

**COMMONWEALTH OF THE NORTHERN MARIANA ISLANDS  
2002 FISHERY STATISTICS**

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

June 2004

## CONTENTS

	Page
Introduction	III.1
Data Collecting System	III.2
Data Processing System	III.3
Data Reporting System	III.3
Tables and Figures	III.6

**LIST OF CNMI SUMMARY TABLES**

Table	Title	Page
III.1.1	CNMI 2002 Estimated Commercial Landings	III.6
III.1.2	CNMI January 2002 Estimated Commercial Landings	III.7
III.1.3	CNMI February 2002 Estimated Commercial Landings	III.8
III.1.4	CNMI March 2002 Estimated Commercial Landings	III.9
III.1.5	CNMI April 2002 Estimated Commercial Landings	III.10
III.1.6	CNMI May 2002 Estimated Commercial Landings	III.11
III.1.7	CNMI June 2002 Estimated Commercial Landings	III.12
III.1.8	CNMI July 2002 Estimated Commercial Landings	III.13
III.1.9	CNMI August 2002 Estimated Commercial Landings	III.14
III.1.10	CNMI September 2002 Estimated Commercial Landings	III.15
III.1.11	CNMI October 2002 Estimated Commercial Landings	III.16
III.1.12	CNMI November 2002 Estimated Commercial Landings	III.17
III.1.13	CNMI December 2002 Estimated Commercial Landings	III.18

## LIST OF CNMI FIGURES

Figure	Title	Page
III.1.1	CNMI 2002 Fisheries Categories: Monthly Estimated Commercial Landings of Pelagic, Bottom, Reef, and Other	III.19
III.1.2	CNMI 2002 Monthly Estimated Commercial Landings of Tunas, PMUS, and BMUS	III.19
III.1.3	CNMI 2002 Monthly Estimated Commercial Landings of Wahoo, Mahimahi, and Billfish	III.20
III.1.4	CNMI 2002 Monthly Estimated Commercial Landings of Skipjack, Yellowfin, and Other Tunas	III.20
III.1.5	CNMI 2002 Monthly Estimated Commercial Landings of Bigeye Scad, Emperors, and Onaga	III.21
III.2.1	CNMI 1981-2002 Average Monthly Estimated Commercial Landings of Tunas, PMUS, and BMUS	III.21
III.2.2	CNMI 1981-2002 Average Monthly Estimated Commercial Landings of Wahoo, Mahimahi, and Billfish	III.22
III.2.3	CNMI 1981-2002 Average Monthly Estimated Commercial Landings of Skipjack, Yellowfin, and Other Tunas	III.22
III.2.4	CNMI 1981-2002 Average Monthly Estimated Commercial Landings of Bigeye Scad, Emperors, and Onaga	III.23
III.2.5	CNMI 1981-2002 Average Monthly Estimated Commercial Landings of Parrotfish, Spiny Lobsters, and Rabbitfish	III.23
III.3.1	CNMI 1981-2002 Annual Trend of Fisheries Categories: Estimated Commercial Landings of Pelagic, Bottom, Reef, and Other	III.24
III.3.2	CNMI 1981-2002 Annual Trends of Estimated Total Commercial Landings	III.24
III.3.3	CNMI 1981-2002 Annual Trends: Estimated Commercial Landings of Tunas, PMUS, and BMUS	III.25
III.3.4	CNMI 1981-2002 Annual Trends: Estimated Commercial Landings of Wahoo, Mahimahi, and Billfish	III.25
III.3.5	CNMI 1981-2002 Annual Trends: Estimated Commercial Landings of Skipjack, Yellowfin, and Other Tunas	III.26
III.3.6	CNMI 1981-2002 Annual Trends: Estimated Commercial Landings of Bigeye Scad, Emperors, and Onaga	III.26
III.3.7	CNMI 1981-2002 Annual Trends: Estimated Commercial Landings of Parrotfish, Spiny Lobster, and Rabbitfish	III.27

**LIST OF CNMI FIGURES (cont.)**

Figure	Title	Page
III.4.1	CNMI 1981-2002 Monthly Estimated Commercial Landings of Wahoo	III.27
III.4.2	CNMI 1981-2002 Monthly Estimated Commercial Landings of Mahimahi	III.28
III.4.3	CNMI 1981-2002 Monthly Estimated Commercial Landings of Parrotfish	III.28
III.4.4	CNMI 1981-2002 Monthly Estimated Commercial Landings of Dogtooth Tuna	III.29
III.4.5	CNMI 1981-2002 Monthly Estimated Commercial Landings of Skipjack Tuna	III.29
III.4.6	CNMI 1981-2002 Monthly Estimated Commercial Landings of Yellowfin Tuna	III.30
III.4.7	CNMI 1981-2002 Monthly Estimated Commercial Landings of Emperors	III.30
III.4.8	CNMI 1981-2002 Monthly Estimated Commercial Landings of Bigeye Scad	III.31
III.4.9	CNMI 1981-2002 Monthly Estimated Commercial Landings of Onaga	III.31
III.4.10	CNMI 1981-2002 Monthly Estimated Commercial Landings of Spiny Lobster	III.32
III.4.11	CNMI 1981-2002 Monthly Estimated Commercial Landings of Rabbitfish	III.32

# COMMONWEALTH OF THE NORTHERN MARIANA ISLANDS 2002 FISHERY STATISTICS

## INTRODUCTION

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

*Main Islands:* Saipan, Rota, Tinian

*Population:* about 80,000 (*The World Factbook*, 2003)

*Economy:* tourism, agriculture, garment production

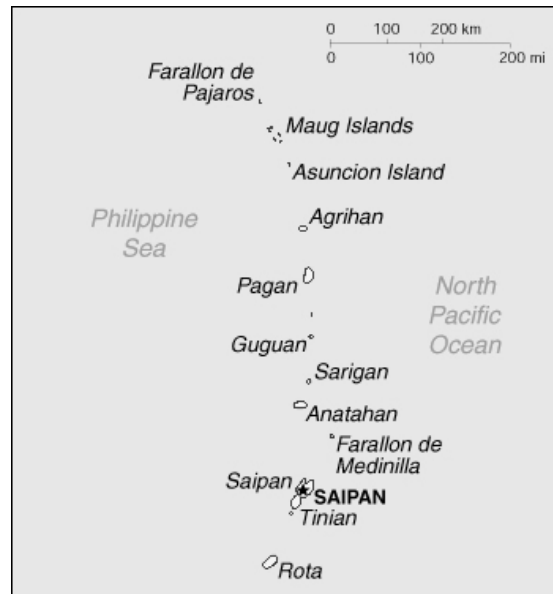
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The chief domestic commercial fishery of the CNMI is a small boat, one-day troll fishery, and most of the boats are 12- to 24-foot outboard-powered, runabout-type vessels. However, a few larger boats are used mainly for bottomfish fishing around the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

During 2002, 55 vessels were registered as full-time commercial fishing boats, and 41 were part-time. Also, 26 vessels were registered as “charter” for their primary use, and 312 boats were nonfishing or recreational.

Trolling is by far the most common fishing method, but bottomfishing and reef fishing are also popular. Reef fish 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 bottomfish around the islands north of Saipan. While the vast majority of the domestic catch is consumed locally, there have been some 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.



CNMI

source: <<http://www.cia.gov/cia/publications/factbook/cq.html>>;  
*The World Factbook*

## DATA COLLECTING SYSTEM

The Division of Fish and Wildlife (DFW) has been collecting fishery statistics on the commercial fishing fleet of Saipan since the mid-1970s. It also began collecting information on vessels transshipping tuna out of Tinian in 1983.

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 fishermen; 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, is fairly easy to get complete coverage of the commercial fisheries, and DFW can provide feedback to dealers and fishermen to ensure data accuracy and continued cooperation.

There are some disadvantages: dependency on non-DFW personnel to identify the catch and record the data, restrictions on the types of data that can be collected, required education and cooperation of all fish purchasers, and 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 over 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 beginning with this volume, 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 fishermen includes the following:

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

### III.3

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 SYSTEM**

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 "Purchase" database. After the records are entered, reports are generated to help verify that all data were entered correctly. On a quarterly basis, copies of the database are sent to the Honolulu Laboratory, 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 SYSTEM**

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.

The following species, species groups, and abbreviations are used in the tables and graphs of CNMI's data:



### III.4

*Note: Many of the species included in this report have been re-categorized over the years. For example, the Magnuson Fishery Conservation and Management Act of 1976 was amended in 1992 to include tunas in the PMUS category. However, this FSWP volume will maintain the original species categorizations from previous volumes for comparative purposes. As such, tunas are kept in a separate category.*

#### I. Pelagic Management Unit Species (PMUS)

- Mahimahi (dolphin)
- Marlin
- Shortbill Spearfish
- Sailfish
- Wahoo
- Sharks

#### II. Bottomfish Management Unit Species (BMUS)

- Jacks (unclassified, but excluding bigeye scad)
- Amberjack
- Bottomfish (unclassified)
- Ehu (red snapper)
- Gindai (flower snapper)
- Grouper (unclassified)
- Kalekale (pink snapper)
- Lehi (silverjaw snapper)
- Onaga (red or longtail snapper)
- Opakapaka (pink snapper)
- Uku (gray snapper)
- Emperorfish

#### III. Billfish

- Marlin (probably all blue marlin but could also include the rarely landed striped and black marlins)
- Shortbill Spearfish
- Sailfish

#### IV. Tunas

- Tunas (unclassified)
- Skipjack Tuna
- Yellowfin Tuna

### III.5

#### IV. Tunas (cont.)

Dogtooth Tuna

#### V. Other Tuna

The above tunas excluding skipjack and yellowfin tunas

#### VI. Fisheries Categories

##### A. Pelagics

All PMUS and tuna species plus the following:

Troll Fish (unclassified)

Barracuda

Rainbow Runner

##### B. Bottomfish

Same as BMUS

##### C. Reef Fish

Reef Fish (unclassified)

Giant Wrasse

Rabbitfish (hitting, hitting feda, menahac, and sesjun)

Rudderfish

Squirrelfish

Parrotfish

Snapper

Surgeonfish

Unicornfish

Goatfish

##### D. Other

Miscellaneous

Mullet

Milkfish

Crabs (unclassified)

Lobster

Octopus

Turtle

Bigeye Scad

Eels

Invertebrates (unclassified)

Coconut Crab

Shrimp

Squid

Seaweeds

Imported

## III.6

Table III.1.1

## CNMI 2002 Estimated Commercial Landings

Species	Pounds	Value	Price/Lb.
Bigeye Scad	21,158	\$52,957	\$2.50
Jacks (Misc.)	4,584	\$10,066	\$2.20
Mullet	95	\$237	\$2.50
Giant Trevally	48	\$89	\$1.85
Brassy Trevally	52	\$138	\$2.66
Bottom Fish	5,718	\$15,524	\$2.72
Sickle Pomfret	344	\$676	\$1.96
Ehu (Red Snapper)	263	\$798	\$3.04
Gindai (Flower Snap)	3,157	\$9,630	\$3.05
Grouper (Misc.)	6,149	\$13,594	\$2.21
Kalikali (Yellowtail)	410	\$1,214	\$2.96
Onaga (Red Snapper)	12,655	\$42,876	\$3.39
Opakapaka (Pink Snp)	3,932	\$12,964	\$3.30
Jobfish (Uku)	389	\$908	\$2.33
Silvermouth (Deep Lehi)	3,479	\$10,102	\$2.90
Amberjack	184	\$491	\$2.66
Blueline Snapper	352	\$1,101	\$3.13
Red Snapper	29	\$73	\$2.50
Reef Fish	136,435	\$342,203	\$2.51
Wrasse	295	\$872	\$2.95
Rabbitfish	9,553	\$31,232	\$3.27
Emperor (Mafute/misc.)	5,364	\$15,577	\$2.90
Squirrelfish	1,704	\$2,878	\$1.69
Parrotfish (Misc.)	5,052	\$15,369	\$3.04
Surgeonfish (Misc.)	1,365	\$3,961	\$2.90
Orangespine Unicornfish	1,041	\$2,999	\$2.88
Unicornfish (Misc.)	1,530	\$4,477	\$2.93
Goatfish (Misc.)	1,745	\$4,406	\$2.52
Triggerfish (Misc.)	54	\$81	\$1.50
Troll Fish (Misc.)	316	\$724	\$2.29
Barracuda	59	\$162	\$2.75
Mahimahi	18,042	\$34,253	\$1.90
Blue Marlin	1,261	\$2,249	\$1.78
Sailfish	18	\$35	\$2.00
Rainbow Runner	2,093	\$3,619	\$1.73
Wahoo	8,212	\$16,255	\$1.98
Skipjack Tuna	179,966	\$357,233	\$1.99
Dogtooth Tuna	13,072	\$22,368	\$1.71
Yellowfin Tuna	30,017	\$62,608	\$2.09
Saba (Kawakawa)	3,582	\$6,120	\$1.71
Invertebrates	48	\$238	\$5.00
Spiny Lobster	4,350	\$24,837	\$5.71
Octopus	1,510	\$3,322	\$2.20
Shrimp (Saltwater)	11	\$79	\$7.00
Shrimp (Freshwater)	15	\$30	\$2.00
TOTAL	489,707	\$1,131,625	\$2.31

