

STATE OF HAWAII 2006 FISHERY STATISTICS

Compiled by
Division of Aquatic Resources
and the
Western Pacific Fisheries Information Network

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STATE OF HAWAII 2006 FISHERY STATISTICS

INTRODUCTION

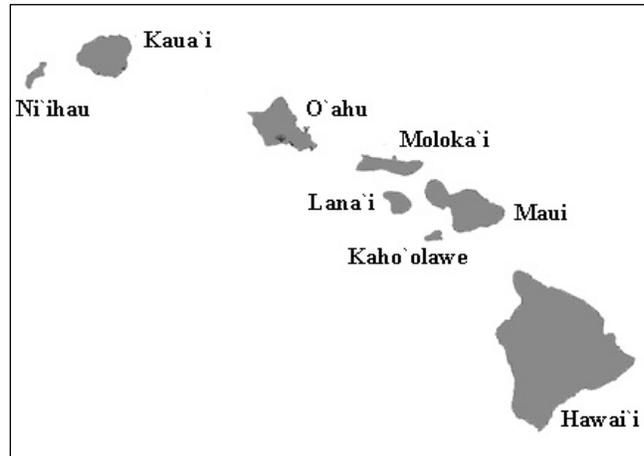
The Hawaiian Archipelago stretches northwestward over 1,500 miles.

Location: 19° N latitude, 155° W longitude to about 28° N latitude and 178° W longitude

Islands: Hawaii, Maui, Lanai, Molokai, Oahu, Kauai, and Niihau (comprise over 99% of the total land area)

Population: 1,286,000 (*The State of Hawaii Data Book, 2006 Update*)

Commercial Catch Breakdown (lbs):
86% on Oahu, 11% on Hawaii (Big Island), 2% on Maui, and about 1% on other islands



Hawaiian Islands: copied and modified from:
http://satftp.soest.hawaii.edu/space/hawaii/maps/All_Islands_map.710x509.gif
SOEST Satlab Server

The fisheries of the State of Hawaii are quite diverse; they vary from shore-based algae harvesting by hand to large-vessel fisheries such as longlining and lobster fishing. There are several major fisheries: tuna fishing through various methods, lobster trapping, hook-and-line bottomfishing for the grouper-snapper-jack complex, net fishing for species such as the bigeye scad, and trolling for such pelagic species as marlin, wahoo, and mahimahi.

In 2001, prohibitions were placed on landing shark fins without their associated carcasses and on making shallow-sets with longline gear to target swordfish. Shark and swordfish catches dropped dramatically, and longline effort significantly shifted from swordfish to tunas.

In 2004, the swordfish fishery was reopened due to new technology that reduced sea turtle bycatch. With the reopening, new regulations were implemented that required fishing vessels to have a shallow-set certificate for each deployment of shallow-set longline fishing gear. A limited number of certificates were made available for purchase each year. In addition, the swordfish fishery would close for the remainder of the year if the number of allowable interactions with leatherback (16) or loggerhead (17) sea turtles was reached.

Commercial fishing (i.e., selling catches or providing charter fishing services) in Hawaii requires purchasing a commercial marine fishing license. In year 2006, there were 3166 licensed commercial fishers. The summary catch data for 2006 were created from a combination of Hawaii Division of Aquatic Resources' (HDAR) fishers and dealer reporting forms processed through their Dealer Reporting System (DRS) and Fisherman Reporting System (FRS), as well as fishery reporting forms (including federal longline logbooks). It is believed to represent over 95% of what may eventually be submitted and processed.

DATA COLLECTING PROGRAMS

Previously, data processed in the Reported Landings tables and charts presented in this section were collected from various FRS Forms. Beginning in October 2002, HDAR implemented several new FRS forms that no longer required sales information reporting as a trade-off for requiring improved catch, effort, and bycatch statistics. The FRS was modified to accommodate these new forms.

The DRS was computerized in 2000 and is now a major source of sales data used to create the tables and charts. Data from the NOAA Fisheries Longline Logbook Program are integrated with DRS and FRS data to create the “best available” summaries presented in this report.

Dealers are required by state law to submit a Commercial Marine Dealer’s Report for each month that they are in the business of purchasing marine life. Information collected includes

- Dealer Name
- Dealer Number
- Month and Year
- Date
- First and Last Name from Whom Fish was Bought
- Fisherman’s Commercial Marine License Number
- Species Bought
- Pounds Bought
- Pieces Bought
- Amount Paid
- Condition

Likewise, all holders of a Commercial Marine License are required by state law to report on their fishing activity. The majority of commercial fishers use the “Monthly Fishing Report,” a replacement for the old General Fish Catch Report (C-3 Form). This form collects data on fishing catch and effort for each day, method, and area fished, and it is processed in the FRS. Information collected includes

- Fisherman’s Name and Commercial License Number
- Boat’s Name and Registration/USCG Number
- Month and Year Fished
- Day Fished
- Charter Trip (y/n)
- Buoy or Area Fished
- Fishing Method
- Hours Fished per Method/Area
- Number of Net Sets
- Number of Fishing Lines, Traps, or Net Length
- Port of Landing
- Species Name
- Number Landed
- Pounds Landed
- Number Lost
- Number Released

Other FRS data collection forms include the Net, Trap and Dive Activity Report, Tuna Handline Trip Report, Deep Sea Handline Trip Report, Aku Boat Report, NWHI Bottomfish Trip Sales Report, and NWHI Bottomfish Trip Daily Log. Commercial collectors of tropical marine fish are required to have an aquarium permit in addition to their commercial marine license, and they are required to report monthly on the C-6 Aquarium Fish Catch Report. Aquarium fish catches, however, are not included in this report’s statistics.

