	16	2.00
TOTAL	331,506	709,985	2.14

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Table B-2
CNMI January 2009 Estimated Commercial Landings

Species	Pounds	Value (\$)	Price/Lb (\$)
Bigeye scad	1,088	2,711	2.49
Jacks	325	811	2.50
Black jack	33	82	2.50
Bottomfishes (unknown)	1,021	2,598	2.54
Ehu (red snapper)	200	725	3.62
Gindai (flower snapper)	193	700	3.62
Groupers	50	163	3.25
Kalikali (yellowtail)	252	636	2.52
Onaga (red snapper)	490	2,238	4.57
Opakapaka (pink snapper)	360	995	2.76
Jobfish (uku)	205	488	2.38
Amberjack	31	93	3.00
Blue lined snapper	31	52	1.68
Reef fishes (unknown)	4,166	10,950	2.63
Rabbitfishes	30	95	3.15
Emperors	753	1,882	2.50
Parrotfishes	3,394	10,826	3.19
Surgeonfishes	290	580	2.00
Mahimahi	3,465	6,900	1.99
Sailfish	60	90	1.50
Rainbow runner	191	382	2.00
Wahoo	278	556	2.00
Skipjack tuna	14,197	24,584	1.73
Dogtooth tuna	257	444	1.72
Yellowfin tuna	3,382	6,525	1.93
Kawakawa (saba)	394	588	1.49
Slipper lobster	17	86	5.00
Octopus	91	183	2.00
TOTAL	35,244	76,960	2.18

Table B-3
CNMI February 2009 Estimated Commercial Landings

Species	Pounds	Value (\$)	Price/Lb (\$)
Bigeye scad	2,112	5,297	2.51
Jacks	15	39	2.50
Bottomfishes (unknown)	1,244	3,124	2.51
Sickle pomfret	171	418	2.45
Ehu (red snapper)	156	547	3.50
Gindai (flower snapper)	91	317	3.50
Groupers	195	627	3.21
Kalikali (yellowtail)	10	28	2.75
Onaga (red snapper)	82	377	4.61
Opakapaka (pink snapper)	496	1,363	2.75
Jobfish (uku)	507	1,025	2.02
Silvermouth (deep lehi)	15	51	3.50
Blue lined snapper	85	214	2.50
Reef fishes (unknown)	3,417	8,997	2.63
Wrasses	151	356	2.36
Rabbitfishes	46	149	3.22
Emperors	2,566	6,428	2.50
Parrotfishes	2,540	8,171	3.22
Surgeonfishes	6	13	2.00
Orangespine unicornfish	92	230	2.50
Unicornfishes	269	673	2.50
Goatfishes	164	409	2.50
Mahimahi	4,823	8,869	1.84
Rainbow runner	265	507	1.91
Wahoo	1,081	2,162	2.00
Skipjack tuna	14,449	24,976	1.73
Dogtooth tuna	937	1,485	1.58
Yellowfin tuna	4,746	9,426	1.99
Kawakawa (saba)	294	504	1.71
Octopus	21	43	2.00
Squid	8	16	2.00
TOTAL	41,056	86,838	2.12

Table B-4
CNMI March 2009 Estimated Commercial Landings

Species	Pounds	Value (\$)	Price/Lb (\$)
Bigeye scad	1,041	2,615	2.51
Jacks	354	885	2.50
Black jack	21	58	2.75
Bottomfishes (unknown)	271	686	2.53
Sickle pomfret	166	381	2.29
Ehu (red snapper)	193	697	3.62
Gindai (flower snapper)	225	809	3.59
Groupers	12	35	3.00
Kalikali (yellowtail)	349	909	2.60
Onaga (red snapper)	708	3,260	4.60
Opakapaka (pink snapper)	1,042	2,909	2.79
Jobfish (uku)	217	456	2.10
Silvermouth (deep lehi)	315	917	2.92
Amberjack	154	420	2.74
Blue lined snapper	74	184	2.50
Reef fishes (unknown)	4,290	11,036	2.57
Rabbitfishes	243	645	2.66
Emperors	1,578	4,075	2.58
Parrotfishes	2,647	8,290	3.13
Surgeonfishes	367	807	2.20
Unicornfishes	235	586	2.50
Goatfishes	115	286	2.50
Pelagic fishes (unknown)	125	251	2.00
Mahimahi	5,219	8,854	1.70
Rainbow runner	85	170	2.00
Wahoo	870	1,740	2.00
Skipjack tuna	14,901	23,721	1.59
Dogtooth tuna	735	1,316	1.79
Yellowfin tuna	2,660	5,321	2.00
Kawakawa (saba)	145	218	1.50
Spiny lobster	203	1,034	5.09
Slipper lobster	32	159	5.00
Octopus	8	16	2.00
TOTAL	39,600	83,747	2.11

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Table B-5
CNMI April 2009 Estimated Commercial Landings

Species	Pounds	Value (\$)	Price/Lb (\$)
Bigeye scad	3,602	8,973	2.49
Jacks	709	1,767	2.49
Giant trevally	55	136	2.50
Bottomfishes (unknown)	128	322	2.51
Sickle pomfret	129	313	2.42
Ehu (red snapper)	706	2,512	3.56
Gindai (flower snapper)	720	2,689	3.73
Groupers	113	320	2.84
Kalikali (yellowtail)	830	2,072	2.50
Onaga (red snapper)	691	2,920	4.22
Opakapaka (pink snapper)	854	2,294	2.69
Jobfish (uku)	272	544	2.00
Silvermouth (deep lehi)	256	715	2.79
Amberjack	34	84	2.50
Blue lined snapper	304	759	2.50
Reef fishes (unknown)	5,700	14,762	2.59
Wrasses	157	347	2.21
Rabbitfishes	47	134	2.86
Emperors	774	1,959	2.53
Squirrelfishes	48	120	2.50
Parrotfishes	4,252	13,515	3.18
Surgeonfishes	185	401	2.16
Orangespine unicornfish	4	9	2.50
Unicornfishes	15	39	2.50
Goatfishes	202	506	2.50
Barracudas	24	35	1.50
Mahimahi	5,103	8,415	1.65
Sailfish	102	153	1.50
Rainbow runner	176	352	2.00
Wahoo	529	1,058	2.00
Skipjack tuna	11,286	16,998	1.51
Dogtooth tuna	240	347	1.44
Yellowfin tuna	2,512	4,805	1.91
Kawakawa (saba)	73	73	1.00
Spiny lobster	41	210	5.15
Slipper lobster	80	400	5.00
Octopus	12	33	2.83
TOTAL	40,964	91,092	2.22

Table B-6
CNMI May 2009 Estimated Commercial Landings

Species	Pounds	Value (\$)	Price/Lb (\$)
Bigeye scad	1,776	4,441	2.50
Jacks	307	703	2.29
Bottomfishes (unknown)	115	296	2.57
Sickle pomfret	45	89	2.00
Ehu (red snapper)	292	1,151	3.94
Gindai (flower snapper)	522	1,888	3.62
Groupers	166	426	2.56
Kalikali (yellowtail)	413	1,024	2.48
Onaga (red snapper)	697	2,787	4.00
Opakapaka (pink snapper)	383	979	2.56
Jobfish (uku)	145	305	2.09
Silvermouth (deep lehi)	375	1,014	2.70
Amberjack	55	139	2.50
Blue lined snapper	284	709	2.50
Reef fishes (unknown)	2,935	7,518	2.56
Rabbitfishes	8	21	2.56
Emperors	1,205	3,014	2.50
Parrotfishes	2,434	7,652	3.14
Surgeonfishes	227	454	2.00
Orangespine unicornfish	26	66	2.50
Unicornfishes	12	31	2.50
Mahimahi	174	364	2.09
Rainbow runner	72	144	2.00
Wahoo	130	259	2.00
Skipjack tuna	10,326	14,813	1.43
Dogtooth tuna	235	352	1.50
Yellowfin tuna	3,000	5,877	1.96
Kawakawa (saba)	122	201	1.65
Spiny lobster	21	88	4.22
Slipper lobster	27	136	5.00
TOTAL	26,530	56,940	2.15

B.13

Table B-7
CNMI June 2009 Estimated Commercial Landings

Species	Pounds	Value (\$)	Price/Lb (\$)
Bigeye scad	1,864	4,685	2.51
Jacks	81	153	1.89
Black jack	24	59	2.50
Bottomfishes (unknown)	435	1,089	2.50
Ehu (red snapper)	398	1,413	3.55
Gindai (flower snapper)	367	1,316	3.59
Groupers	71	204	2.87
Kalikali (yellowtail)	151	377	2.50
Onaga (red snapper)	243	948	3.90
Opakapaka (pink snapper)	214	563	2.63
Jobfish (uku)	51	103	2.00
Silvermouth (deep lehi)	27	95	3.50
Blue lined snapper	134	335	2.50
Reef fishes (unknown)	4,144	10,332	2.49
Rabbitfishes	114	354	3.10
Emperors	1,279	3,145	2.46
Parrotfishes	3,036	9,111	3.00
Surgeonfishes	164	328	2.00
Unicornfishes	64	159	2.50
Bigeye emperor	48	120	2.50
Mahimahi	7	15	2.00
Rainbow runner	220	433	1.97
Skipjack tuna	9,790	14,046	1.43
Dogtooth tuna	120	204	1.70
Yellowfin tuna	2,376	4,752	2.00
Kawakawa (saba)	99	148	1.50
Spiny lobster	506	2,504	4.94
Slipper lobster	9	45	5.00
TOTAL	26,035	57,035	2.19

Table B-8
CNMI July 2009 Estimated Commercial Landings

Species	Pounds	Value (\$)	Price/Lb (\$)
Bigeye scad	1,540	4,217	2.74
Jacks	83	207	2.50
Bottomfishes (unknown)	589	1,473	2.50
Ehu (red snapper)	131	481	3.67
Gindai (flower snapper)	64	233	3.66
Groupers	10	29	2.75
Kalikali (yellowtail)	106	265	2.50
Onaga (red snapper)	90	360	4.00
Opakapaka (pink snapper)	155	389	2.50
Silvermouth (deep lehi)	28	78	2.75
Blue lined snapper	164	410	2.50
Reef fishes (unknown)	2,780	6,950	2.50
Rabbitfishes	53	171	3.20
Emperors	274	684	2.50
Parrotfishes	1,647	4,940	3.00
Surgeonfishes	129	258	2.00
Orangespine unicornfish	1	3	2.00
Rainbow runner	7	15	2.00
Skipjack tuna	8,792	15,450	1.76
Yellowfin tuna	827	1,655	2.00
Octopus	128	268	2.09
TOTAL	17,600	38,533	2.19

Table B-9
CNMI August 2009 Estimated Commercial Landings

Species	Pounds	Value (\$)	Price/Lb (\$)
Bigeye scad	5,315	13,648	2.57
Jacks	2	6	2.50
Black jack	9	18	2.00
Bottomfishes (unknown)	429	1,073	2.50
Ehu (red snapper)	196	690	3.52
Gindai (flower snapper)	46	165	3.56
Groupers	105	310	2.96
Kalikali (yellowtail)	15	39	2.50
Onaga (red snapper)	292	1,167	4.00
Jobfish (uku)	38	76	2.00
Reef fishes (unknown)	1,826	4,383	2.40
Rabbitfishes	72	180	2.51
Emperors	915	2,286	2.50
Squirrelfishes	109	273	2.50
Parrotfishes	1,760	5,275	3.00
Surgeonfishes	250	624	2.50
Orangespine unicornfish	37	93	2.50
Unicornfishes	200	611	3.06
Goatfishes	76	191	2.50
Mahimahi	75	149	2.00
Rainbow runner	55	98	1.77
Skipjack tuna	12,506	16,858	1.35
Dogtooth tuna	15	22	1.50
Yellowfin tuna	1,592	3,184	2.00
Kawakawa (saba)	225	327	1.45
Spiny lobster	103	514	5.00
Octopus	72	144	2.00
TOTAL	26,337	52,403	1.99