## III.7

Table III.1.2

## CNMI January 2002 Estimated Commercial Landings

Species	Pounds	Value	Price/Lb.
Bigeye Scad	2,791	\$6,958	\$2.49
Jacks (Misc.)	617	\$1,462	\$2.37
Bottom Fish	662	\$1,711	\$2.58
Gindai (Flower Snap)	654	\$1,770	\$2.71
Grouper (Misc.)	1,779	\$3,759	\$2.11
Kalikali (Yellowtail)	42	\$105	\$2.50
Onaga (Red Snapper)	4,964	\$16,618	\$3.35
Opakapaka (Pink Snp)	1,128	\$3,374	\$2.99
Jobfish (Uku)	60	\$120	\$2.00
Silvermouth (Deep Lehi)	1,397	\$3,622	\$2.59
Blueline Snapper	125	\$438	\$3.50
Reef Fish	7,763	\$19,618	\$2.53
Rabbitfish	1,029	\$3,322	\$3.23
Emperor (Mafute/misc.)	851	\$2,654	\$3.12
Parrotfish (Misc.)	133	\$276	\$2.08
Surgeonfish (Misc.)	46	\$116	\$2.50
Orangespine Unicornfish	50	\$88	\$1.75
Unicornfish (Misc.)	35	\$86	\$2.50
Goatfish (Misc.)	4	\$13	\$3.25
Mahimahi	4,465	\$8,679	\$1.94
Rainbow Runner	89	\$179	\$2.00
Wahoo	997	\$2,287	\$2.29
Skipjack Tuna	12,592	\$27,923	\$2.22
Dogtooth Tuna	1,788	\$3,045	\$1.70
Yellowfin Tuna	5,033	\$10,784	\$2.14
Saba (Kawakawa)	724	\$1,449	\$2.00
Spiny Lobster	2	\$6	\$4.00
Octopus	104	\$253	\$2.43
Shrimp (Saltwater)	11	\$79	\$7.00
<b>TOTAL</b>	<b>49,933</b>	<b>\$120,791</b>	<b>\$2.42</b>

## III.8

Table III.1.3

## CNMI February 2002 Estimated Commercial Landings

Species	Pounds	Value	Price/Lb.
Bigeye Scad	2,575	\$7,008	\$2.72
Jacks (Misc.)	611	\$1,311	\$2.15
Bottom Fish	506	\$1,300	\$2.57
Ehu (Red Snapper)	16	\$49	\$3.00
Gindai (Flower Snap)	750	\$2,280	\$3.04
Grouper (Misc.)	1,450	\$2,813	\$1.94
Onaga (Red Snapper)	2,306	\$7,557	\$3.28
Opakapaka (Pink Snp)	217	\$761	\$3.51
Jobfish (Uku)	114	\$263	\$2.31
Silvermouth (Deep Lehi)	885	\$2,550	\$2.88
Amberjack	39	\$116	\$3.00
Reef Fish	8,112	\$19,270	\$2.38
Rabbitfish	1,022	\$3,251	\$3.18
Emperor (Mafute/misc.)	323	\$1,048	\$3.24
Squirrelfish	13	\$39	\$3.13
Parrotfish (Misc.)	476	\$1,488	\$3.13
Surgeonfish (Misc.)	135	\$423	\$3.13
Orangespine Unicornfish	64	\$193	\$3.03
Unicornfish (Misc.)	189	\$525	\$2.78
Goatfish (Misc.)	46	\$141	\$3.04
Troll Fish (Misc.)	105	\$196	\$1.87
Mahimahi	5,738	\$10,959	\$1.91
Rainbow Runner	168	\$397	\$2.36
Wahoo	1,094	\$2,501	\$2.28
Skipjack Tuna	15,484	\$33,405	\$2.16
Dogtooth Tuna	2,389	\$3,989	\$1.67
Yellowfin Tuna	2,298	\$4,760	\$2.07
Saba (Kawakawa)	356	\$713	\$2.00
Spiny Lobster	18	\$82	\$4.70
Octopus	147	\$368	\$2.50
<b>TOTAL</b>	<b>47,643</b>	<b>\$109,755</b>	<b>\$2.30</b>

## III.9

Table III.1.4

## CNMI March 2002 Estimated Commercial Landings

Species	Pounds	Value	Price/Lb.
Bigeye Scad	2,532	\$6,987	\$2.76
Jacks (Misc.)	1,262	\$2,643	\$2.09
Bottom Fish	471	\$1,477	\$3.14
Sickle Pomfret	19	\$38	\$2.00
Ehu (Red Snapper)	18	\$66	\$3.75
Gindai (Flower Snap)	370	\$1,214	\$3.28
Grouper (Misc.)	362	\$724	\$2.00
Onaga (Red Snapper)	1,410	\$5,144	\$3.65
Opakapaka (Pink Snp)	334	\$1,218	\$3.64
Jobfish (Uku)	67	\$168	\$2.50
Silvermouth (Deep Lehi)	378	\$1,222	\$3.23
Reef Fish	11,787	\$30,303	\$2.57
Wrasse	96	\$275	\$2.86
Rabbitfish	1,208	\$4,030	\$3.34
Emperor (Mafute/misc.)	290	\$942	\$3.25
Squirrelfish	154	\$500	\$3.25
Parrotfish (Misc.)	920	\$3,236	\$3.52
Surgeonfish (Misc.)	359	\$1,166	\$3.25
Orangespine Unicornfish	315	\$1,024	\$3.25
Unicornfish (Misc.)	339	\$1,101	\$3.25
Goatfish (Misc.)	147	\$477	\$3.25
Barracuda	59	\$162	\$2.75
Mahimahi	4,276	\$8,008	\$1.87
Rainbow Runner	121	\$230	\$1.91
Wahoo	2,961	\$5,391	\$1.82
Skipjack Tuna	15,251	\$30,082	\$1.97
Dogtooth Tuna	3,542	\$6,322	\$1.78
Yellowfin Tuna	2,323	\$4,759	\$2.05
Saba (Kawakawa)	636	\$1,234	\$1.94
Spiny Lobster	173	\$971	\$5.63
Octopus	37	\$91	\$2.50
<b>TOTAL</b>	<b>52,215</b>	<b>\$121,204</b>	<b>\$2.32</b>

## III.10

Table III.1.5

CNMI April 2002 Estimated Commercial Landings

Species	Pounds	Value	Price/Lb.
Bigeye Scad	2,958	\$6,792	\$2.30
Jacks (Misc.)	490	\$1,145	\$2.34
Mullet	62	\$155	\$2.50
Brassy Trevally	17	\$51	\$3.00
Bottom Fish	431	\$1,313	\$3.04
Sickle Pomfret	16	\$33	\$2.00
Gindai (Flower Snap)	98	\$281	\$2.88
Grouper (Misc.)	1,185	\$2,945	\$2.48
Kalikali (Yellowtail)	18	\$44	\$2.50
Onaga (Red Snapper)	1,716	\$5,634	\$3.28
Opakapaka (Pink Snp)	784	\$2,682	\$3.42
Jobfish (Uku)	19	\$56	\$3.00
Silvermouth (Deep Lehi)	96	\$330	\$3.45
Amberjack	109	\$284	\$2.59
Reef Fish	10,093	\$25,573	\$2.53
Wrasse	111	\$334	\$3.00
Rabbitfish	709	\$2,318	\$3.27
Emperor (Mafute/misc.)	992	\$2,988	\$3.01
Squirrelfish	188	\$467	\$2.49
Parrotfish (Misc.)	1,049	\$3,515	\$3.35
Surgeonfish (Misc.)	230	\$748	\$3.25
Orangespine Unicornfish	216	\$650	\$3.01
Unicornfish (Misc.)	425	\$1,253	\$2.95
Goatfish (Misc.)	776	\$1,680	\$2.17
Mahimahi	1,533	\$2,786	\$1.82
Wahoo	1,247	\$2,620	\$2.10
Skipjack Tuna	17,068	\$32,857	\$1.93
Dogtooth Tuna	1,684	\$3,134	\$1.86
Yellowfin Tuna	4,024	\$8,204	\$2.04
Spiny Lobster	670	\$4,009	\$5.98
Octopus	36	\$86	\$2.38
<b>TOTAL</b>	<b>49,050</b>	<b>\$114,966</b>	<b>\$2.34</b>

## III.11

Table III.1.6

## CNMI May 2002 Estimated Commercial Landings

Species	Pounds	Value	Price/Lb.
Bigeye Scad	1,123	\$2,634	\$2.34
Jacks (Misc.)	148	\$394	\$2.67
Bottom Fish	641	\$1,603	\$2.50
Ehu (Red Snapper)	36	\$117	\$3.23
Gindai (Flower Snap)	90	\$270	\$3.00
Grouper (Misc.)	140	\$377	\$2.69
Kalikali (Yellowtail)	104	\$240	\$2.31
Onaga (Red Snapper)	542	\$2,010	\$3.71
Opakapaka (Pink Snp)	518	\$1,770	\$3.42
Jobfish (Uku)	31	\$63	\$2.00
Silvermouth (Deep Lehi)	194	\$614	\$3.17
Amberjack	18	\$35	\$2.00
Reef Fish	13,706	\$34,532	\$2.52
Wrasse	88	\$263	\$3.00
Rabbitfish	881	\$2,934	\$3.33
Emperor (Mafute/misc.)	1,708	\$4,832	\$2.83
Squirrelfish	575	\$797	\$1.39
Parrotfish (Misc.)	1,093	\$3,571	\$3.27
Surgeonfish (Misc.)	188	\$609	\$3.25
Orangespine Unicornfish	161	\$524	\$3.25
Unicornfish (Misc.)	334	\$1,023	\$3.06
Goatfish (Misc.)	91	\$297	\$3.25
Mahimahi	332	\$633	\$1.91
Blue Marlin	418	\$740	\$1.77
Rainbow Runner	120	\$244	\$2.04
Wahoo	197	\$338	\$1.72
Skipjack Tuna	16,400	\$26,723	\$1.63
Dogtooth Tuna	1,089	\$1,942	\$1.78
Yellowfin Tuna	3,222	\$7,687	\$2.39
Saba (Kawakawa)	50	\$100	\$2.00
Spiny Lobster	861	\$4,736	\$5.50
Octopus	41	\$102	\$2.50
<b>TOTAL</b>	<b>45,138</b>	<b>\$102,754</b>	<b>\$2.28</b>



## III.12

Table III.1.7

## CNMI June 2002 Estimated Commercial Landings

Species	Pounds	Value	Price/Lb.
Bigeye Scad	1,734	\$4,210	\$2.43
Jacks (Misc.)	215	\$449	\$2.09
Bottom Fish	441	\$1,096	\$2.48
Sickle Pomfret	15	\$45	\$3.00
Ehu (Red Snapper)	38	\$103	\$2.75
Gindai (Flower Snap)	159	\$429	\$2.70
Grouper (Misc.)	347	\$694	\$2.00
Kalikali (Yellowtail)	6	\$9	\$1.50
Onaga (Red Snapper)	198	\$700	\$3.53
Opakapaka (Pink Snp)	203	\$618	\$3.04
Silvermouth (Deep Lehi)	15	\$45	\$3.00
Reef Fish	14,012	\$34,948	\$2.49
Rabbitfish	613	\$1,869	\$3.05
Emperor (Mafute/misc.)	68	\$200	\$2.96
Squirrelfish	79	\$159	\$2.00
Parrotfish (Misc.)	525	\$1,315	\$2.50
Orangespine Unicornfish	88	\$175	\$2.00
Unicornfish (Misc.)	15	\$43	\$2.88
Mahimahi	180	\$313	\$1.74
Blue Marlin	109	\$209	\$1.92
Sailfish	18	\$35	\$2.00
Rainbow Runner	228	\$457	\$2.00
Wahoo	17	\$34	\$2.00
Skipjack Tuna	14,168	\$26,553	\$1.87
Dogtooth Tuna	958	\$1,121	\$1.17
Yellowfin Tuna	2,829	\$5,833	\$2.06
Saba (Kawakawa)	88	\$175	\$2.00
Spiny Lobster	965	\$5,595	\$5.80
Octopus	174	\$367	\$2.11
<b>TOTAL</b>	<b>38,504</b>	<b>\$87,799</b>	<b>\$2.28</b>