D.3

This report assumes that the data submitted by fishers are complete and accurate. The HDAR continually attempts to improve the quality of data and decrease the time delays in receiving and processing the data.

No real measurement is available for what percent of the total commercial catch is actually reported to HDAR via fishers and dealers, but estimates have ranged from about 10% to over 99%, depending on the species and fishery. The overall percent coverage was probably over 80% for all commercial fisheries combined in 2006.

DATA PROCESSING

When HDAR receives various data reporting forms, staff code and edit the data before keypunching. Forms that fail initial editing are returned for correction and resubmission, or minor problems may be cleared up over the telephone. Delinquency notices are sent to those who fall more than a few months behind in their reporting. Once the data are keypunched, HDAR staff use computer-generated reports to verify and correct errors in the database. When the database is considered to be reasonably complete and error free, it is ready for use in producing various summary catch reports.

DATA REPORTING

More than 150 marine species and species groups are recorded in HDAR's monthly landings reports, many of which are insignificant in the total catch. To help reduce this document's size and improve the usability of the tables, WPacFIN staff combined some of the less important species, reorganized the order of presentation, created a new species coding system, and translated all records in the database. The new coding system has 100 species and species groups based on flexible ecological and phylogenetic criteria. All of the commercially important pelagic and bottomfish species or unique species groups have individual codes and are reported separately. Marine pond catches are included in the species totals, but make up less than 0.4% of the total landings for each year.

The monthly and annual reports included in this document contain the common name, pounds caught, pounds sold, value rounded to the nearest dollar, and the average price per pound for each species. Pounds caught data is from the Longline Logbooks, Dealer Reports, and Fisherman Catch Reports; the pounds sold, value and price/pound data is from Dealer Reports. Each monthly report contains a subtotal for the sum of all species for that month.

Several types of graphs are also included. Please note that some of the charts in this volume are new or modified from earlier volumes. More up-to-date tables and charts are available at the WPacFIN website at <<http://www.pifsc.noaa.gov/wpacfin>>.

SPECIES CATEGORIES

The species and species groups that are used in the tables and graphs of Hawaii'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)
 - Mahimahi (dolphin) Wahoo
 - Blue marlin Black marlin
 - Striped marlin Shortnose spearfish
 - Sailfish Broadbill swordfish
 - Sharks Billfish (misc)

- II. Bottomfish Management Unit Species (BMUS)
 - Pig-lipped ulua Blue-lined snapper
 - Hawaiian grouper Gindai (flower snapper)
 - Ehu (red snapper) Lehi (silverjaw)
 - Golden kalekale Opakapaka (pink snapper)
 - Onaga (red snapper) Black ulua
 - Uku (gray snapper) Porgy
 - Amberjack Yellow-tail kali
 - White ulua

- III. Billfish
 - Billfish (misc) Blue marlin
 - Black marlin Striped marlin
 - Shortnose spearfish Sailfish
 - Broadbill swordfish

- IV. Tunas
 - Yellowfin tuna Skipjack tuna
 - Bigeye tuna Albacore

- V. Other Tunas
 - Tunas (misc)
 - Kawakawa

VI. Fisheries Categories

- A. Pelagic Species (All PMUS and tuna species including the following:)
- | | |
|-------------------|---------------------|
| Barracuda | Pelagic fish (misc) |
| Japanese mackerel | Rainbow runner |
| Moonfish (opah) | Pomfret |
| Oil fish | Rays |
- B. Bottomfish (All BMUS plus the following:)
- | | |
|-------------------|----------------|
| Blue trevally | Jacks (misc) |
| Papa ulua | Snake mackerel |
| Dobe ulua | Snappers |
| Blue spot grouper | |
- C. Reef Fish
- | | |
|---------------|-------------------|
| Bigeyes | Reef fish (misc) |
| Damselfish | Reef jacks (misc) |
| Filefish | Rudderfish |
| Flounders | Scorpionfish |
| Goatfish | Squirrelfish |
| Gobies | Surgeon/tangs |
| Hawkfish | Tilapia |
| Mountain bass | Triggerfish |
| Parrotfish | Trumpetfish |
| Pufferfish | Wrasse |
- D. Other
- | | |
|---------------------|---------------------|
| Miscellaneous | Silversides |
| Eels | Algae |
| Mackerel scad | Bigeye scad (akule) |
| Armorhead | Leatherjacket |
| Bonefish | Ten pounder |
| Milkfish | Herring/sardine |
| Needlefish | Flying fish |
| Threadfin | Mullet |
| Freshwater fish | Spiny lobster |
| Slipper lobster | Crabs |
| Shrimp (freshwater) | Shrimp (saltwater) |
| Octopus | Squid |
| Limpets (saltwater) | Sea turtles |
| Clams | Invertebrates |