Table B-10
CNMI September 2009 Estimated Commercial Landings

Species	Pounds	Value (\$)	Price/Lb (\$)
Bigeye scad	3,160	7,458	2.36
Jacks	177	464	2.62
Bottomfishes (unknown)	229	573	2.50
Ehu (red snapper)	131	458	3.50
Gindai (flower snapper)	20	70	3.50
Groupers	5	14	2.50
Kalikali (yellowtail)	137	223	1.63
Onaga (red snapper)	165	691	4.20
Opakapaka (pink snapper)	10	28	2.75
Jobfish (uku)	57	139	2.42
Silvermouth (deep lehi)	9	32	3.50
Blue lined snapper	33	82	2.50
Reef fishes (unknown)	1,637	4,091	2.50
Rabbitfishes	316	956	3.02
Emperors	565	1,414	2.50
Squirrelfishes	55	136	2.50
Parrotfishes	1,232	3,695	3.00
Surgeonfishes	320	732	2.29
Orangespine unicornfish	87	218	2.50
Unicornfishes	310	756	2.44
Goatfishes	133	332	2.50
Mahimahi	369	737	2.00
Wahoo	100	200	2.00
Skipjack tuna	9,109	15,499	1.70
Dogtooth tuna	36	64	1.75
Yellowfin tuna	1,028	2,056	2.00
Kawakawa (saba)	83	125	1.50
Spiny lobster	7	36	5.00
Octopus	15	31	2.00
TOTAL	19,536	41,308	2.11

Table B-11
CNMI October 2009 Estimated Commercial Landings

Species	Pounds	Value (\$)	Price/Lb (\$)
Bigeye scad	2,598	6,151	2.37
Jacks	39	98	2.50
Bottomfishes (unknown)	25	64	2.50
Ehu (red snapper)	168	589	3.50
Gindai (flower snapper)	131	460	3.51
Groupers	27	82	3.00
Kalikali (yellowtail)	129	323	2.50
Onaga (red snapper)	59	259	4.38
Opakapaka (pink snapper)	345	940	2.73
Jobfish (uku)	89	178	2.00
Silvermouth (deep lehi)	17	43	2.50
Amberjack	53	132	2.50
Reef fishes (unknown)	2,928	7,319	2.50
Wrasses	56	169	3.00
Rabbitfishes	334	1,049	3.14
Emperors	731	1,827	2.50
Squirrelfishes	3	7	2.50
Parrotfishes	1,052	3,046	2.90
Surgeonfishes	126	287	2.27
Orangespine unicornfish	65	164	2.50
Unicornfishes	184	459	2.50
Goatfishes	106	266	2.50
Mahimahi	196	393	2.00
Rainbow runner	160	320	2.00
Wahoo	368	736	2.00
Skipjack tuna	10,507	16,880	1.61
Yellowfin tuna	1,660	3,295	1.99
Octopus	82	169	2.06
TOTAL	22,240	45,704	2.06

Table B-12
CNMI November 2009 Estimated Commercial Landings

Species	Pounds	Value (\$)	Price/Lb (\$)
Bigeye scad	1,188	2,970	2.50
Jacks	21	52	2.50
Bottomfishes (unknown)	103	257	2.50
Ehu (red snapper)	32	111	3.50
Gindai (flower snapper)	24	83	3.50
Groupers	13	32	2.50
Kalikali (yellowtail)	30	75	2.50
Opakapaka (pink snapper)	90	248	2.75
Jobfish (uku)	38	76	2.00
Blue lined snapper	56	141	2.50
Reef fishes (unknown)	2,020	5,055	2.50
Rabbitfishes	133	430	3.24
Emperors	1,123	2,807	2.50
Parrotfishes	1,147	3,485	3.04
Surgeonfishes	151	302	2.00
Bigeye emperor	77	193	2.50
Mahimahi	175	318	1.82
Rainbow runner	550	1,101	2.00
Wahoo	120	240	2.00
Skipjack tuna	6,249	11,858	1.90
Yellowfin tuna	516	959	1.86
Kawakawa (saba)	85	128	1.50
Octopus	11	22	2.00
TOTAL	13,951	30,943	2.22

Table B-13
CNMI December 2009 Estimated Commercial Landings

Species	Pounds	Value (\$)	Price/Lb (\$)
Bigeye scad	480	1,200	2.50
Jacks	181	452	2.50
Black jack	44	109	2.50
Bottomfishes (unknown)	212	530	2.50
Ehu (red snapper)	180	644	3.58
Gindai (flower snapper)	90	332	3.69
Kalikali (yellowtail)	18	45	2.50
Onaga (red snapper)	116	511	4.39
Opakapaka (pink snapper)	309	850	2.75
Jobfish (uku)	159	318	2.00
Blue lined snapper	314	784	2.50
Reef fishes (unknown)	2,685	6,842	2.55
Rabbitfishes	290	911	3.14
Emperors	1,005	2,514	2.50
Parrotfishes	1,407	4,429	3.15
Surgeonfishes	215	441	2.05
Unicornfishes	7	18	2.50
Goatfishes	35	86	2.50
Mahimahi	425	730	1.72
Blue marlin	82	123	1.50
Rainbow runner	45	91	2.00
Wahoo	24	47	2.00
Skipjack tuna	11,682	21,776	1.86
Dogtooth tuna	183	365	2.00
Yellowfin tuna	2,163	4,207	1.95
Octopus	62	124	2.00
TOTAL	22,413	48,480	2.16