## III.13

Table III.1.8

## CNMI July 2002 Estimated Commercial Landings

Species	Pounds	Value	Price/Lb.
Bigeye Scad	618	\$1,543	\$2.50
Jacks (Misc.)	119	\$179	\$1.50
Bottom Fish	321	\$961	\$2.99
Gindai (Flower Snap)	59	\$162	\$2.75
Onaga (Red Snapper)	398	\$1,393	\$3.50
Opakapaka (Pink Snp)	125	\$438	\$3.50
Jobfish (Uku)	19	\$58	\$3.00
Silvermouth (Deep Lehi)	190	\$650	\$3.41
Amberjack	19	\$56	\$3.00
Blueline Snapper	119	\$328	\$2.75
Reef Fish	9,530	\$24,349	\$2.56
Rabbitfish	347	\$1,131	\$3.25
Emperor (Mafute/misc.)	61	\$102	\$1.68
Squirrelfish	93	\$181	\$1.94
Parrotfish (Misc.)	155	\$350	\$2.26
Surgeonfish (Misc.)	334	\$736	\$2.20
Orangespine Unicornfish	46	\$106	\$2.29
Unicornfish (Misc.)	23	\$60	\$2.57
Goatfish (Misc.)	35	\$88	\$2.51
Mahimahi	130	\$260	\$2.00
Blue Marlin	200	\$300	\$1.50
Rainbow Runner	341	\$554	\$1.63
Skipjack Tuna	14,394	\$26,992	\$1.88
Dogtooth Tuna	407	\$561	\$1.38
Yellowfin Tuna	2,580	\$4,328	\$1.68
Invertebrates	48	\$238	\$5.00
Spiny Lobster	224	\$1,352	\$6.04
Octopus	94	\$215	\$2.29
<b>TOTAL</b>	<b>31,031</b>	<b>\$67,673</b>	<b>\$2.18</b>

## III.14

Table III.1.9

## CNMI August 2002 Estimated Commercial Landings

Species	Pounds	Value	Price/Lb.
Bigeye Scad	435	\$995	\$2.29
Jacks (Misc.)	89	\$199	\$2.23
Bottom Fish	314	\$779	\$2.48
Sickle Pomfret	182	\$364	\$2.00
Gindai (Flower Snap)	63	\$219	\$3.50
Onaga (Red Snapper)	240	\$838	\$3.50
Opakapaka (Pink Snp)	336	\$1,177	\$3.50
Jobfish (Uku)	35	\$88	\$2.50
Silvermouth (Deep Lehi)	45	\$151	\$3.35
Red Snapper	29	\$73	\$2.50
Reef Fish	13,935	\$32,900	\$2.36
Rabbitfish	670	\$2,126	\$3.17
Emperor (Mafute/misc.)	214	\$567	\$2.65
Squirrelfish	298	\$402	\$1.35
Parrotfish (Misc.)	163	\$293	\$1.80
Unicornfish (Misc.)	87	\$197	\$2.27
Goatfish (Misc.)	90	\$180	\$1.99
Mahimahi	188	\$375	\$2.00
Blue Marlin	260	\$425	\$1.64
Rainbow Runner	212	\$377	\$1.78
Wahoo	141	\$305	\$2.16
Skipjack Tuna	14,967	\$28,381	\$1.90
Dogtooth Tuna	258	\$432	\$1.68
Yellowfin Tuna	762	\$1,544	\$2.02
Saba (Kawakawa)	100	\$184	\$1.84
Spiny Lobster	284	\$1,578	\$5.56
Octopus	188	\$397	\$2.11
<b>TOTAL</b>	<b>34,584</b>	<b>\$75,544</b>	<b>\$2.18</b>

## III.15

Table III.1.10

## CNMI September 2002 Estimated Commercial Landings

Species	Pounds	Value	Price/Lb.
Bigeye Scad	2,146	\$5,704	\$2.66
Jacks (Misc.)	192	\$480	\$2.49
Brassy Trevally	35	\$88	\$2.50
Bottom Fish	1,013	\$3,005	\$2.97
Sickle Pomfret	44	\$88	\$2.00
Ehu (Red Snapper)	90	\$268	\$2.97
Gindai (Flower Snap)	194	\$650	\$3.35
Grouper (Misc.)	179	\$492	\$2.75
Kalikali (Yellowtail)	10	\$25	\$2.50
Onaga (Red Snapper)	271	\$950	\$3.50
Jobfish (Uku)	16	\$33	\$2.00
Silvermouth (Deep Lehi)	68	\$203	\$3.00
Reef Fish	14,007	\$35,023	\$2.50
Rabbitfish	436	\$1,433	\$3.29
Emperor (Mafute/misc.)	343	\$853	\$2.49
Parrotfish (Misc.)	51	\$62	\$1.22
Surgeonfish (Misc.)	50	\$113	\$2.25
Orangespine Unicornfish	70	\$165	\$2.35
Unicornfish (Misc.)	84	\$189	\$2.26
Goatfish (Misc.)	250	\$713	\$2.85
Mahimahi	178	\$355	\$2.00
Rainbow Runner	237	\$424	\$1.79
Wahoo	50	\$100	\$2.00
Skipjack Tuna	13,653	\$27,191	\$1.99
Dogtooth Tuna	18	\$35	\$2.00
Yellowfin Tuna	1,006	\$2,032	\$2.02
Saba (Kawakawa)	1,153	\$1,448	\$1.26
Spiny Lobster	448	\$2,313	\$5.17
Octopus	238	\$500	\$2.10
<b>TOTAL</b>	<b>36,527</b>	<b>\$84,932</b>	<b>\$2.33</b>

## III.16

Table III.1.11

## CNMI October 2002 Estimated Commercial Landings

Species	Pounds	Value	Price/Lb.
Bigeye Scad	2,792	\$6,448	\$2.31
Jacks (Misc.)	20	\$42	\$2.13
Mullet	15	\$38	\$2.50
Bottom Fish	366	\$924	\$2.53
Sickle Pomfret	56	\$84	\$1.51
Ehu (Red Snapper)	65	\$195	\$3.00
Gindai (Flower Snap)	185	\$611	\$3.30
Grouper (Misc.)	91	\$205	\$2.25
Kalikali (Yellowtail)	13	\$31	\$2.50
Onaga (Red Snapper)	84	\$312	\$3.73
Opakapaka (Pink Snp)	63	\$156	\$2.50
Blueline Snapper	69	\$239	\$3.45
Reef Fish	11,504	\$28,626	\$2.49
Rabbitfish	735	\$2,388	\$3.25
Emperor (Mafute/misc.)	234	\$694	\$2.96
Squirrelfish	256	\$292	\$1.14
Parrotfish (Misc.)	474	\$1,249	\$2.63
Surgeonfish (Misc.)	6	\$9	\$1.50
Orangespine Unicornfish	26	\$64	\$2.50
Goatfish (Misc.)	186	\$541	\$2.90
Mahimahi	262	\$518	\$1.98
Blue Marlin	225	\$450	\$2.00
Rainbow Runner	25	\$50	\$2.00
Wahoo	86	\$142	\$1.64
Skipjack Tuna	15,820	\$32,427	\$2.05
Dogtooth Tuna	363	\$634	\$1.75
Yellowfin Tuna	457	\$1,089	\$2.38
Saba (Kawakawa)	93	\$69	\$0.74
Spiny Lobster	590	\$3,503	\$5.94
Octopus	85	\$180	\$2.13
<b>TOTAL</b>	<b>35,243</b>	<b>\$82,210</b>	<b>\$2.33</b>

## III.17

Table III.1.12

CNMI November 2002 Estimated Commercial Landings

Species	Pounds	Value	Price/Lb.
Bigeye Scad	938	\$2,204	\$2.35
Jacks (Misc.)	291	\$576	\$1.98
Bottom Fish	488	\$1,194	\$2.45
Sickle Pomfret	13	\$26	\$2.00
Gindai (Flower Snap)	30	\$75	\$2.50
Grouper (Misc.)	616	\$1,587	\$2.57
Onaga (Red Snapper)	181	\$621	\$3.43
Opakapaka (Pink Snp)	217	\$753	\$3.47
Blueline Snapper	38	\$96	\$2.50
Reef Fish	10,260	\$26,493	\$2.58
Rabbitfish	1,129	\$3,815	\$3.38
Emperor (Mafute/misc.)	270	\$669	\$2.48
Squirrelfish	49	\$41	\$0.84
Parrotfish (Misc.)	14	\$14	\$1.00
Orangespine Unicornfish	5	\$10	\$2.00
Triggerfish (Misc.)	54	\$81	\$1.50
Troll Fish (Misc.)	211	\$528	\$2.50
Mahimahi	422	\$742	\$1.76
Blue Marlin	50	\$125	\$2.50
Rainbow Runner	278	\$311	\$1.12
Wahoo	1,081	\$2,060	\$1.91
Skipjack Tuna	14,544	\$31,267	\$2.15
Dogtooth Tuna	156	\$273	\$1.75
Yellowfin Tuna	1,425	\$2,687	\$1.89
Saba (Kawakawa)	283	\$549	\$1.94
Spiny Lobster	60	\$350	\$5.83
Octopus	144	\$296	\$2.06
<b>TOTAL</b>	<b>33,247</b>	<b>\$77,442</b>	<b>\$2.33</b>

## III.18

Table III.1.13

CNMI December 2002 Estimated Commercial Landings

Species	Pounds	Value	Price/Lb.
Bigeye Scad	515	\$1,475	\$2.86
Jacks (Misc.)	530	\$1,187	\$2.24
Mullet	18	\$44	\$2.50
Giant Trevally	48	\$89	\$1.85
Bottom Fish	64	\$159	\$2.50
Gindai (Flower Snap)	506	\$1,669	\$3.30
Kalikali (Yellowtail)	218	\$760	\$3.48
Onaga (Red Snapper)	346	\$1,097	\$3.17
Opakapaka (Pink Snp)	7	\$17	\$2.50
Jobfish (Uku)	28	\$60	\$2.15
Silvermouth (Deep Lehi)	212	\$716	\$3.38
Reef Fish	11,726	\$30,567	\$2.61
Rabbitfish	774	\$2,617	\$3.38
Emperor (Mafute/misc.)	12	\$30	\$2.50
Surgeonfish (Misc.)	17	\$42	\$2.50
Goatfish (Misc.)	119	\$276	\$2.33
Mahimahi	339	\$624	\$1.84
Rainbow Runner	275	\$396	\$1.44
Wahoo	340	\$479	\$1.41
Skipjack Tuna	15,625	\$33,434	\$2.14
Dogtooth Tuna	421	\$878	\$2.09
Yellowfin Tuna	4,058	\$8,901	\$2.19
Saba (Kawakawa)	100	\$200	\$2.00
Spiny Lobster	58	\$343	\$5.96
Octopus	223	\$466	\$2.09
Shrimp (Freshwater)	15	\$30	\$2.00
<b>TOTAL</b>	<b>36,593</b>	<b>\$86,555</b>	<b>\$2.37</b>