D.6

Table D-1
Hawaii 2006 Annual Reported Commercial Landings

Species	Caught	Sold	Value	Price /Lb
Miscellaneous	5,794	4,958	\$5,980	\$1.21
Sharks	375,902	270,718	\$150,045	\$0.55
Rays	18	0	\$0	\$0.00
Eels	933	933	\$1,047	\$1.12
Bigeye scad (akule)	556,865	237,129	\$553,597	\$2.33
Mackerel scad	318,454	203,882	\$463,250	\$2.27
Leatherjacket	555	420	\$762	\$1.82
Ten pounder	1,365	1,016	\$1,021	\$1.01
Bonefish	6,222	4,127	\$4,406	\$1.07
Milkfish	3,142	2,279	\$2,949	\$1.29
Needlefish	553	314	\$512	\$1.63
Threadfin	892	404	1,945	\$4.81
Mullet	8,627	8,011	\$28,264	\$3.53
Pomfret	596,360	575,815	\$1,310,697	\$2.28
Oilfish	414,145	414,145	\$832,939	\$2.01
Jacks (misc)	1,605	1,316	\$2,731	\$2.08
Amberjack	4,582	323	\$530	\$1.64
Sasa ulua	954	512	\$679	\$1.33
Pig-lipped ulua	10,609	9,323	\$24,030	\$2.58
Dobe ulua	1,369	439	\$1,293	\$2.95
Papa ulua	4,438	3,102	\$10,506	\$3.39
White ulua	11,015	7,686	\$16,392	\$2.13
Black ulua	1,092	367	\$543	\$1.48
Blue trevally	4,162	2,626	\$5,276	\$2.01
Hawaiian grouper	32,154	26,742	\$139,156	\$5.20
Blue spot grouper	724	222	\$635	\$2.86
Snappers	2,460	1,950	\$7,334	\$3.76
Yellow-tail kali	58	2	\$9	\$3.75
Blue lined snapper	31,452	22,237	\$29,382	\$1.32
Ehu (red snapper)	23,267	18,406	\$93,991	\$5.11
Gindai (flower snapper)	3,894	3,199	\$10,544	\$3.30
Golden kalekale	8,084	6,794	\$23,595	\$3.47
Lehi (silverjaw)	7,420	7,021	\$24,027	\$3.42
Onaga (red snapper)	106,837	92,868	\$633,466	\$6.82
Opakapaka (pink snapper)	104,194	88,314	\$507,289	\$5.74
Uku (gray snapper)	162,061	143,083	\$446,718	\$3.12
Snake mackerel	3	1	\$2	\$1.91
Porgy	1,316	1,222	\$3,906	\$3.20
Reef fish (misc)	420	415	\$419	\$1.01
Reef jacks	70	27	\$93	\$3.50
Squirrelfish	27,988	27,304	\$105,048	\$3.85
Trumpetfish	38	35	\$60	\$1.72
Scorpionfish	2,721	2,104	\$8,089	\$3.84
Mountain bass	1,399	840	\$3,179	\$3.79
Bigeyes	3,283	3,055	\$9,795	\$3.21
Goatfish	41,990	30,854	\$92,763	\$3.01

Table D-1
Hawaii 2006 Annual Reported Commercial Landings (continued)

Species	Caught	Sold	Value	Price/Lb
Rudderfish	36,162	35,085	\$36,073	\$1.03
Damselfish	2,210	1,253	\$3,204	\$2.56
Hawkfish	369	365	\$916	\$2.51
Tilapia	8,210	605	\$1,145	\$1.89
Wrasse	5,043	3,489	\$15,822	\$4.54
Parrotfish	31,606	25,889	\$85,630	\$3.31
Surgeon/tangs	74,622	66,043	\$111,533	\$1.69
Flounders	135	125	\$284	\$2.28
Filefish	1,550	1,516	\$2,906	\$1.92
Pufferfish	1	0	\$0	\$0.00
Other pelagic	625	43	\$5	\$0.12
Moonfish (opah)	1,089,224	1,071,178	\$1,873,179	\$1.75
Rainbow runner	1,994	1,788	\$3,665	\$2.05
Mahimahi (dolphin)	1,527,525	1,342,465	\$3,642,280	\$2.71
Barracudas	33,616	31,662	\$30,352	\$0.96
Wahoo	1,005,367	891,298	\$2,329,190	\$2.61
Tunas (misc)	14,814	344	\$1,028	\$2.99
Skipjack tuna	1,081,805	867,532	\$1,195,866	\$1.38
Yellowfin tuna	3,200,420	3,031,474	\$7,938,078	\$2.62
Albacore	788,327	765,692	\$1,283,705	\$1.68
Bigeye tuna	10,523,651	9,965,857	\$33,665,656	\$3.38
Kawakawa	10,822	2,927	\$5,342	\$1.83
Other billfish	9,237	271	\$347	\$1.28
Broadbill swordfish	3,200,205	2,513,807	\$5,125,026	\$2.04
Blue marlin	1,216,168	946,133	\$971,012	\$1.03
Black marlin	10,882	8,947	\$9,873	\$1.10
Striped marlin	1,434,630	1,434,388	\$1,577,279	\$1.10
Shortnose spearfish	379,591	356,160	\$372,053	\$1.04
Sailfish	23,651	18,184	\$15,303	\$0.84
Spiny lobster	7,896	6,339	\$61,226	\$9.66
Slipper lobster	18	3	\$24	\$8.00
Crabs	28,920	8,672	\$37,505	\$4.32
Shrimp (saltwater)	42,750	5	\$30	\$5.82
Octopus	21,085	18,144	\$61,591	\$3.39
Squid	2,057	1,902	\$4,711	\$2.48
Limpets (saltwater)	11,160	5,072	\$57,042	\$11.2
Invertebrates	3,410	366	\$7,332	\$20.0
Algae	7,456	6,820	\$33,808	\$4.96
TOTAL	28,728,695	25,658,378	\$66,118,917	\$2.58