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

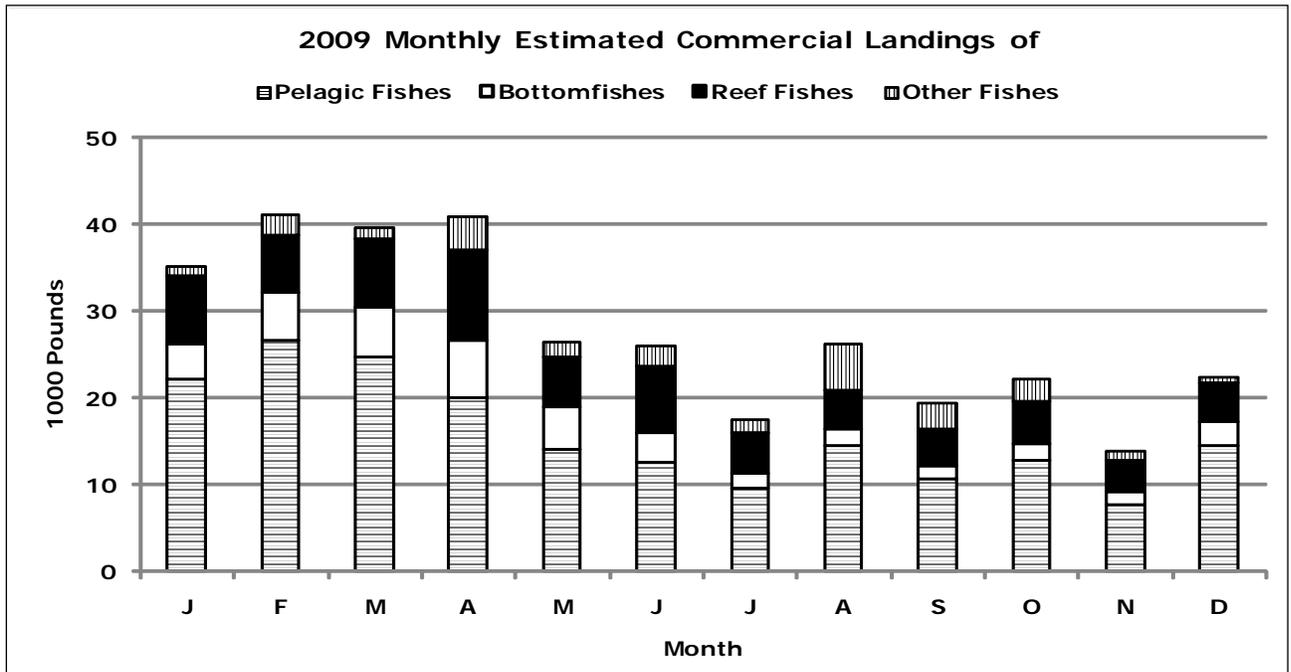


Figure B-1-1

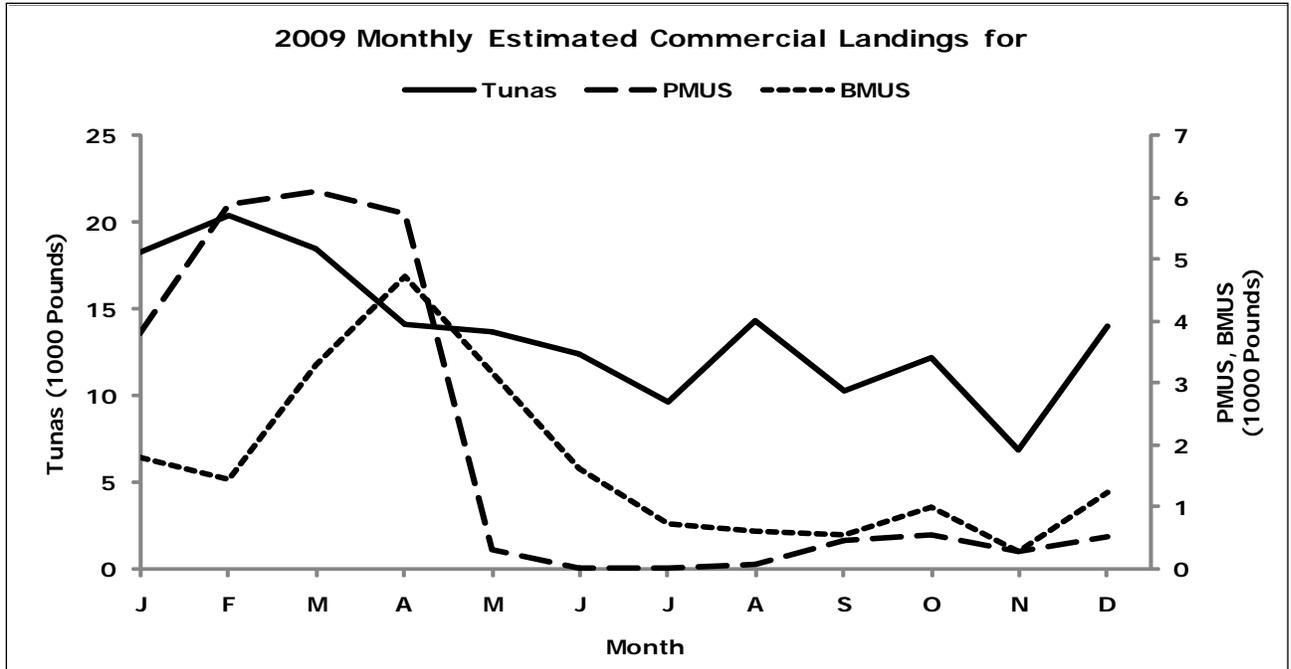


Figure B-1-2

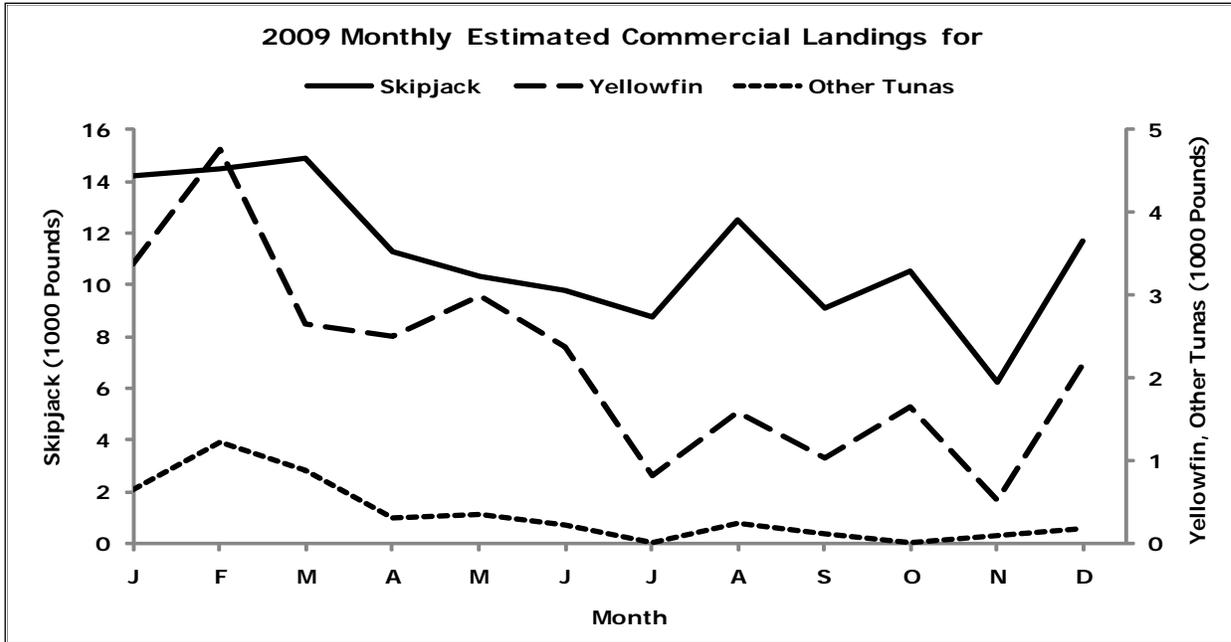


Figure B-1-3

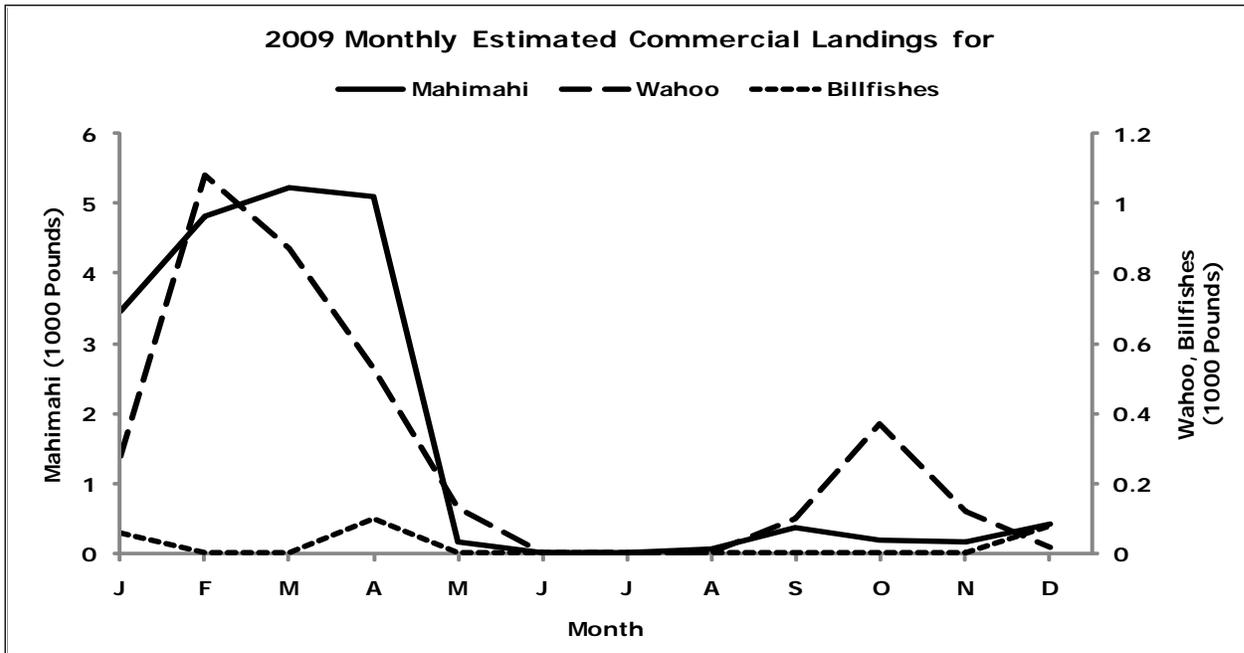


Figure B-1-4

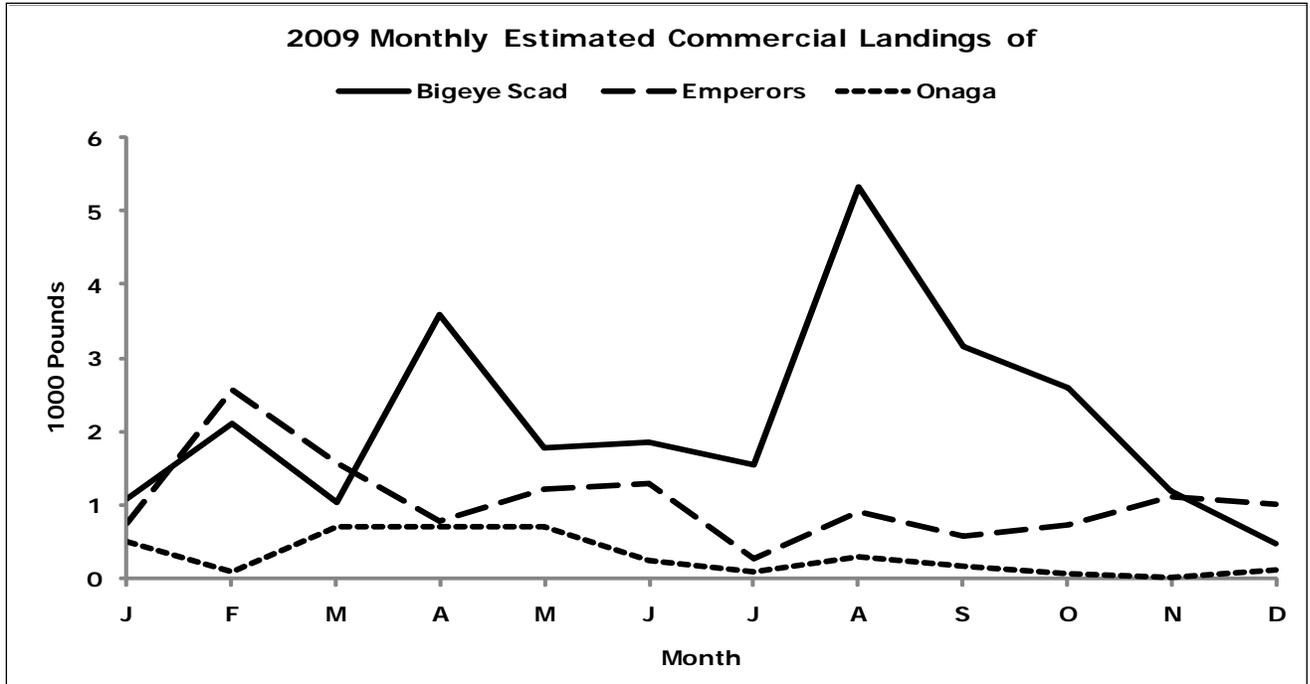


Figure B-1-5

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:

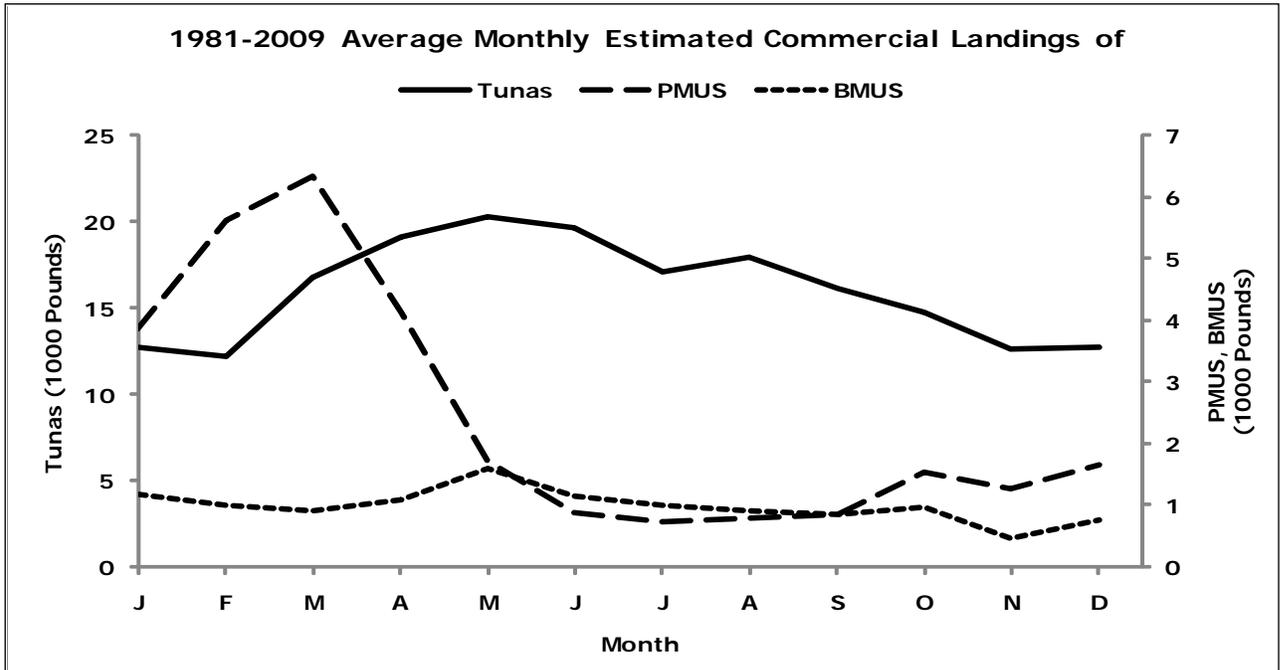


Figure B-2-1

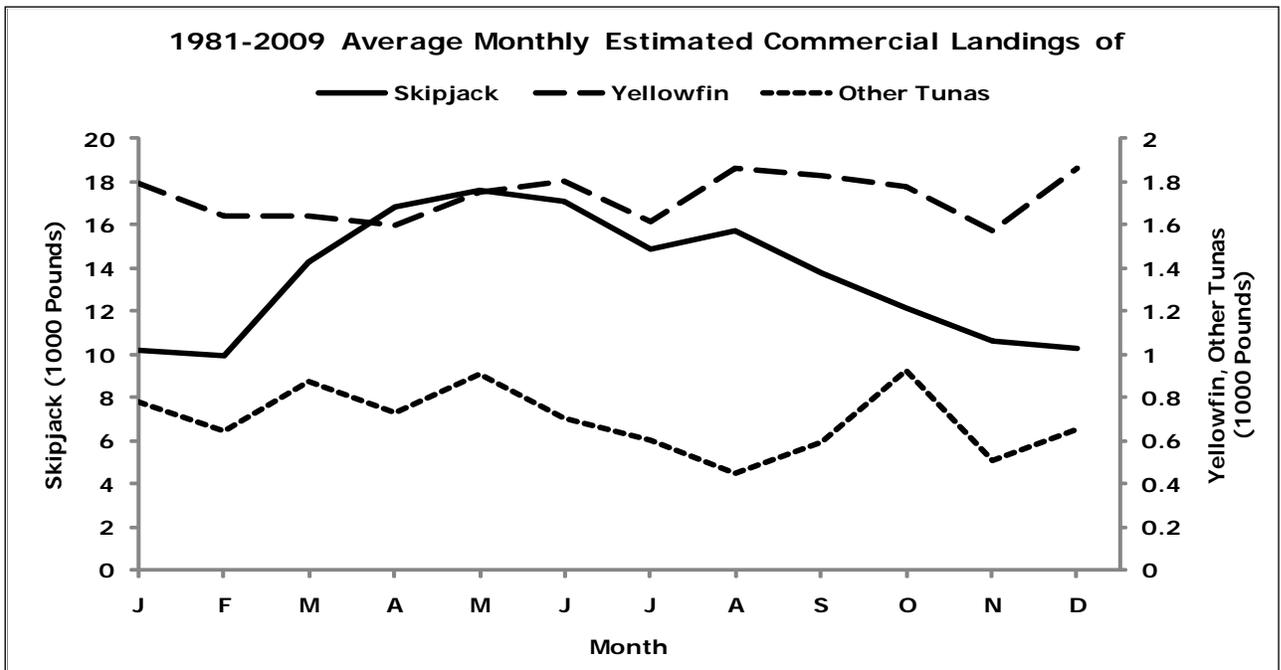


Figure B-2-2

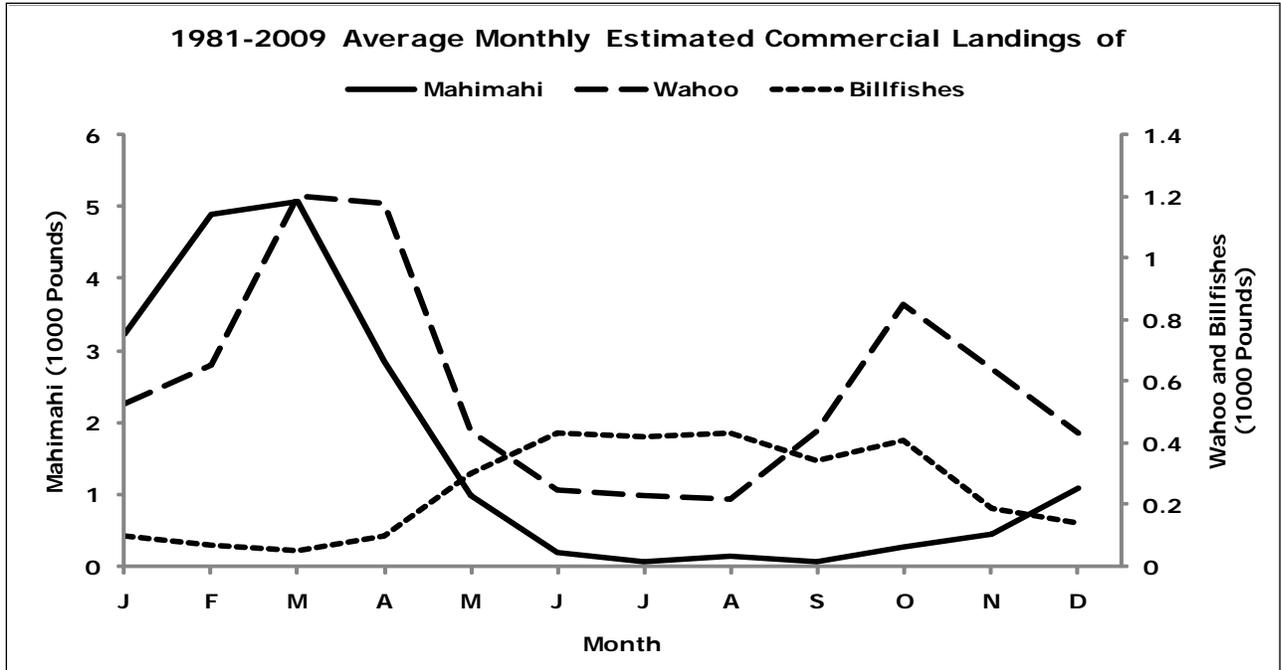


Figure B-2-3

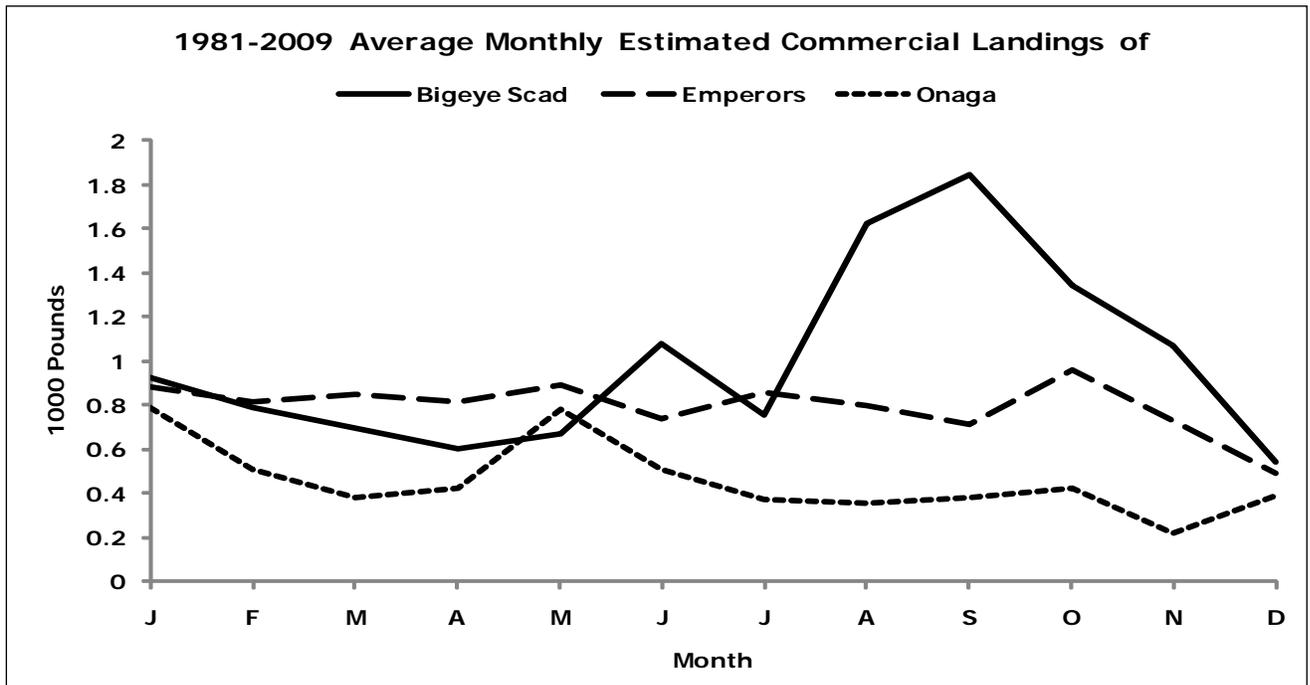


Figure B-2-4

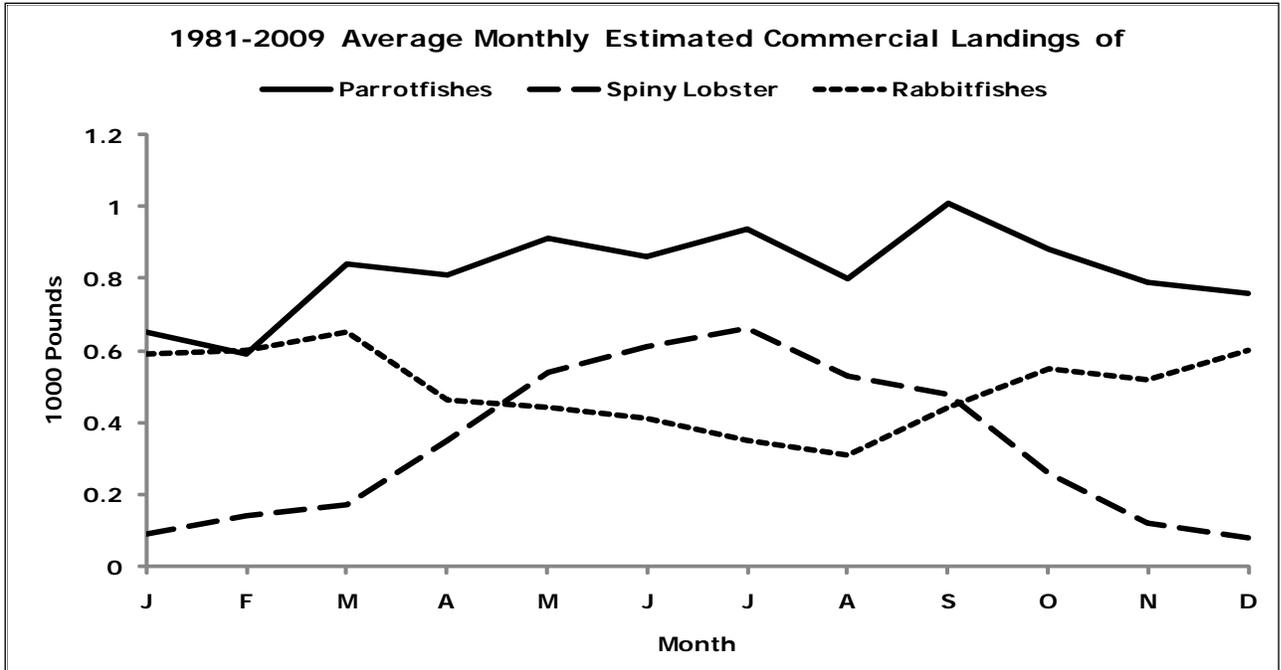