Figure III.1.1

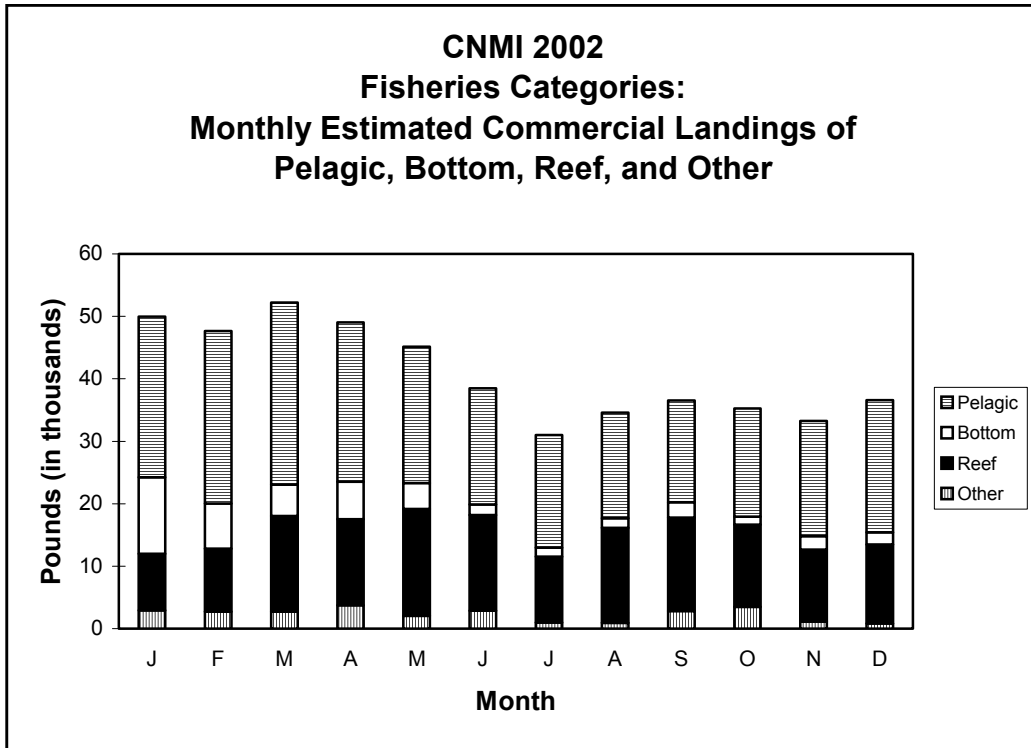


Figure III.1.2

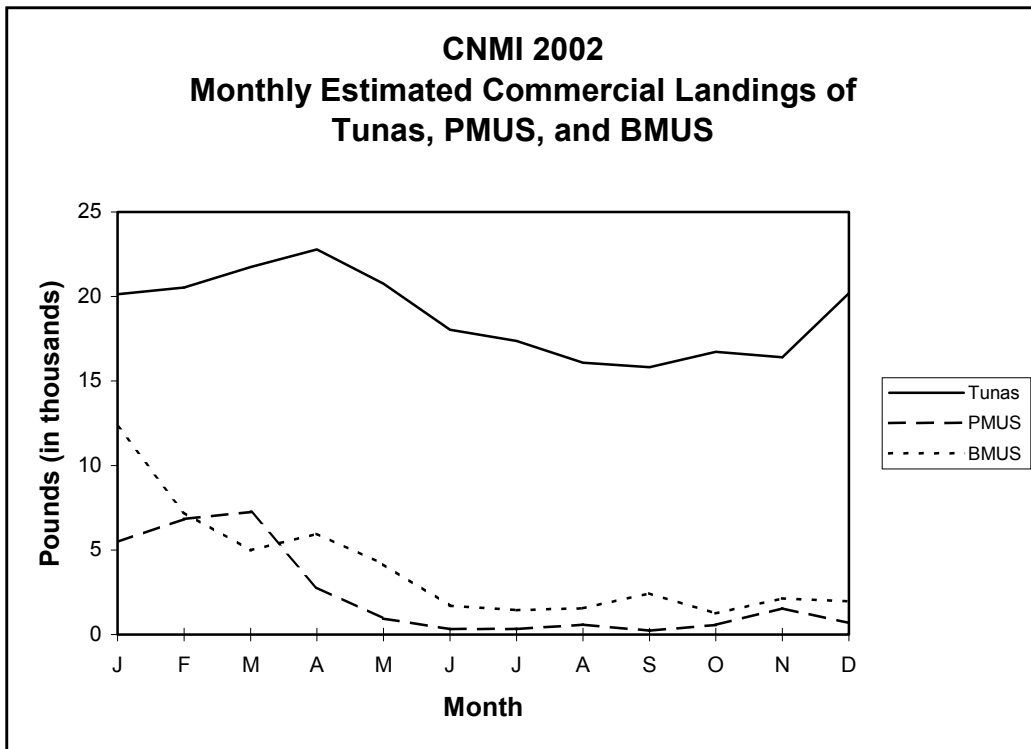




Figure III.1.3

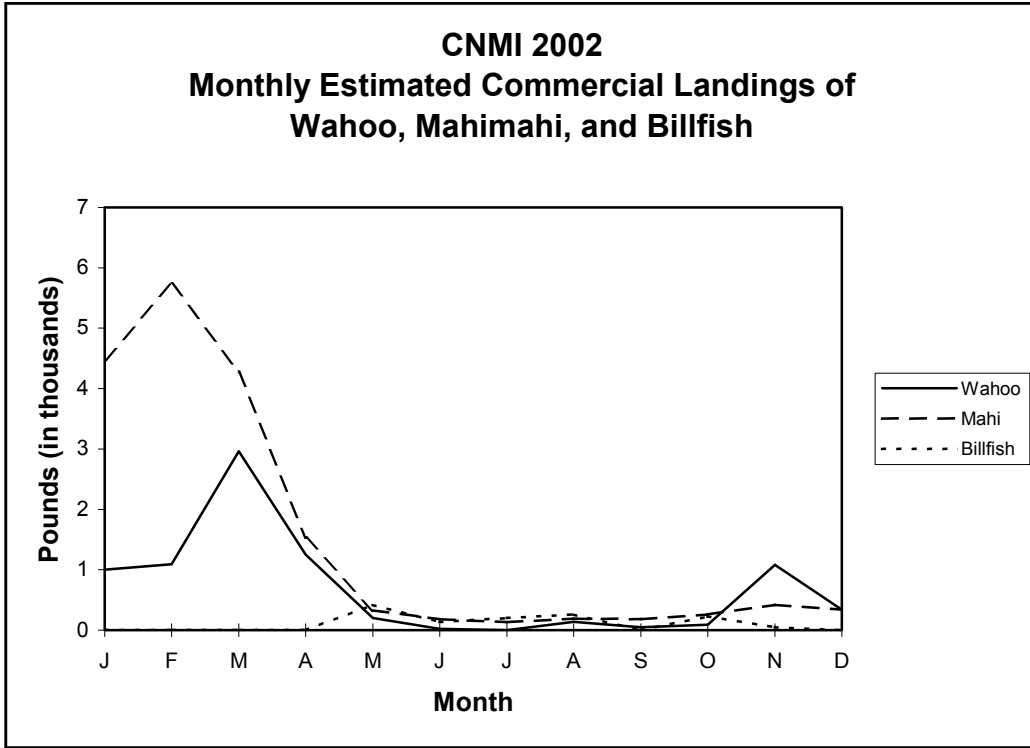


Figure III.1.4

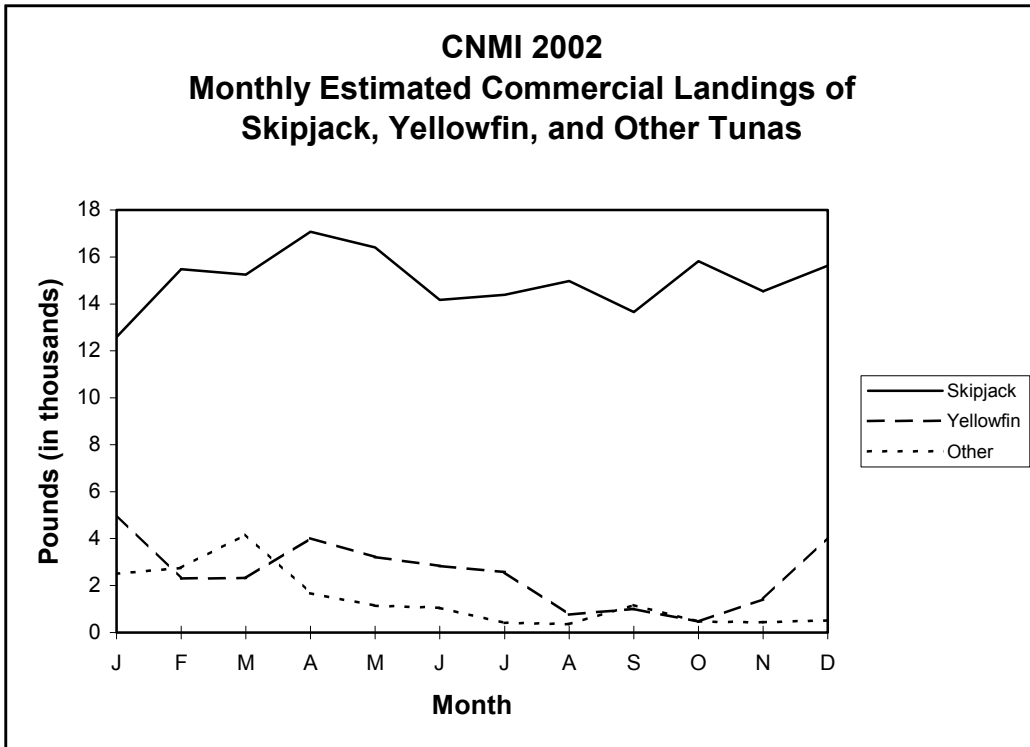


Figure III.1.5

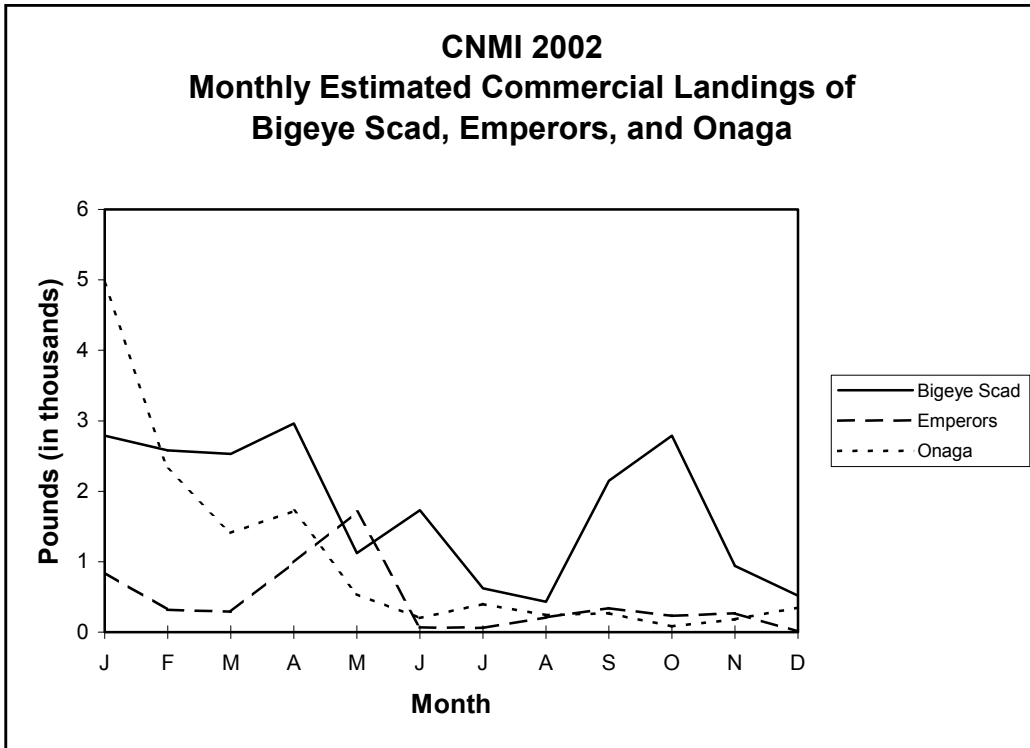


Figure III.2.1