Table D-2
Hawaii January 2006 Reported Commercial Landings

Species	Caught	Sold	Value	Price/Lb
Miscellaneous	42	42	\$64	\$1.52
Sharks	24,901	20,925	\$10,137	\$0.48
Eels	53	53	\$53	\$1.01
Bigeye scad (akule)	24,886	10,272	\$24,173	\$2.35
Mackerel scad	25,666	16,361	\$35,776	\$2.19
Leatherjacket	28	23	\$31	\$1.36
Ten pounder	55	14	\$14	\$1.00
Bonefish	141	130	\$203	\$1.56
Milkfish	85	28	\$34	\$1.25
Needlefish	5	5	\$6	\$1.25
Threadfin	260	98	\$513	\$5.26
Mullet	41	0	\$0	\$0.00
Pomfret	33,788	30,868	\$87,446	2.83
Oilfish	40,248	40,248	\$63,168	\$1.57
Jacks (misc)	98	98	\$231	\$2.36
Amberjack	714	61	\$60	\$0.98
Sasa ulua	6	6	\$15	\$2.42
Pig-lipped ulua	1,098	854	\$2,243	\$2.63
Dobe ulua	202	4	\$5	\$1.50
Papa ulua	283	277	\$1,008	\$3.64
White ulua	446	358	\$901	\$2.52
Black ulua	263	65	\$97	\$1.50
Blue trevally	324	324	\$340	\$1.05
Hawaiian grouper	1,735	962	\$5,570	\$5.79
Blue spot grouper	65	5	\$12	\$2.59
Snappers	52	16	\$41	\$2.57
Yellow-tail kali	6	0	\$0	\$0.00
Blue lined snapper	1,760	1,060	\$1,265	\$1.19
Ehu (red snapper)	1,246	630	\$3,417	\$5.42
Gindai (flower snapper)	157	97	\$362	\$3.73
Golden kalekale	645	307	\$1,124	\$3.66
Lehi (silverjaw)	674	674	\$2,181	\$3.24
Onaga (red snapper)	7,241	3,361	\$25,212	\$7.50
Opakapaka (pink snapper)	8,955	3,859	\$23,315	\$6.04
Uku (gray snapper)	12,349	8,273	\$32,618	\$3.94
Porgy	29	23	\$67	\$2.93
Reef fish (misc)	5	5	\$2	\$0.31
Reef jacks	2	0	\$0	\$0.00
Squirrelfish	1,378	1,378	\$3,908	\$2.84
Trumpetfish	8	8	\$18	\$2.25
Scorpionfish	122	76	\$283	\$3.74
Mountain bass	244	115	\$751	\$6.51
Bigeyes	176	132	\$388	\$2.95
Goatfish	2,678	1,270	\$4,323	\$3.40
Rudderfish	4,040	4,040	\$4,081	\$1.01
Damselfish	157	68	\$189	\$2.80

Table D-2
Hawaii January 2006 Reported Commercial Landings (continued)

Species	Caught	Sold	Value	Price/Lb
Hawkfish	35	35	\$92	\$2.67
Tilapia	537	377	\$660	\$1.75
Wrasse	508	508	\$2,195	\$4.32
Parrotfish	829	379	\$1,073	\$2.83
Surgeon/tangs	5,465	3,911	\$5,761	\$1.47
Flounders	67	67	\$173	\$2.59
Filefish	111	111	\$192	\$1.73
Pufferfish	1	0	\$0	\$0.00
Other pelagic	240	14	\$1	\$0.10
Moonfish (opah)	50,860	49,125	\$123,781	\$2.52
Rainbow runner	119	90	\$222	\$2.47
Mahimahi (dolphin)	63,207	54,579	\$153,059	\$2.80
Barracudas	637	265	\$130	\$0.49
Wahoo	30,267	27,074	\$92,436	\$3.41
Tunas (misc)	248	0	\$0	\$0.00
Skipjack tuna	16,793	6,774	\$8,152	\$1.20
Yellowfin tuna	219,950	207,480	\$475,418	\$2.29
Albacore	45,389	40,411	\$80,496	\$1.99
Bigeye tuna	1,046,258	940,926	\$3,061,728	\$3.25
Kawakawa	381	182	\$330	\$1.82
Other billfish	61	61	\$137	\$2.25
Broadbill swordfish	286,339	238,848	\$687,078	\$2.88
Blue marlin	30,543	20,176	\$34,607	\$1.72
Black marlin	96	96	\$224	2.32
Striped marlin	59,948	59,948	\$129,029	\$2.15
Shortnose spearfish	32,952	29,272	\$42,690	\$1.46
Sailfish	1,072	115	\$144	\$1.26
Spiny lobster	1,364	1,067	\$10,397	\$9.74
Crabs	2,539	945	\$3,392	\$3.59
Shrimp (saltwater)	6,158	0	\$0	\$0.00
Octopus	1,738	1,165	\$3,835	\$3.29
Squid	370	370	\$1,110	\$3.00
Limpets (saltwater)	650	179	\$3,000	\$16.7
Invertebrates	600	0	\$0	\$0.00
Algae	1,094	1,094	\$4,732	\$4.32
TOTAL	2,104,778	1,833,110	\$5,261,922	\$2.87