Figure B-2-5

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

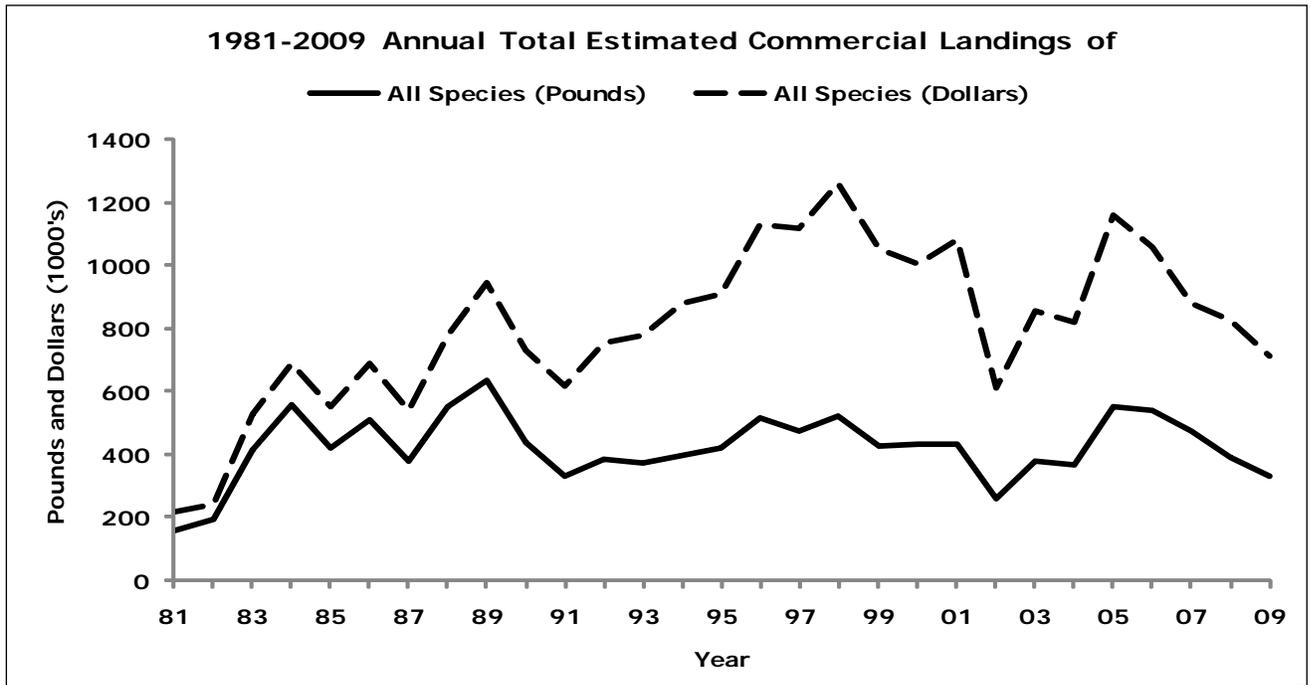


Figure B-3-1

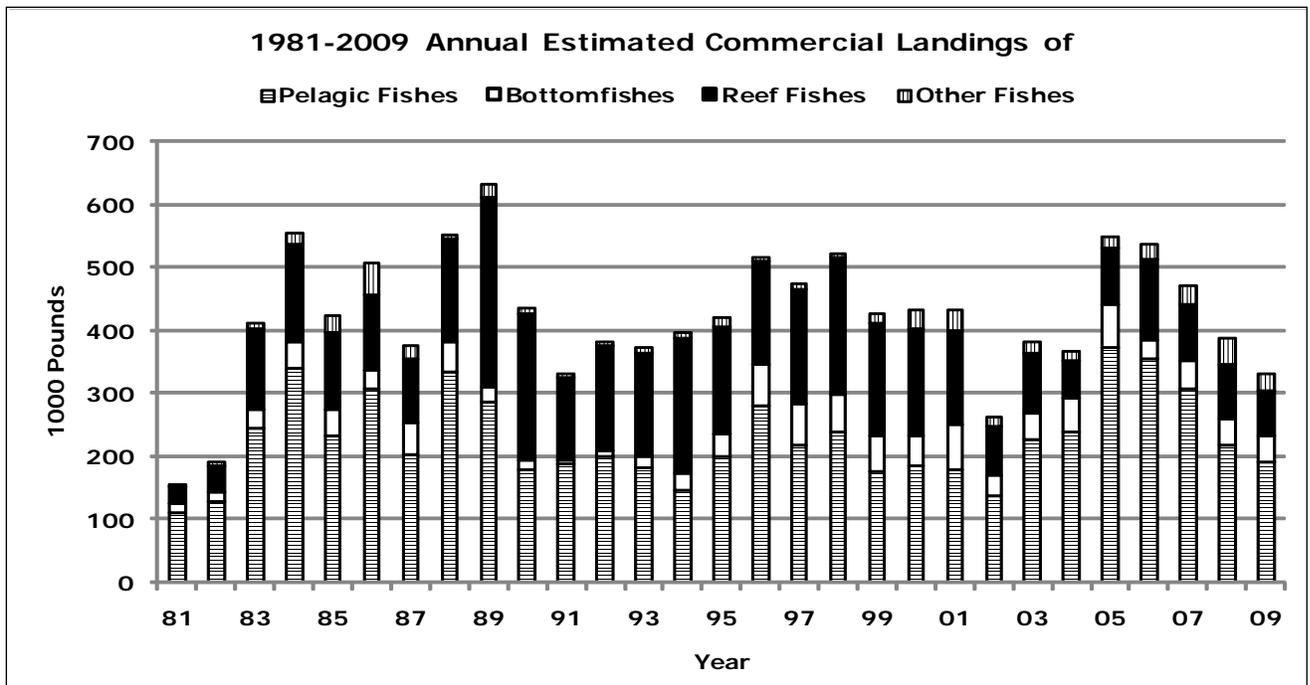


Figure B-3-2

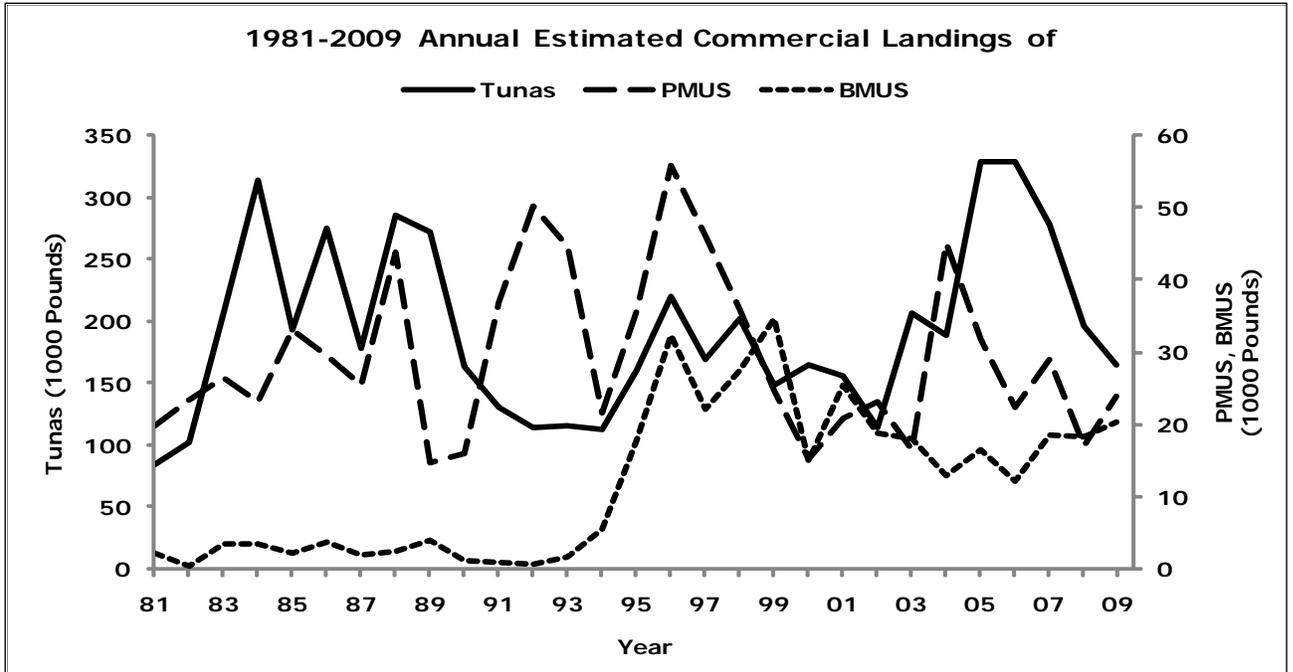


Figure B-3-3