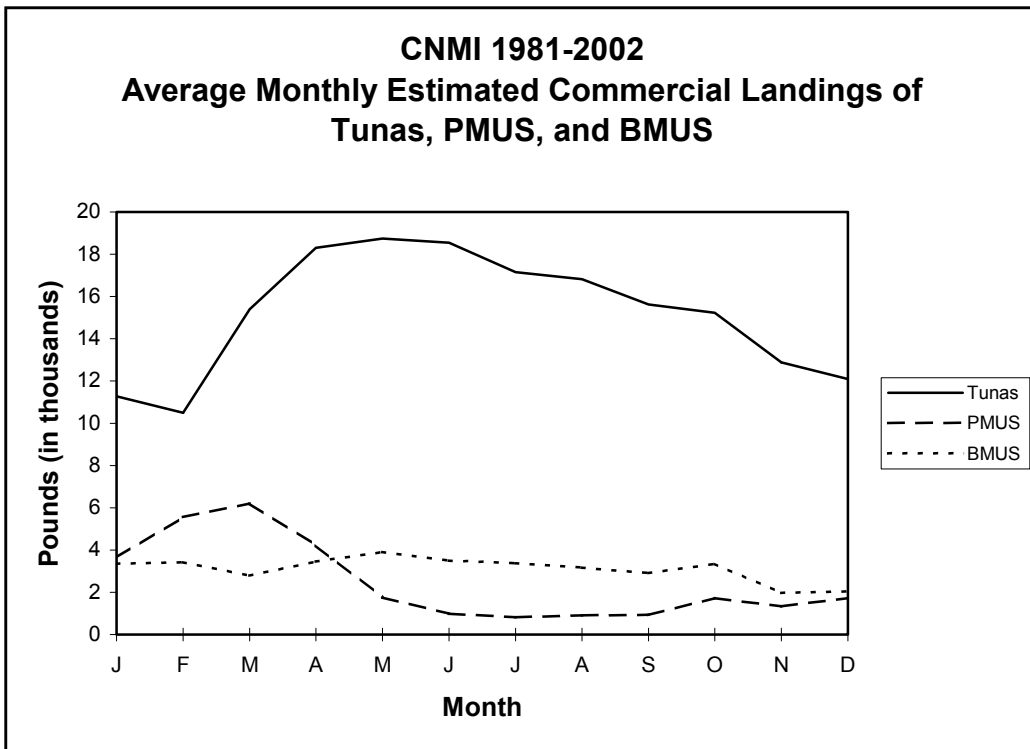


Figure III.2.2

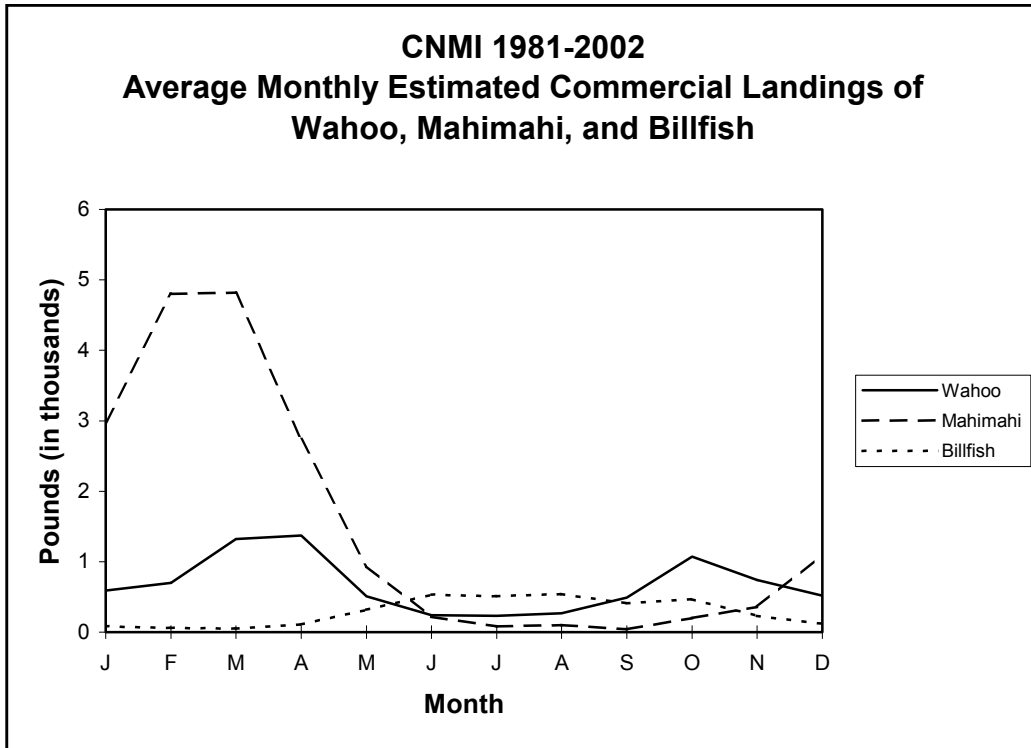


Figure III.2.3

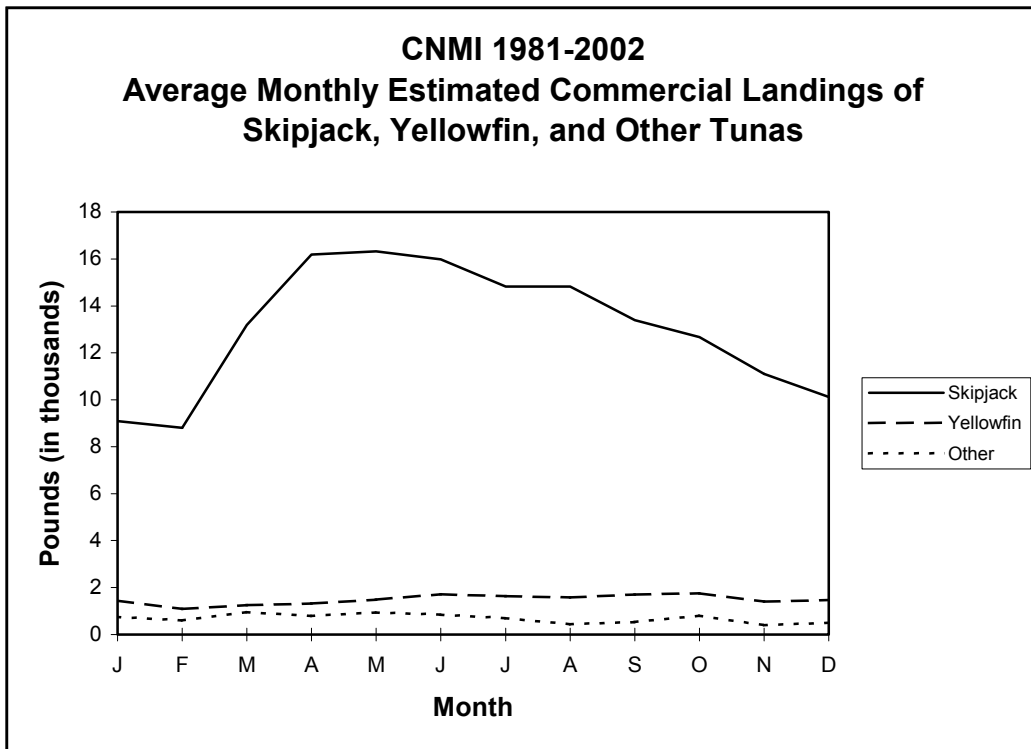


Figure III.2.4

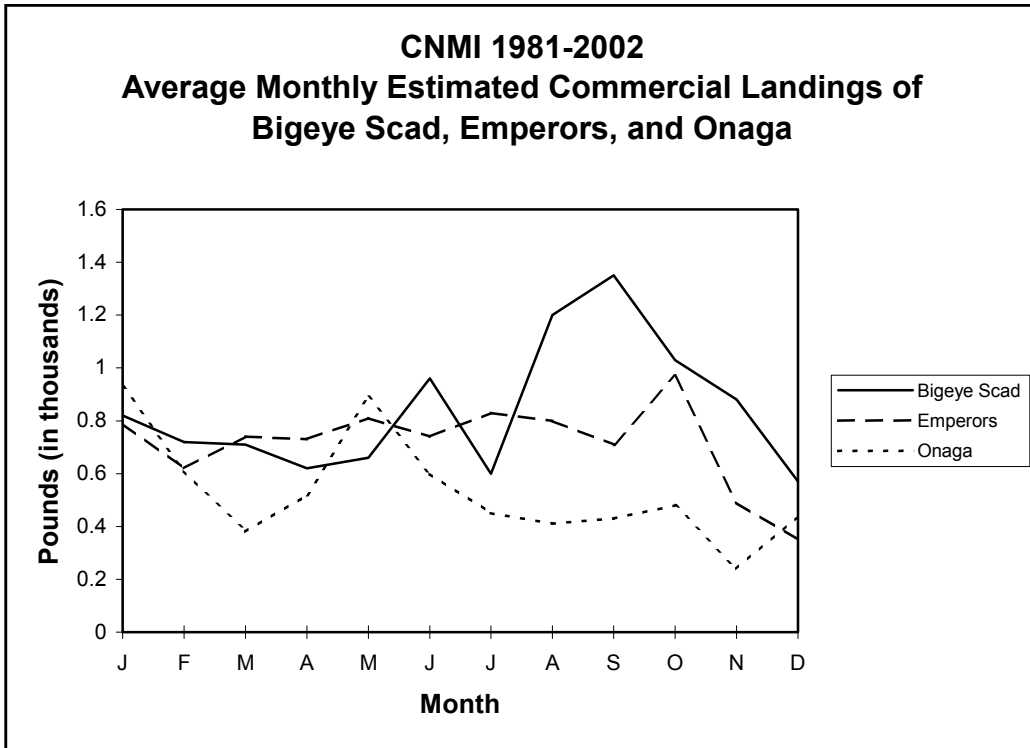


Figure III.2.5

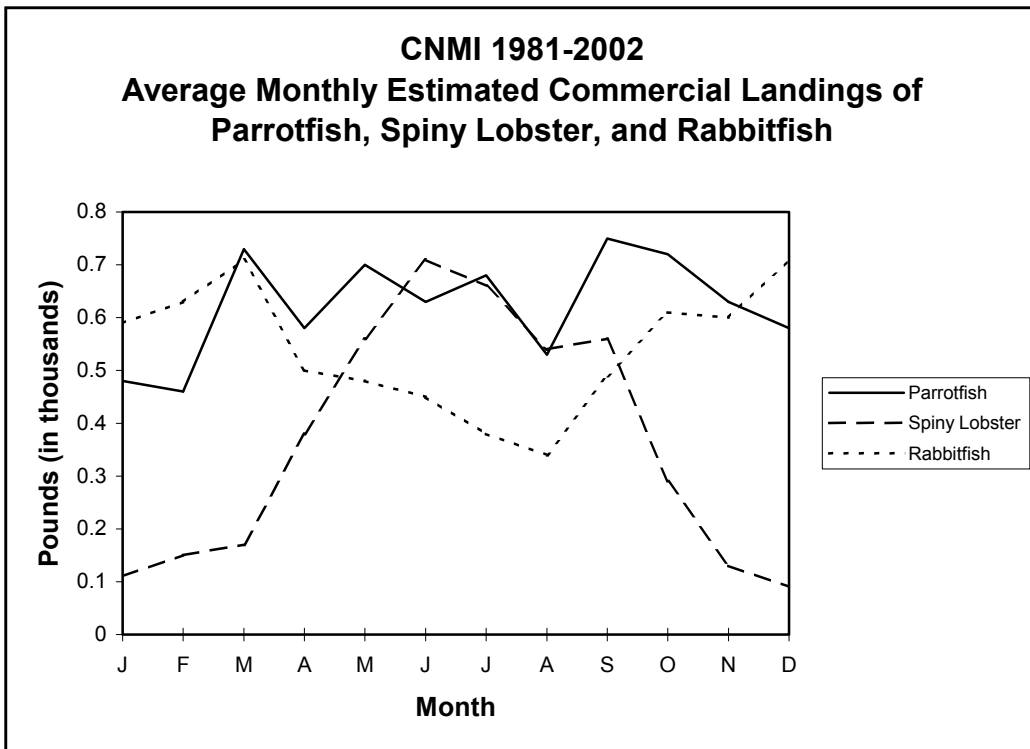


Figure III.3.1

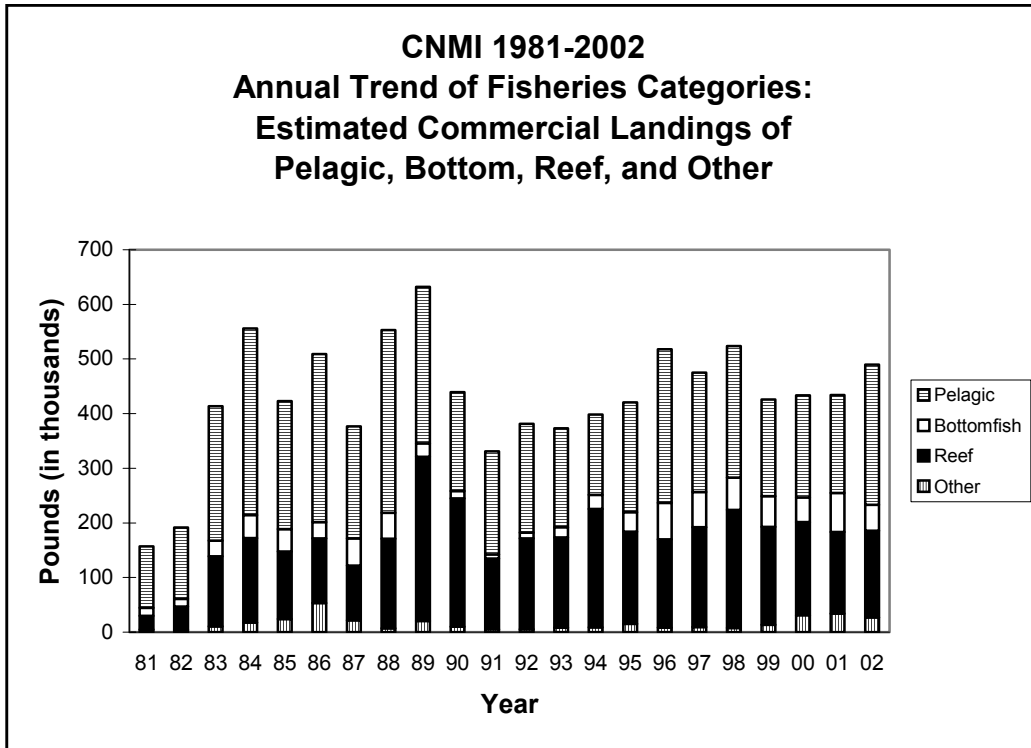