**Table D-3
Hawaii February 2006 Reported Commercial Landings**

Species	Caught	Sold	Value	Price/Lb
Miscellaneous	102	92	\$58	\$0.63
Sharks	22,065	19,679	\$10,816	\$0.55
Eels	84	84	\$84	\$1.00
Bigeye scad (akule)	69,079	23,251	\$52,397	\$2.25
Mackerel scad	19,958	10,178	\$24,396	\$2.40
Leatherjacket	27	4	\$5	\$1.50
Ten pounder	6	6	\$6	\$1.00
Bonefish	1,046	1,046	\$1,057	\$1.01
Milkfish	50	0	\$0	\$0.00
Threadfin	81	23	\$111	\$4.94
Mullet	3	0	0	\$0.00
Pomfret	26,840	25,940	77,941	\$3.00
Oilfish	42,737	42,737	\$91,394	\$2.14
Jacks (misc)	50	46	\$58	\$1.26
Amberjack	778	63	\$78	\$1.23
Sasa ulua	10	9	\$22	\$2.42
Pig-lipped ulua	2,258	2,258	\$4,815	\$2.13
Dobe ulua	250	50	\$125	\$2.50
Papa ulua	394	394	\$1,256	\$3.19
White ulua	1,127	737	1,524	\$2.07
Black ulua	180	180	\$228	\$1.27
Blue trevally	226	226	\$509	\$2.26
Hawaiian grouper	2,767	2,522	\$13,432	\$5.33
Blue spot grouper	76	0	\$0	\$0.00
Snappers	130	122	\$493	\$4.05
Yellow-tail kali	23	0	\$0	\$0.00
Blue lined snapper	3,116	3,116	\$3,952	\$1.27
Ehu (red snapper)	2,814	2,677	\$11,896	\$4.44
Gindai (flower snapper)	569	569	\$1,992	\$3.50
Golden kalekale	991	962	\$3,516	\$3.66
Lehi (silverjaw)	1,002	978	\$3,285	\$3.36
Onaga (red snapper)	11,976	10,694	\$68,383	\$6.39
Opakapaka (pink snapper)	15,362	12,854	\$73,948	\$5.75
Uku (gray snapper)	15,141	11,272	\$34,097	\$3.02
Snake mackerel	1	1	\$2	\$1.91
Porgy	65	65	\$199	\$3.06
Reef fish (misc)	33	33	\$33	\$1.00
Squirrelfish	1,482	1,482	\$5,454	\$3.68
Trumpetfish	18	18	\$34	\$1.85
Scorpionfish	214	120	\$484	\$4.03
Mountain bass	206	148	\$454	3.06
Bigeyes	240	240	\$748	\$3.12
Goatfish	3,786	1,683	\$4,708	\$2.80
Rudderfish	96	69	\$96	\$1.38
Damselfish	118	20	\$61	\$2.98
Hawkfish	13	13	\$33	\$2.50

Table D-3
Hawaii February 2006 Reported Commercial Landings (continued)

Species	Caught	Sold	Value	Price/Lb
Tilapia	785	0	\$0	\$0.00
Wrasse	354	354	\$1,906	\$5.39
Parrotfish	1,576	1,576	\$4,935	\$3.13
Surgeon/tangs	5,324	5,324	\$9,145	\$1.72
Flounders	5	5	\$5	\$1.00
Filefish	202	202	\$345	\$1.71
Other pelagic	48	9	\$2	\$0.20
Moonfish (opah)	42,400	40,613	\$117,832	\$2.90
Rainbow runner	122	122	\$311	\$2.56
Mahimahi (dolphin)	105,561	86,039	\$226,120	\$2.63
Barracudas	881	521	\$709	\$1.36
Wahoo	36,937	32,996	\$125,825	\$3.81
Misc tunas	441	0	\$0	\$0.00
Skipjack tuna	18,631	4,448	\$6,609	\$1.49
Yellowfin tuna	329,539	313,308	\$910,904	\$2.91
Albacore	70,636	66,224	\$121,253	\$1.83
Bigeye tuna	899,624	860,016	\$3,027,891	\$3.52
Kawakawa	499	260	\$647	\$2.49
Broadbill swordfish	623,675	562,993	\$1,402,137	\$2.49
Blue marlin	31,885	25,796	\$51,398	\$1.99
Black marlin	509	415	\$975	\$2.35
Striped marlin	55,646	55,646	\$126,046	\$2.27
Shortnose spearfish	49,030	46,413	\$58,524	\$1.26
Sailfish	409	112	\$192	\$1.72
Spiny lobster	965	876	\$8,492	\$9.69
Crabs	1,546	698	\$3,428	\$4.91
Shrimp (saltwater)	21,638	0	\$0	\$0.00
Octopus	1,912	1,566	\$4,950	\$3.16
Limpets (saltwater)	1,121	579	\$5,546	\$9.57
Invertebrates	1,080	14	\$43	\$3.00
Algae	648	648	\$3,063	\$4.73
TOTAL	2,551,213	2,284,429	\$6,713,412	\$2.94