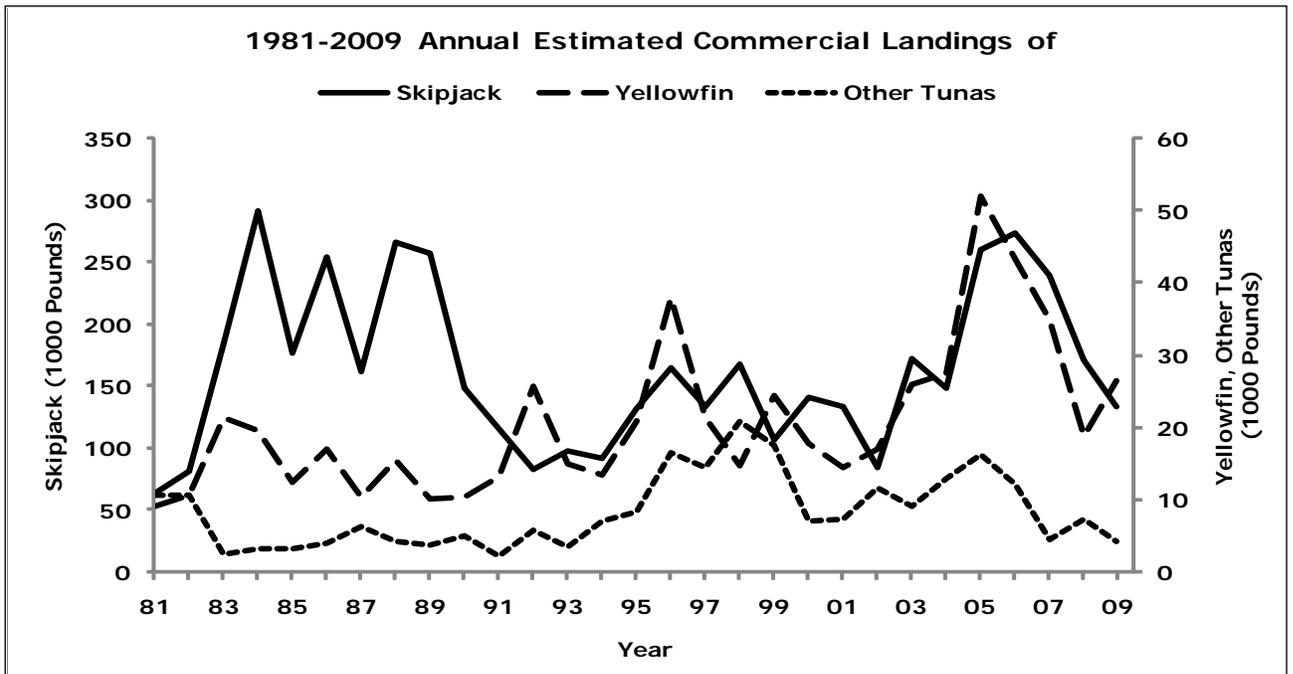


Figure B-3-4

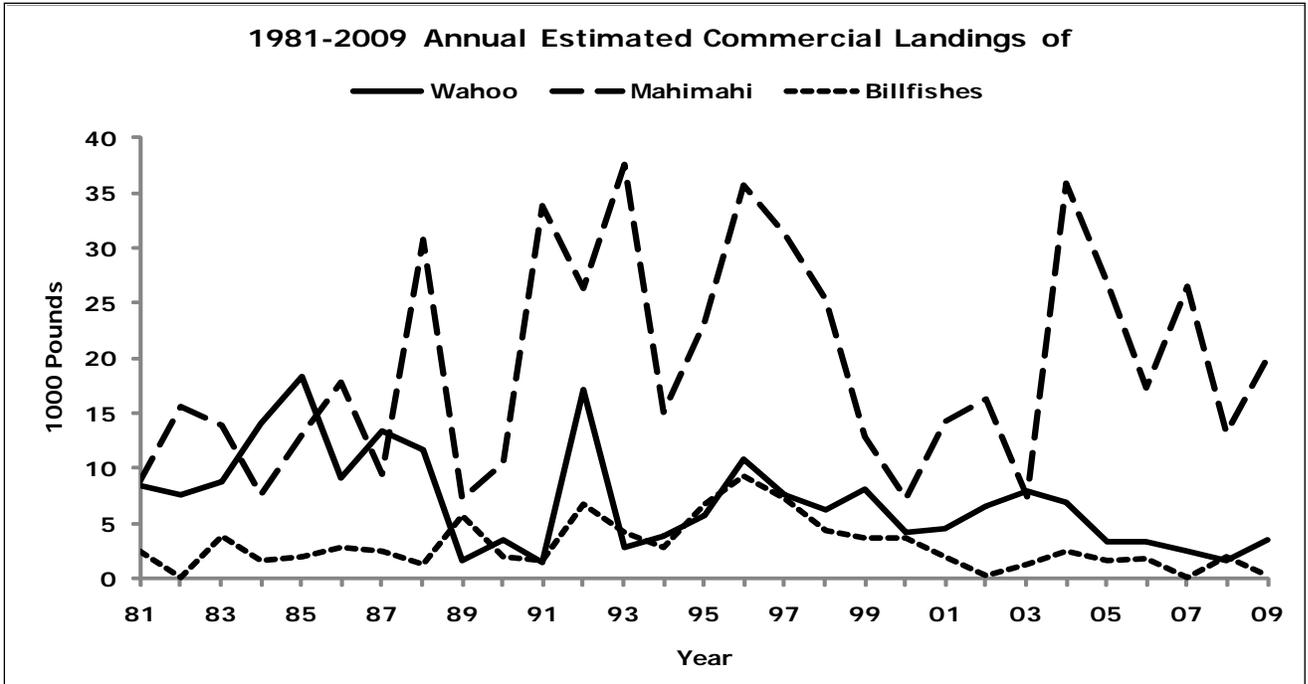


Figure B-3-5

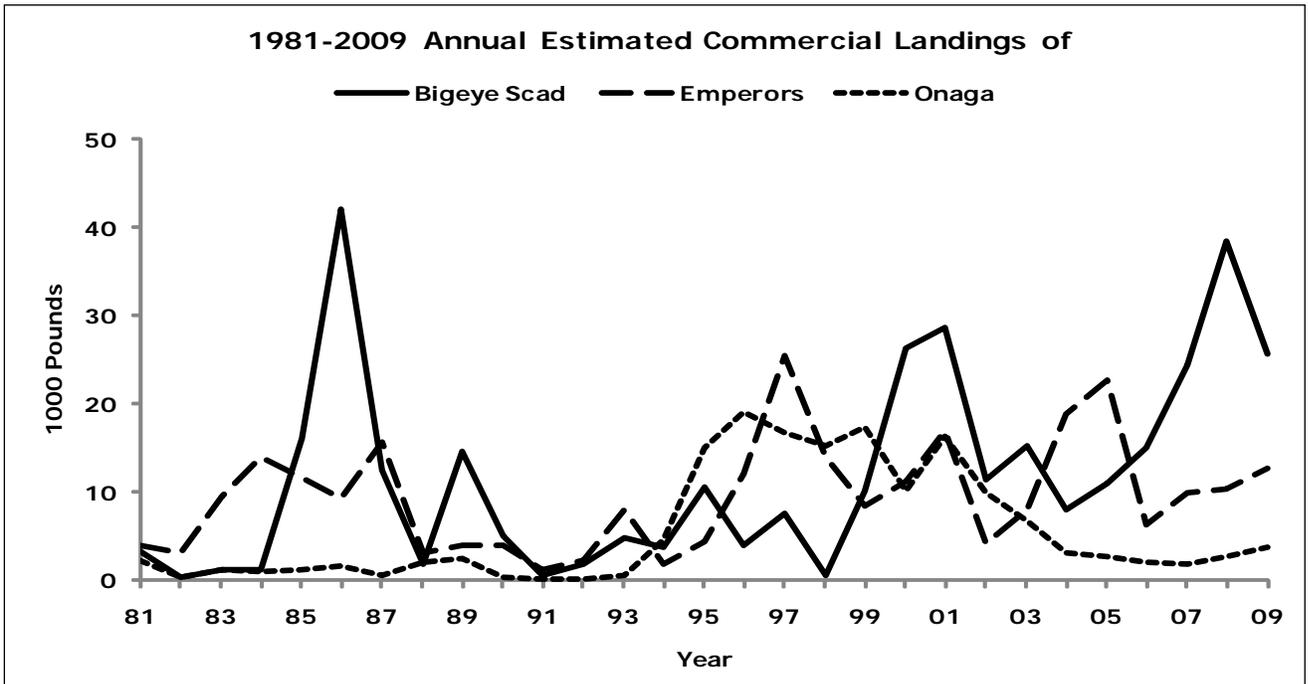


Figure B-3-6

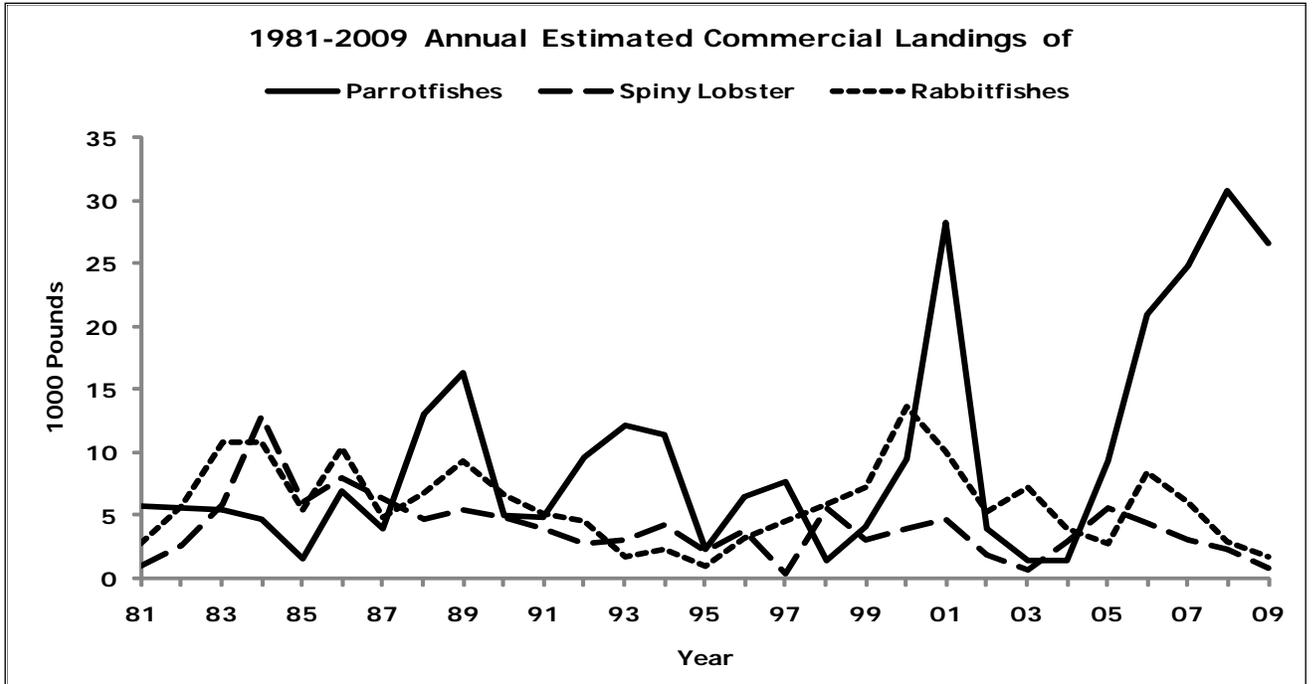


Figure B-3-7

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:

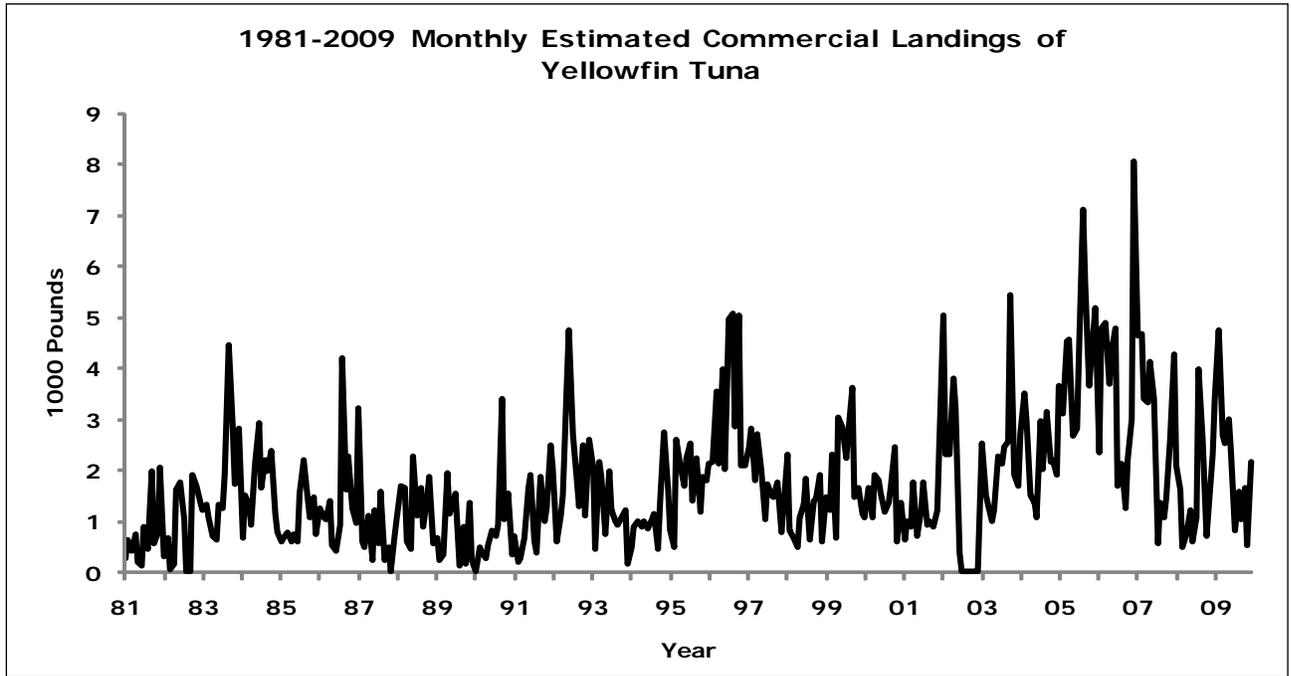


Figure B-4-1

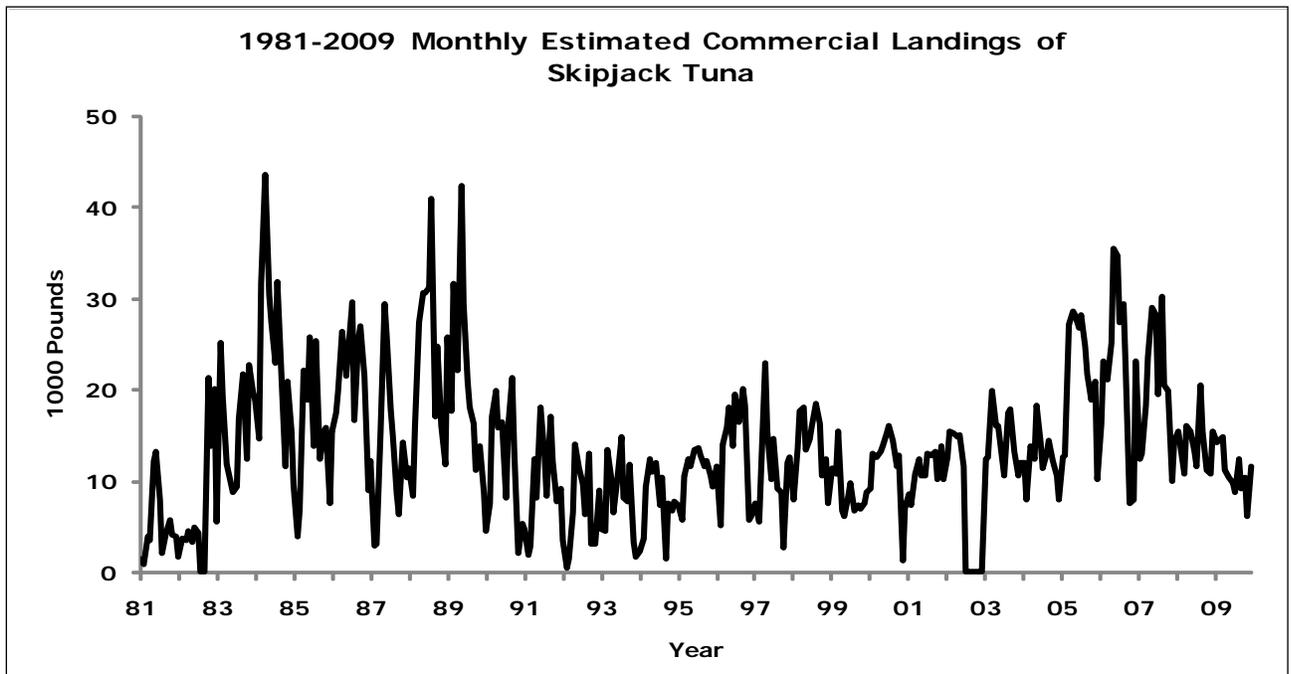


Figure B-4-2

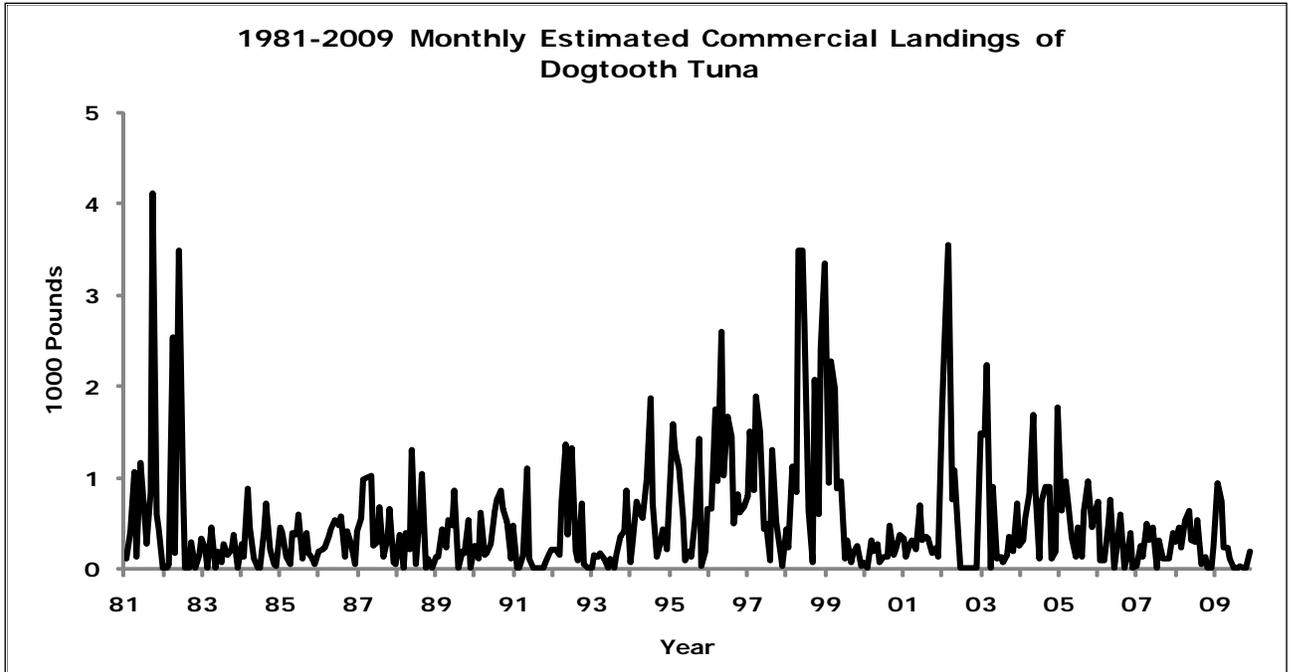


Figure B-4-3

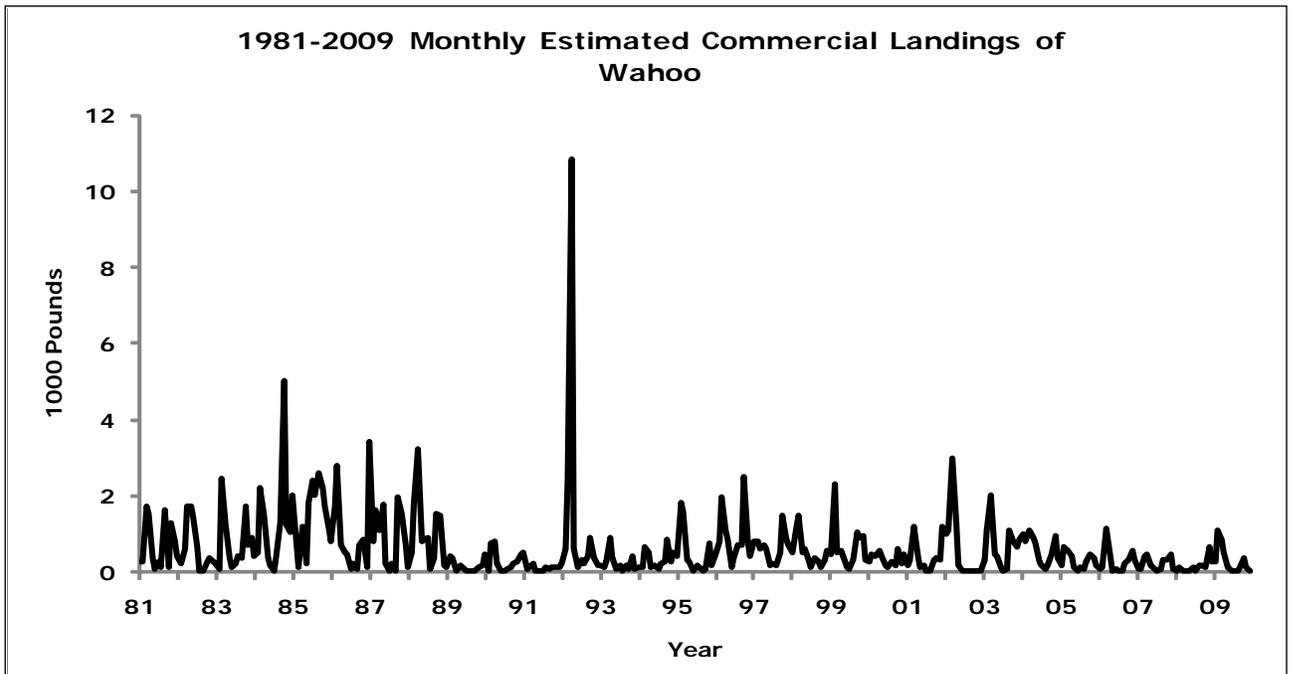


Figure B-4-4

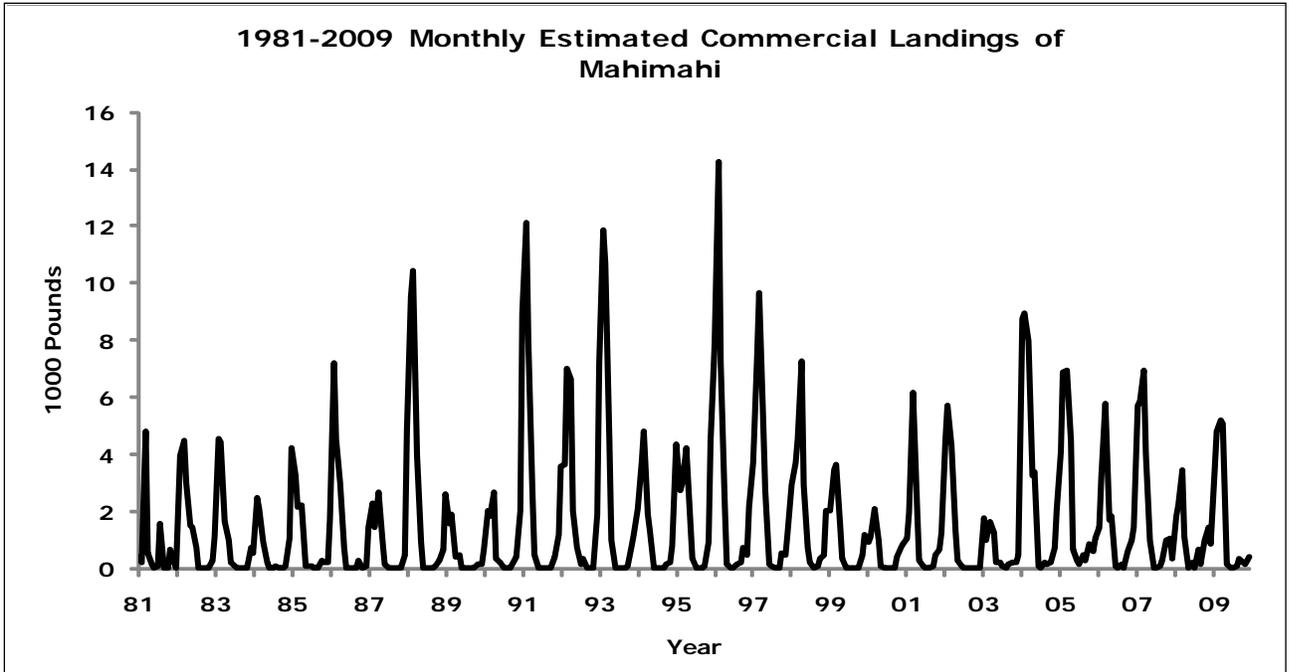


Figure B-4-5

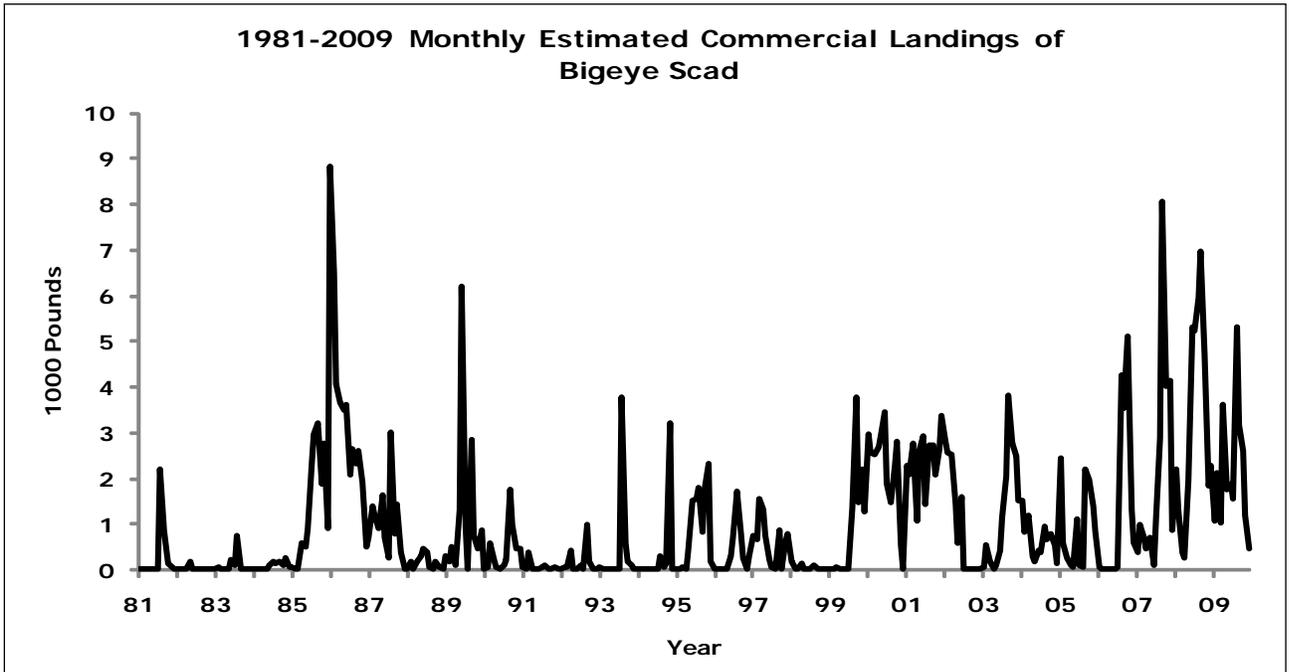


Figure B-4-6