Figure III.3.2

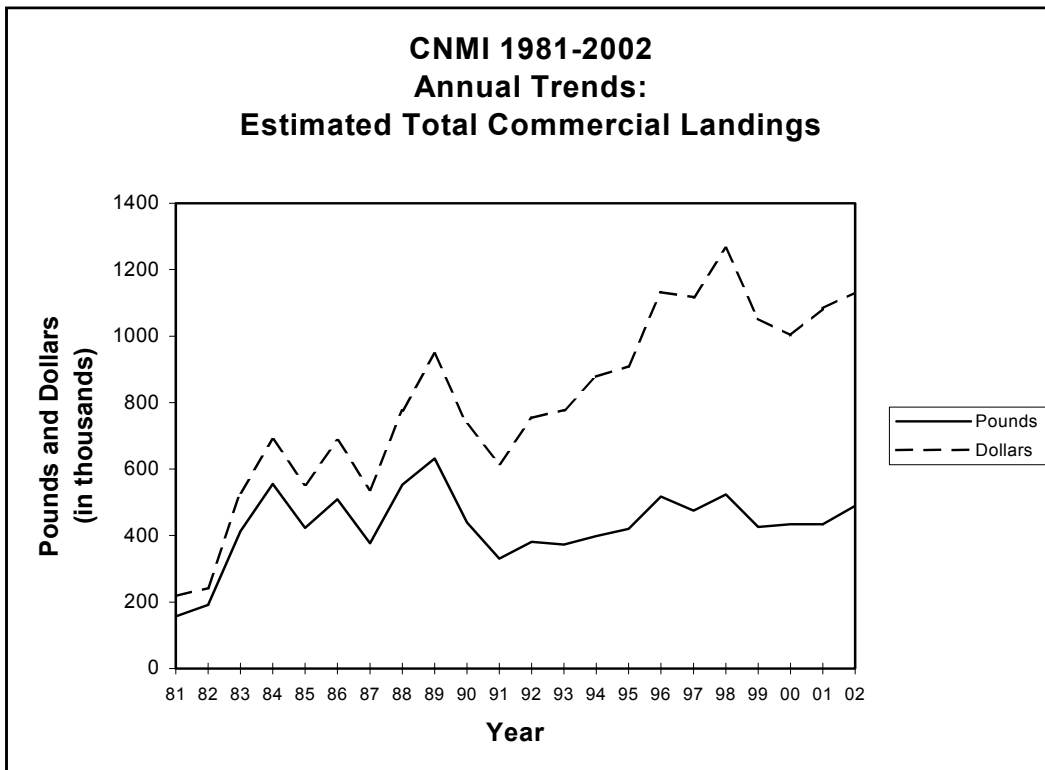


Figure III.3.3

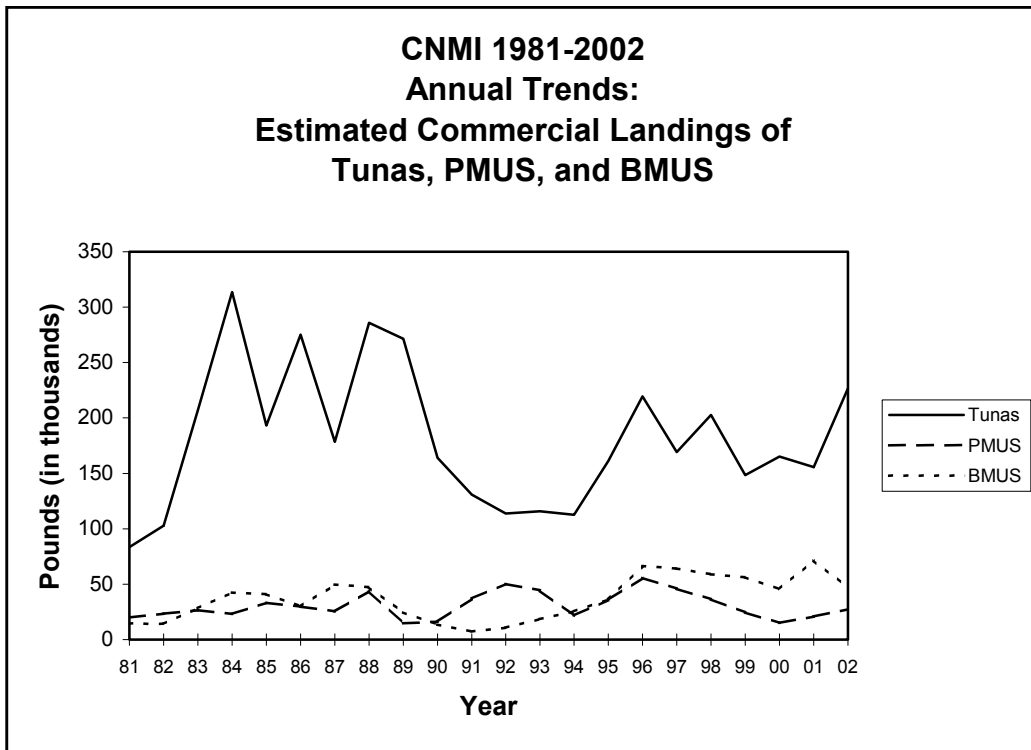


Figure III.3.4

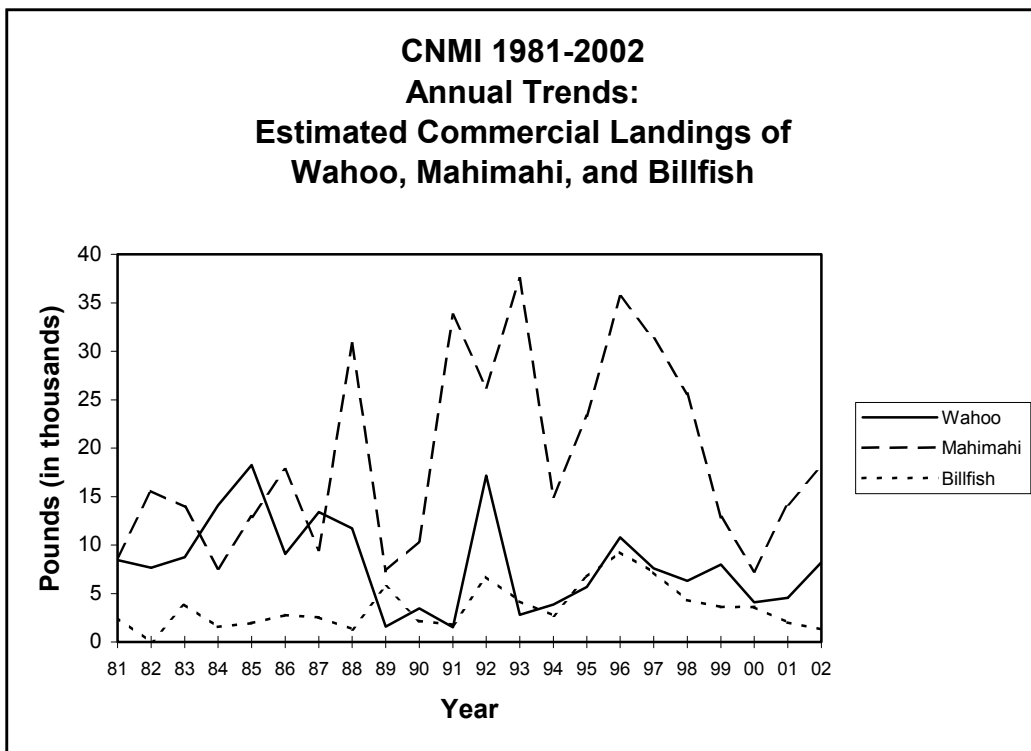


Figure III.3.5

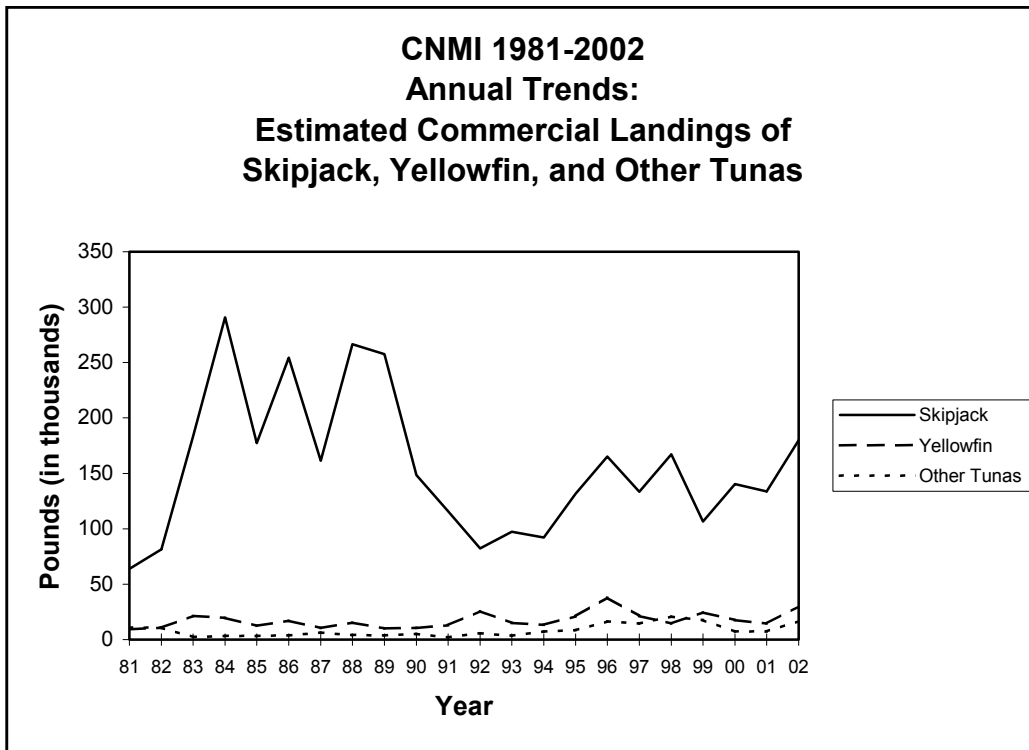


Figure III.3.6

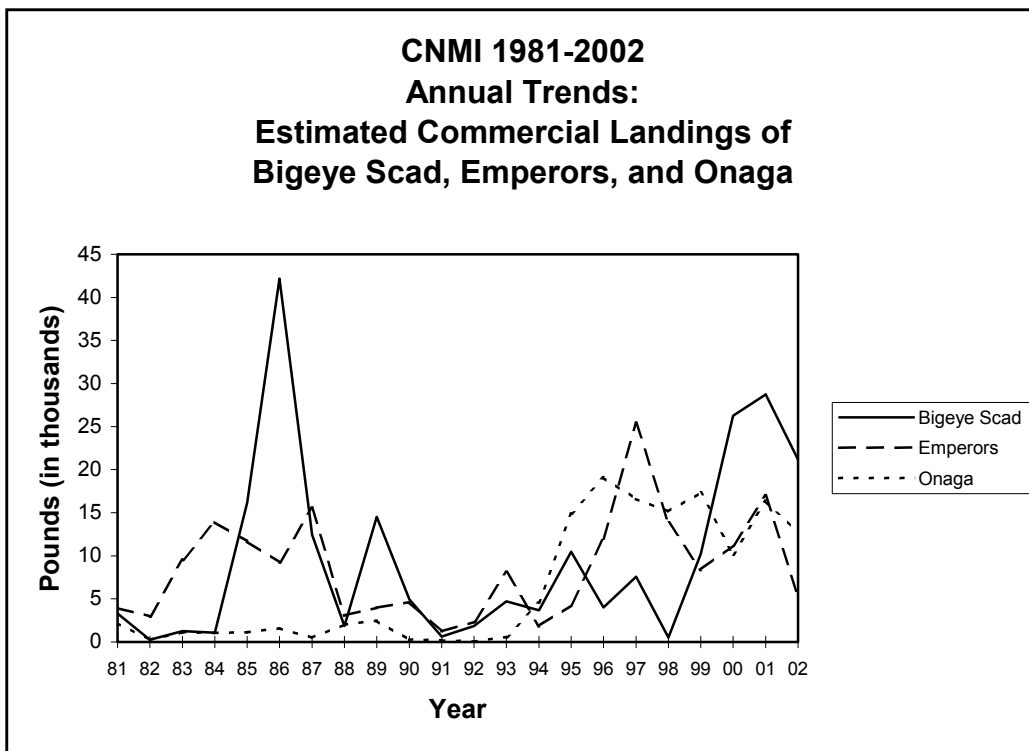


Figure III.3.7