**Table D-4
Hawaii March 2006 Reported Commercial Landings**

Species	Caught	Sold	Value	Price/Lb
Miscellaneous	2,938	2,938	\$2,344	\$0.80
Sharks	23,707	20,451	\$12,846	\$0.63
Eels	38	38	\$40	\$1.05
Bigeye scad (akule)	23,302	11,093	\$27,427	\$2.47
Mackerel scad	10,610	6,526	\$16,199	\$2.48
Leatherjacket	11	11	\$13	\$1.20
Ten pounder	8	8	\$8	\$1.00
Bonefish	83	83	\$101	\$1.21
Milkfish	28	28	\$47	\$1.72
Needlefish	35	12	\$18	\$1.50
Threadfin	78	22	\$82	\$3.73
Mullet	11	11	\$30	\$2.73
Pomfret	43,964	41,334	\$112,130	\$2.71
Oilfish	44,559	44,559	\$85,571	\$1.92
Jacks (misc)	33	0	\$0	\$0.00
Amberjack	240	20	\$34	1.72
Sasa ulua	23	23	\$51	\$2.26
Pig-lipped ulua	1,754	1,337	\$3,560	\$2.66
Dobe ulua	143	143	\$491	\$3.43
Papa ulua	391	178	\$581	\$3.26
White ulua	969	498	\$1,131	\$2.27
Black ulua	25	0	\$0	\$0.00
Blue trevally	112	112	\$195	\$1.74
Hawaiian grouper	3,316	1,599	\$10,353	\$6.47
Blue spot grouper	65	49	\$123	\$2.50
Snappers	33	33	\$95	\$2.94
Blue lined snapper	1,613	1,395	\$2,144	\$1.54
Ehu (red snapper)	2,059	1,642	\$7,370	\$4.49
Gindai (flower snapper)	415	142	\$571	\$4.03
Golden kalekale	320	268	\$1,059	\$3.95
Lehi (silverjaw)	449	397	\$1,341	\$3.37
Onaga (red snapper)	7,240	7,240	\$48,022	\$6.63
Opakapaka (pink snapper)	6,710	6,710	\$39,908	\$5.95
Uku (gray snapper)	16,944	16,406	\$51,716	\$3.15
Porgy	78	78	\$250	\$3.20
Reef fish (misc)	34	34	\$41	\$1.22
Squirrelfish	1,145	1,145	\$4,639	\$4.05
Scorpionfish	183	183	\$596	\$3.26
Mountain bass	66	26	\$102	\$3.90
Bigeyes	83	83	\$279	\$3.38
Goatfish	1,886	1,886	\$5,511	\$2.92
Rudderfish	1,606	1,018	\$1,317	\$1.29
Damselfish	155	155	\$396	\$2.55
Hawkfish	13	10	\$26	\$2.70
Tilapia	1,271	0	\$0	\$0.00
Wrasse	198	150	\$1,091	\$7.26

Table D-4
Hawaii March 2006 Reported Commercial Landings (continued)

Species	Caught	Sold	Value	Price/Lb
Parrotfish	803	619	\$1,792	\$2.90
Surgeon/tangs	5,207	5,207	\$8,844	\$1.70
Flounders	2	2	\$4	\$2.00
Filefish	163	163	\$254	\$1.56
Moonfish (opah)	43,090	41,932	\$117,453	\$2.80
Rainbow runner	29	29	\$66	\$2.32
Mahimahi (dolphin)	204,508	181,990	\$413,414	\$2.27
Barracudas	2,845	2,845	\$3,340	\$1.17
Wahoo	99,573	90,269	\$236,058	\$2.62
Tunas (misc)	205	54	\$194	\$3.59
Skipjack tuna	25,697	14,296	\$27,600	\$1.93
Yellowfin tuna	321,944	311,205	\$890,858	\$2.86
Albacore	85,964	85,964	\$156,935	\$1.83
Bigeye tuna	676,548	654,626	\$2,366,149	\$3.61
Kawakawa	992	431	\$1,118	\$2.59
Other billfish	210	210	\$210	\$1.00
Broadbill swordfish	1,414,715	845,629	\$1,441,574	\$1.70
Blue marlin	54,969	49,286	\$66,962	\$1.36
Black marlin	471	0	\$0	\$0.00
Striped marlin	65,455	65,455	\$124,345	\$1.90
Shortnose spearfish	44,892	44,892	\$47,113	\$1.05
Sailfish	756	205	\$488	\$2.38
Spiny lobster	859	849	\$7,958	\$9.37
Crabs	2,963	1,216	\$5,881	\$4.84
Shrimp (saltwater)	12,269	0	\$0	\$0.00
Octopus	1,322	835	\$2,728	\$3.27
Squid	207	207	\$673	\$3.25
Limpets (saltwater)	1,618	630	\$4,870	\$7.73
Invertebrates	990	0	\$0	\$0.00
Algae	693	693	\$3,536	\$5.10
TOTAL	3,268,897	2,569,814	\$6,370,264	\$2.48