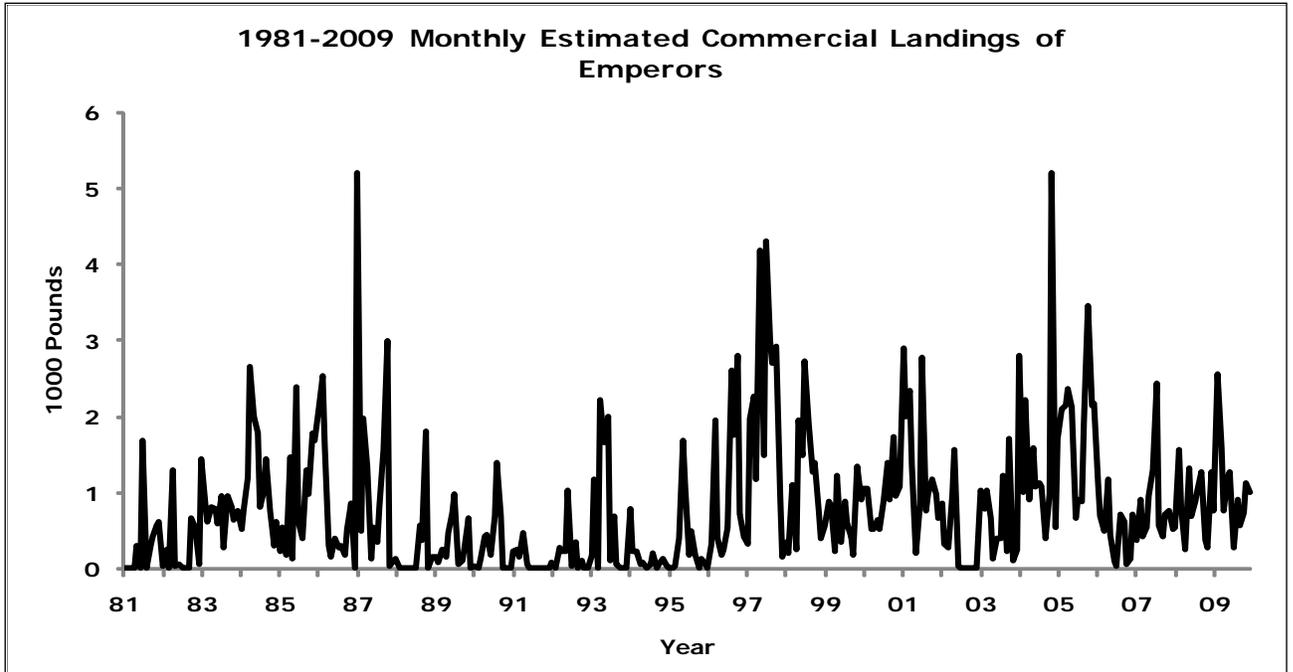


Figure B-4-7

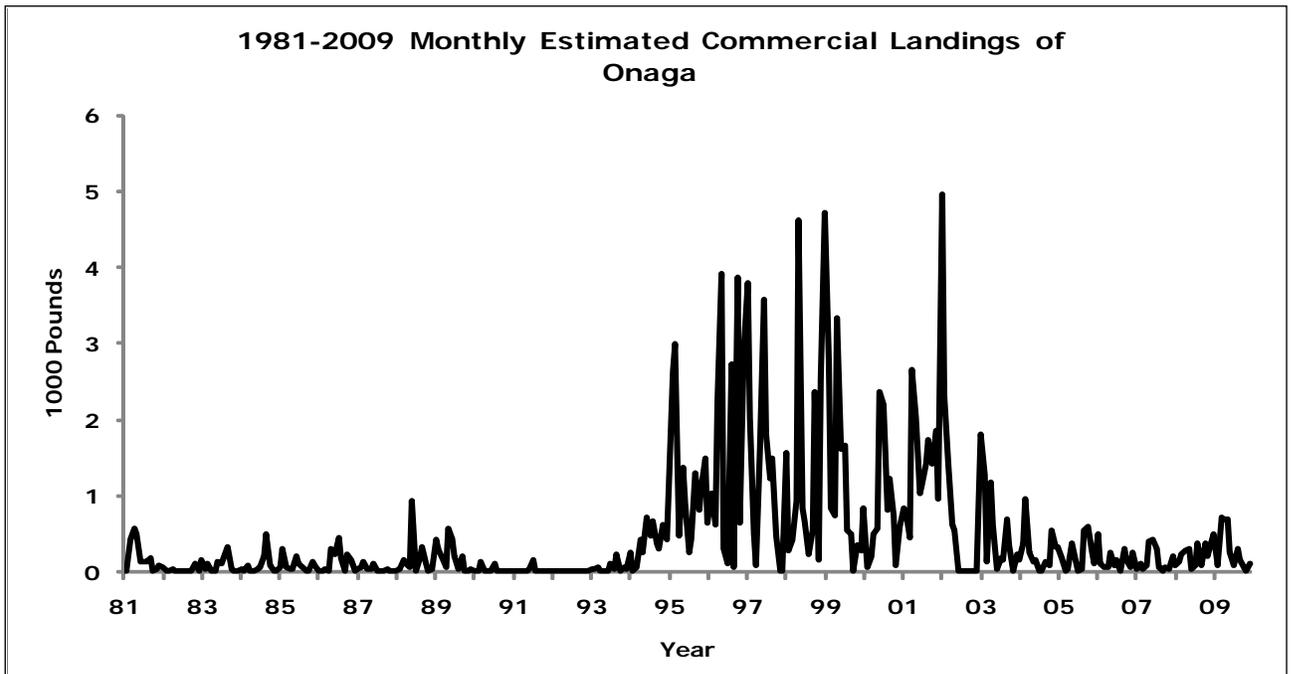


Figure B-4-8

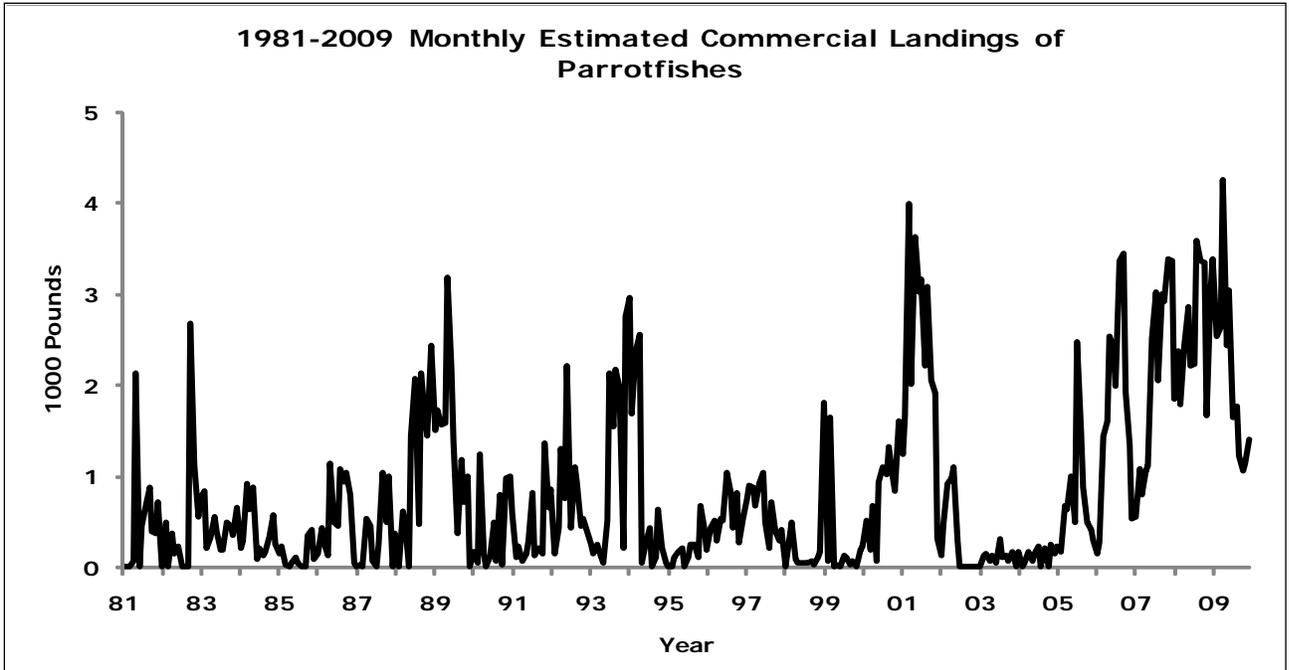


Figure B-4-9

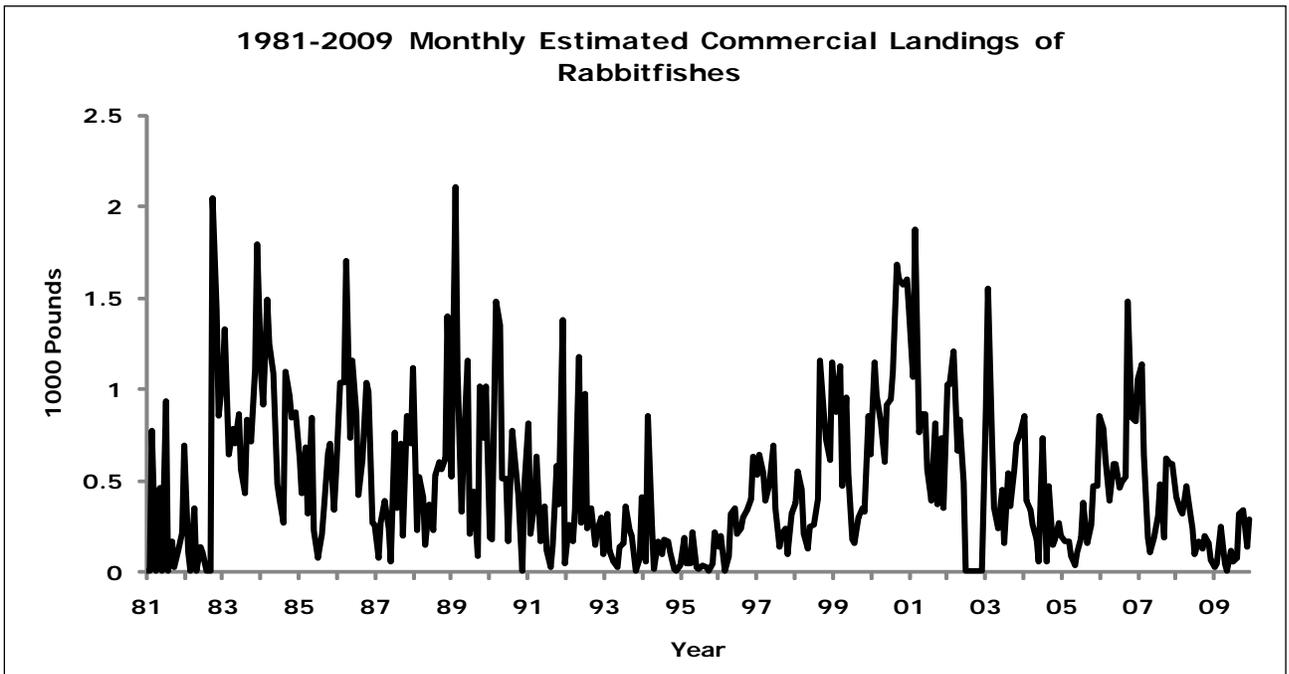


Figure B-4-10

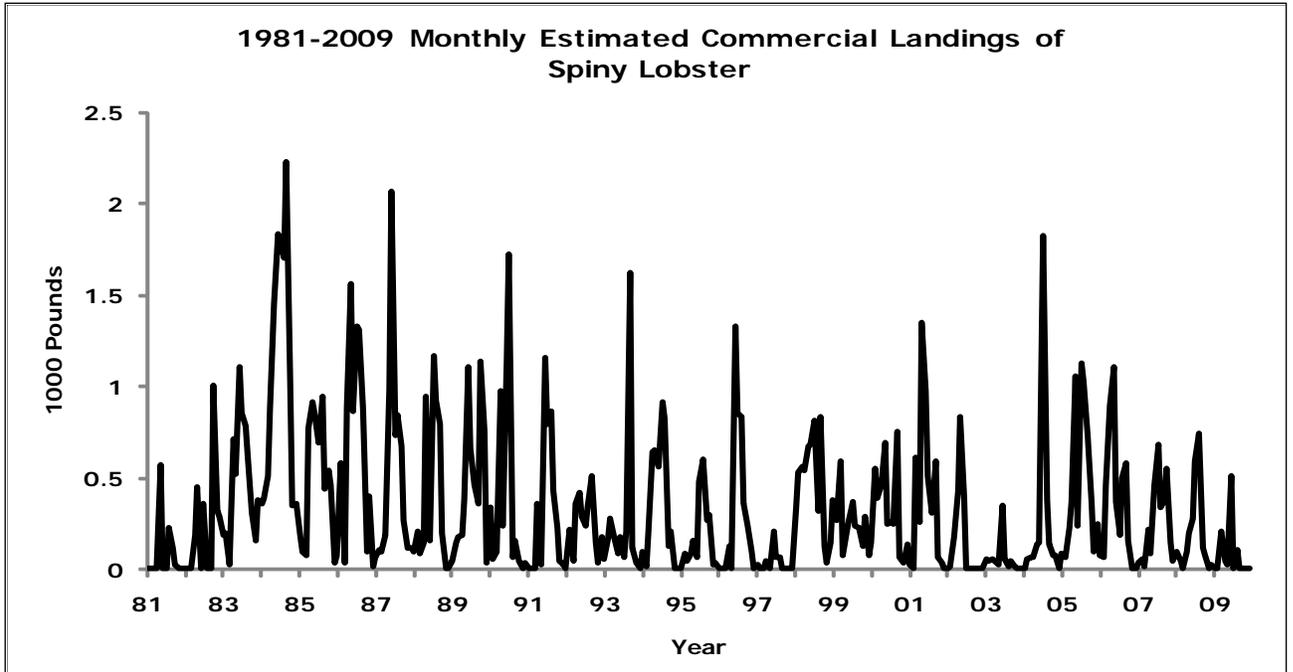


Figure B-4-11

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