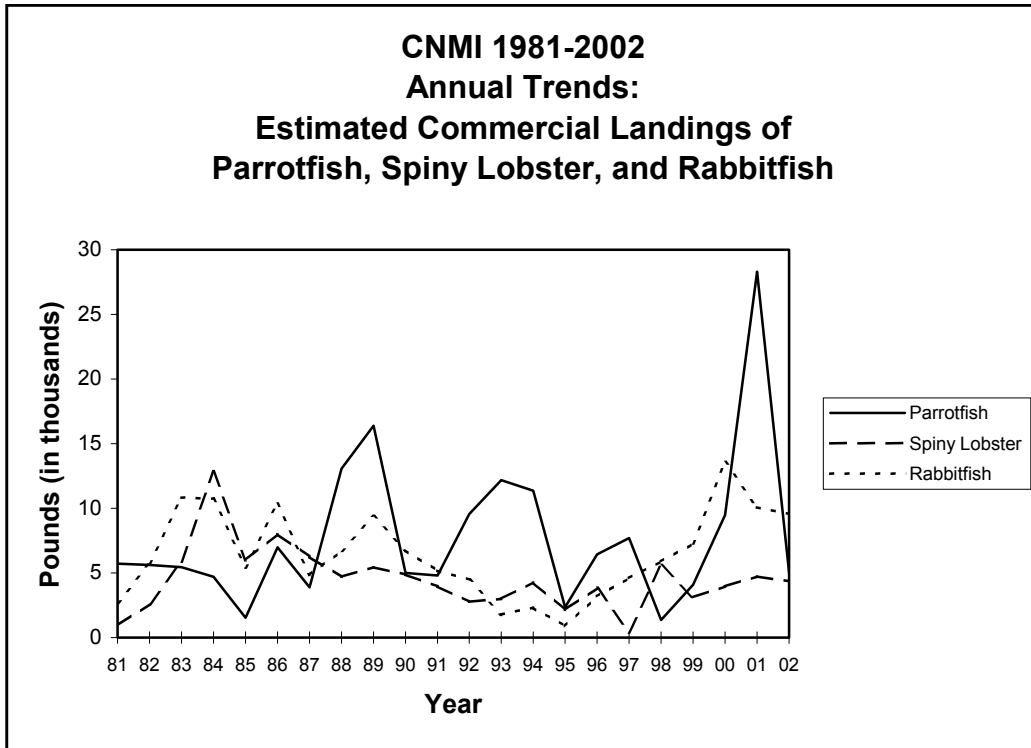


Figure III.4.1

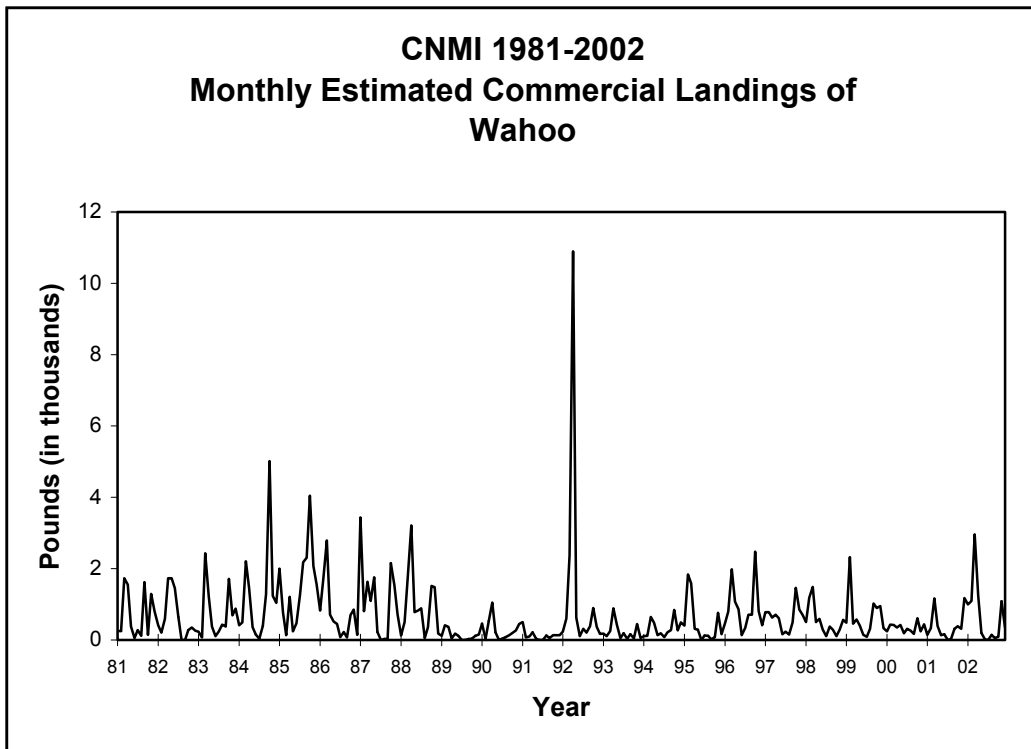




Figure III.4.2

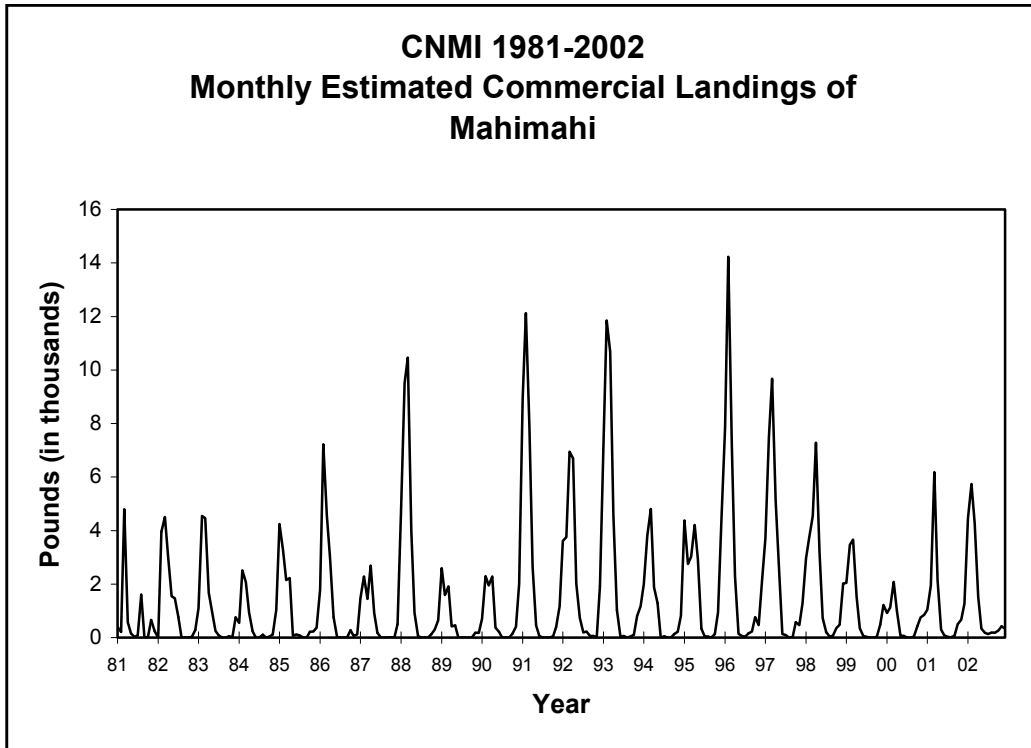


Figure III.4.3

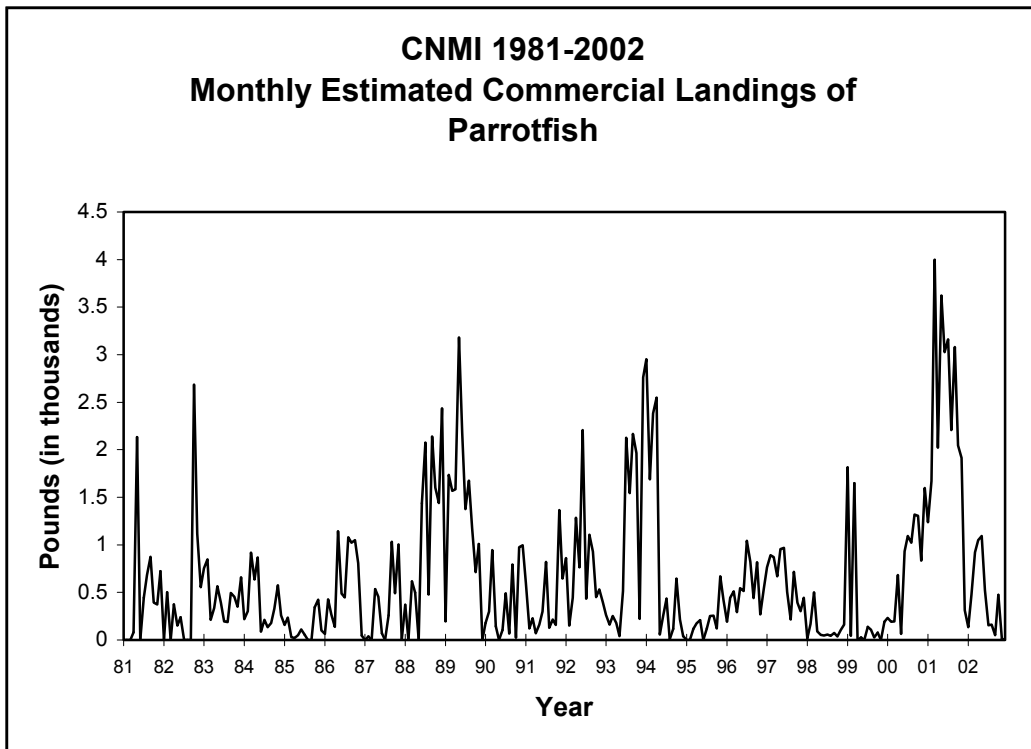


Figure III.4.4

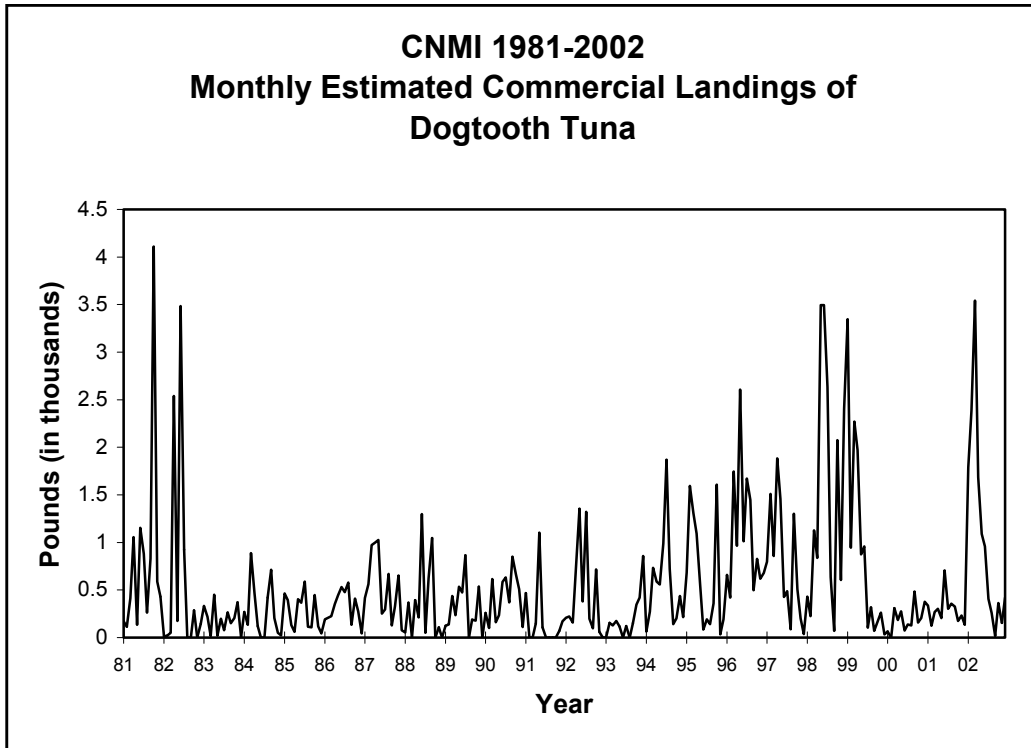


Figure III.4.5

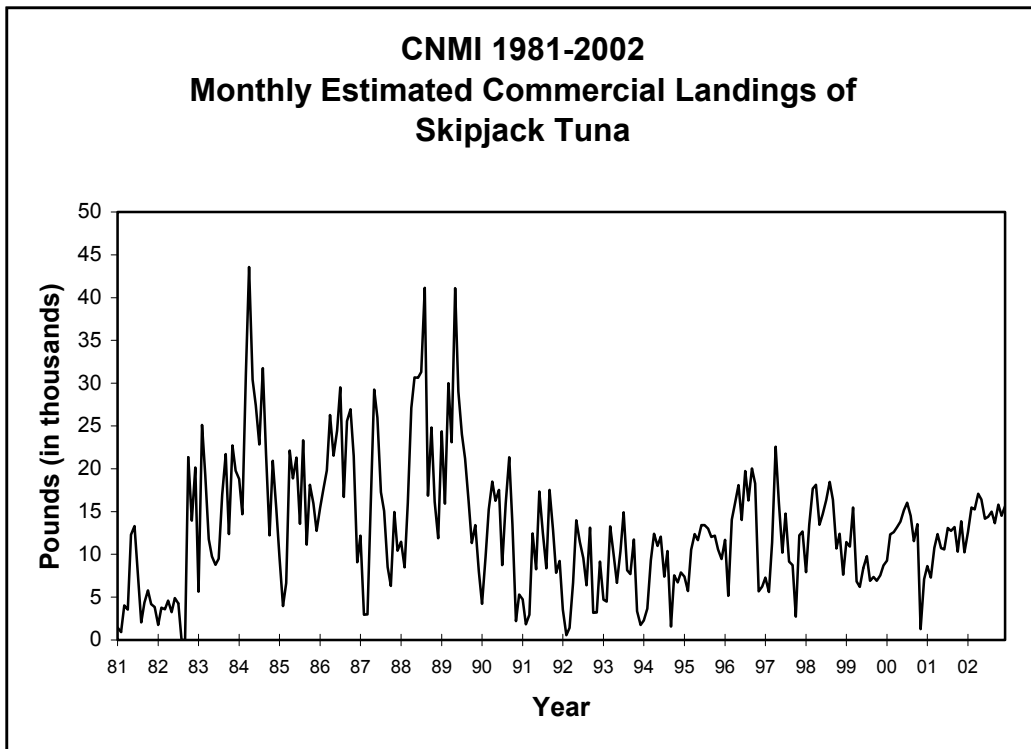