**Table D-5
Hawaii April 2006 Reported Commercial Landings**

Species	Caught	Sold	Value	Price/Lb
Miscellaneous	199	117	\$139	\$1.19
Sharks	19,697	18,222	\$12,504	\$0.69
Eels	37	37	\$38	\$1.02
Bigeye scad (akule)	56,498	16,708	\$40,753	\$2.44
Mackerel scad	17,929	12,237	\$28,238	\$2.31
Leatherjacket	61	61	\$91	\$1.48
Ten pounder	189	189	\$194	\$1.03
Bonefish	549	127	\$147	\$1.16
Milkfish	222	222	\$273	\$1.23
Needlefish	21	21	\$31	\$1.53
Threadfin	131	48	\$268	\$5.58
Mullet	1,227	1,227	\$4,262	\$3.47
Pomfret	51,551	51,551	\$113,393	\$2.20
Oilfish	35,052	35,052	\$70,198	\$2.00
Jacks (misc)	53	11	\$44	\$4.00
Amberjack	162	26	\$40	\$1.50
Sasa ulua	14	4	\$7	\$1.98
Pig-lipped ulua	1,367	908	\$2,550	\$2.81
Dobe ulua	206	206	\$602	\$2.93
Papa ulua	203	116	\$300	\$2.59
White ulua	1,018	501	\$848	\$1.69
Black ulua	40	23	\$44	\$1.90
Blue trevally	299	169	\$374	\$2.21
Hawaiian grouper	2,751	2,470	\$10,650	\$4.31
Blue spot grouper	51	20	\$47	\$2.40
Snappers	118	118	\$445	\$3.76
Blue lined snapper	2,574	2,574	\$3,297	\$1.28
Ehu (red snapper)	1,323	925	\$3,910	\$4.23
Gindai (flower snapper)	368	368	\$638	\$1.73
Golden kalekale	287	136	\$552	\$4.05
Lehi (silverjaw)	116	83	\$279	\$3.37
Onaga (red snapper)	4,216	3,723	\$20,772	\$5.58
Opakapaka (pink snapper)	6,056	4,710	\$22,336	\$4.74
Uku (gray snapper)	26,298	21,307	\$47,977	\$2.25
Porgy	233	233	\$763	\$3.28
Reef fish (misc)	5	0	\$0	\$0.00
Reef jacks	5	0	\$0	\$0.00
Squirrelfish	2,244	2,244	\$7,558	\$3.37
Trumpetfish	2	0	\$0	\$0.00
Scorpionfish	114	74	\$310	\$4.19
Mountain bass	61	3	\$15	\$4.50
Bigeyes	280	280	\$774	2.77
Goatfish	4,086	4,086	\$9,683	\$2.37
Rudderfish	2,096	2,096	\$2,123	\$1.01
Damselfish	92	90	\$261	\$2.91
Hawkfish	37	37	\$93	\$2.50

Table D-5
Hawaii April 2006 Reported Commercial Landings (continued)

Species	Caught	Sold	Value	Price/Lb
Tilapia	994	228	\$485	\$2.13
Wrasse	127	125	\$472	\$3.77
Parrotfish	3,352	2,452	\$8,381	\$3.42
Surgeon/tangs	3,394	3,177	\$5,203	\$1.64
Filefish	186	186	\$306	\$1.65
Moonfish (opah)	35,894	34,725	\$95,527	\$2.75
Rainbow runner	65	63	\$88	\$1.41
Mahimahi (dolphin)	246,827	222,575	\$517,263	\$2.32
Barracudas	6,287	6,287	\$6,596	\$1.05
Wahoo	134,103	115,660	\$239,747	\$2.07
Tunas (misc)	682	2	\$2	\$1.00
Skipjack tuna	40,701	20,341	\$36,405	\$1.79
Yellowfin tuna	231,124	224,282	\$640,980	\$2.86
Albacore	53,307	49,378	\$101,583	\$2.06
Bigeye tuna	644,035	630,737	2,625,948	\$4.16
Kawakawa	864	261	\$576	\$2.21
Other billfish	810	0	\$0	\$0.00
Broadbill swordfish	538,909	538,909	\$757,622	\$1.41
Blue marlin	104,745	86,058	\$83,362	\$0.97
Black marlin	749	749	\$619	\$0.83
Striped marlin	103,290	103,290	\$118,826	\$1.15
Shortnose spearfish	40,550	40,550	\$34,153	\$0.84
Sailfish	613	201	\$177	\$0.88
Spiny lobster	756	642	\$6,304	\$9.81
Slipper lobster	4	0	\$0	\$0.00
Crabs	3,966	1,646	\$8,553	\$5.20
Shrimp (saltwater)	2,504	0	\$0	\$0.00
Octopus	1,343	1,343	\$4,439	\$3.30
Limpets (saltwater)	1,185	138	\$2,234	\$16.2
Algae	549	346	\$2,236	\$6.47
TOTAL	2,442,045	2,267,709	\$5,705,906	\$2.52