Figure III.4.6

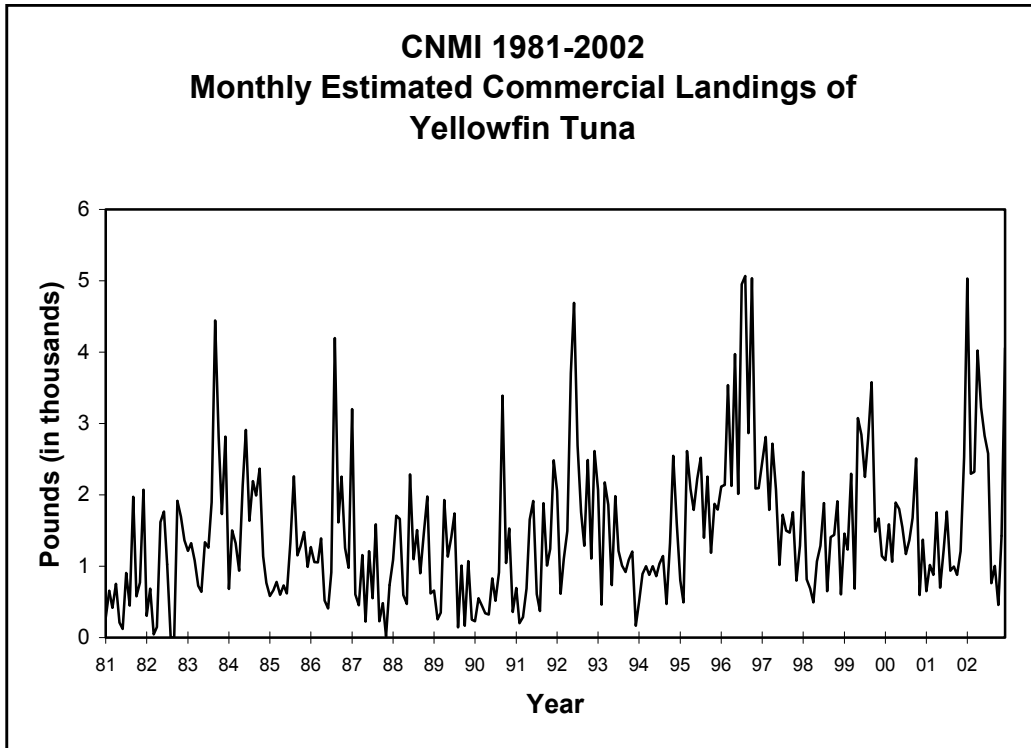


Figure III.4.7

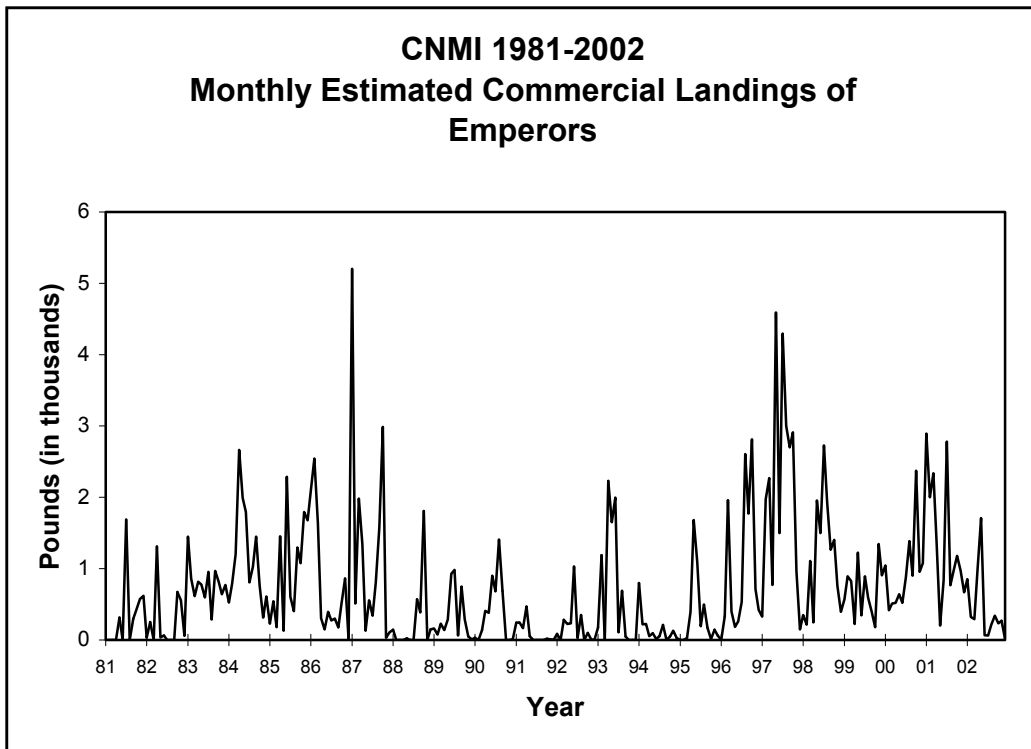


Figure III.4.8

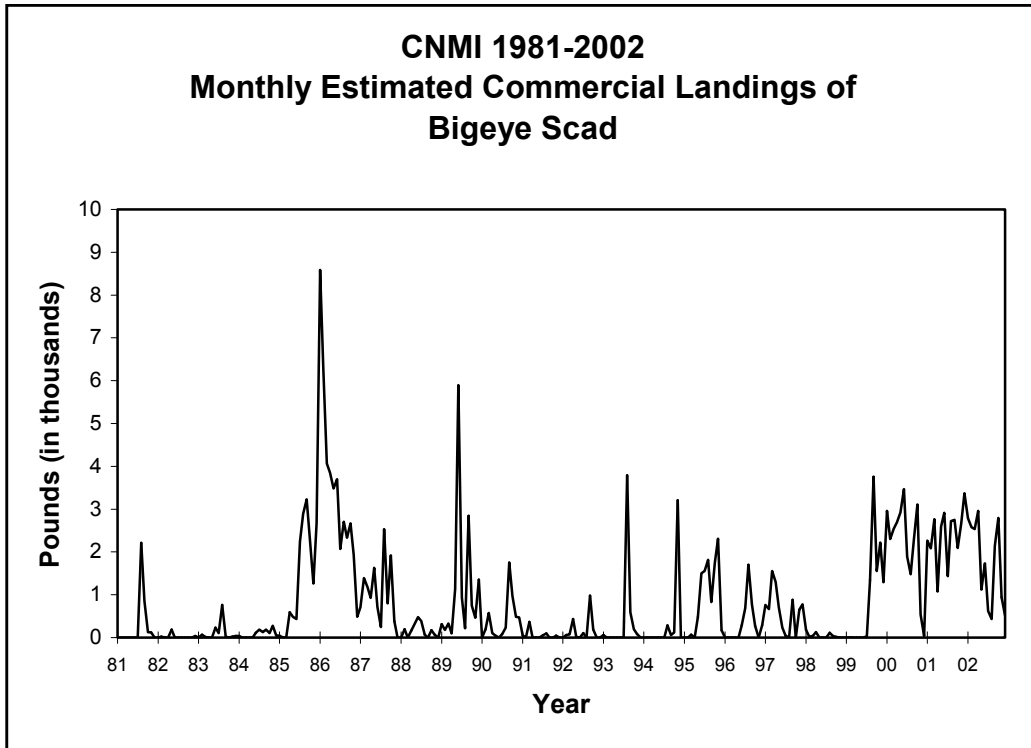


Figure III.4.9

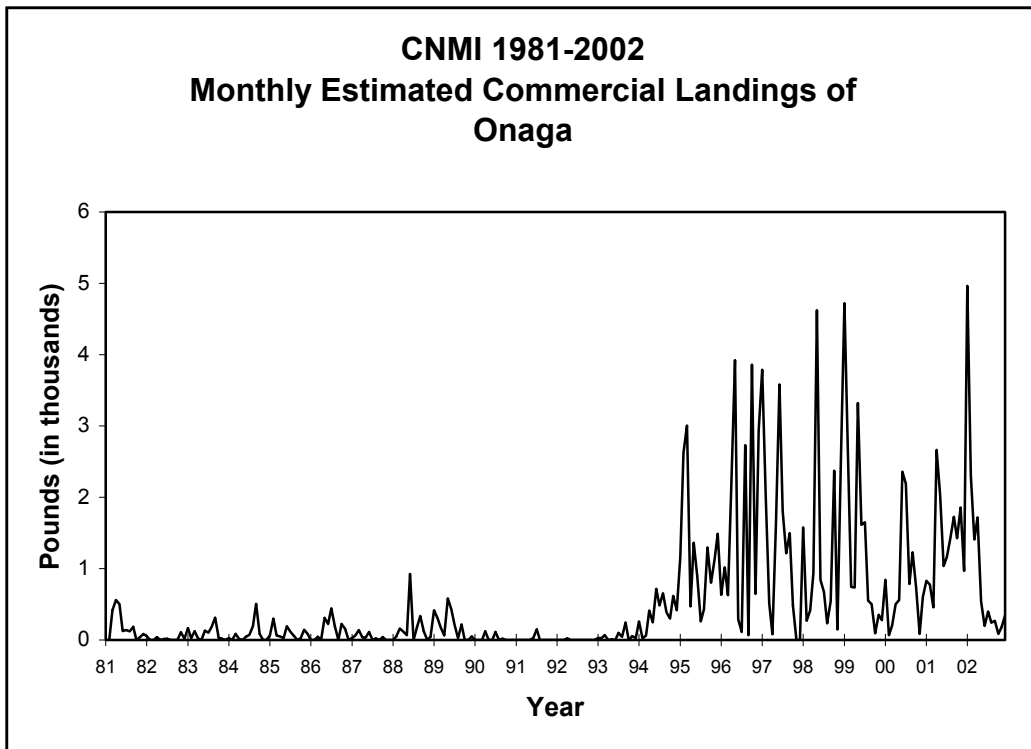


Figure III.4.10

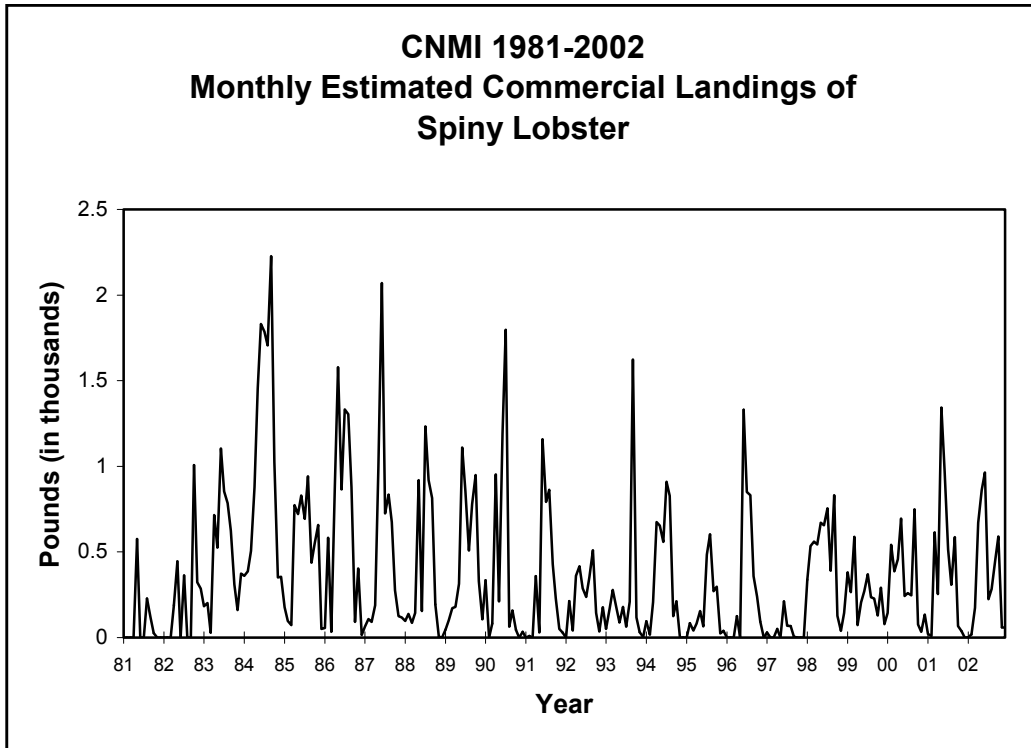


Figure III.4.11