**Table D-6
Hawaii May 2006 Reported Commercial Landings**

Species	Caught	Sold	Value	Price/Lb
Miscellaneous	147	147	\$192	\$1.30
Sharks	27,596	23,274	\$9,817	\$0.42
Eels	123	123	\$135	\$1.10
Bigeye scad (akule)	87,891	36,293	\$81,968	\$2.26
Mackerel scad	20,795	12,730	\$31,026	\$2.44
Leatherjacket	75	26	\$45	\$1.71
Ten pounder	290	118	\$118	\$1.00
Bonefish	88	72	\$72	\$1.00
Milkfish	223	100	\$115	\$1.15
Needlefish	22	22	\$24	\$1.13
Threadfin	95	34	\$133	\$3.98
Mullet	339	214	\$769	\$3.59
Pomfret	74,780	73,379	\$113,225	\$1.54
Oilfish	38,123	38,123	\$78,994	\$2.07
Jacks (misc)	698	698	\$1,438	\$2.06
Amberjack	191	11	\$22	\$2.00
Sasa ulua	41	3	\$8	\$2.75
Pig-lipped ulua	1,331	1,331	\$3,304	\$2.48
Dobe ulua	529	0	\$0	\$0.00
Papa ulua	340	308	\$1,123	\$3.64
White ulua	408	347	\$766	\$2.21
Black ulua	76	38	\$72	\$1.91
Blue trevally	402	95	\$159	\$1.67
Hawaiian grouper	3,486	3,486	\$16,121	\$4.62
Blue spot grouper	22	22	\$75	\$3.38
Snappers	144	91	\$287	\$3.15
Yellow-tail kali	2	0	\$0	\$0.00
Blue lined snapper	1,511	1,511	\$2,020	\$1.34
Ehu (red snapper)	1,846	1,846	\$8,265	\$4.48
Gindai (flower snapper)	343	343	\$786	\$2.29
Golden kalekale	290	290	\$961	\$3.32
Lehi (silverjaw)	348	253	\$856	\$3.38
Onaga (red snapper)	5,888	5,721	\$37,262	\$6.51
Opakapaka (pink snapper)	6,353	6,353	\$35,646	\$5.61
Uku (gray snapper)	13,891	13,551	\$36,688	\$2.71
Porgy	19	19	\$60	\$3.21
Reef fish (misc)	40	40	\$40	\$1.00
Reef jacks	37	21	\$74	\$3.50
Squirrelfish	2,015	2,015	\$7,764	\$3.85
Scorpionfish	165	156	\$701	\$4.51
Mountain bass	129	129	\$351	\$2.71
Bigeyes	151	151	\$540	\$3.58
Goatfish	3,986	2,918	\$8,338	\$2.86
Rudderfish	334	273	\$343	\$1.26
Damselfish	102	102	\$285	\$2.80
Hawkfish	63	63	\$156	\$2.48

Table D-6
Hawaii May 2006 Reported Commercial Landings (continued)

Species	Caught	Sold	Value	Price/Lb
Tilapia	1,145	0	\$0	\$0.00
Wrasse	130	130	\$534	\$4.09
Parrotfish	2,408	2,066	\$6,889	\$3.33
Surgeon/tangs	2,890	2,049	\$4,046	\$1.97
Filefish	427	427	\$1,077	\$2.52
Moonfish (opah)	71,638	68,216	\$125,996	\$1.85
Rainbow runner	83	83	\$168	\$2.03
Mahimahi (dolphin)	156,506	151,037	\$445,619	\$2.95
Barracudas	6,168	5,462	\$4,685	\$0.86
Wahoo	200,715	182,748	\$326,700	\$1.79
Tunas (misc)	630	0	\$0	\$0.00
Skipjack tuna	122,813	82,921	\$119,321	\$1.44
Yellowfin tuna	315,642	285,777	\$761,382	\$2.66
Albacore	95,239	95,239	\$150,970	\$1.59
Bigeye tuna	832,040	781,350	\$3,049,254	\$3.90
Kawakawa	1,235	391	\$476	\$1.22
Other billfish	400	0	\$0	\$0.00
Broadbill swordfish	85,797	82,619	214,708	\$2.60
Blue marlin	123,707	117,874	\$111,758	\$0.95
Black marlin	1,353	1,353	\$1,310	\$0.97
Striped marlin	121,976	121,976	\$129,042	\$1.06
Shortnose spearfish	50,885	48,346	\$33,883	\$0.70
Sailfish	1,890	1,340	\$884	\$0.66
Crabs	891	225	\$1,240	\$5.51
Octopus	980	980	\$3,250	\$3.32
Squid	28	28	\$70	\$2.50
Limpets (saltwater)	1,451	193	\$928	\$4.81
Invertebrates	81	81	\$294	\$3.66
Algae	994	985	\$6,234	\$6.33
TOTAL	2,495,907	2,260,735	\$5,981,860	\$2.65

Table D-7
Hawaii June 2006 Reported Commercial Landings

Species	Caught	Sold	Value	Price/Lb
Miscellaneous	558	492	\$1,170	\$2.38
Sharks	20,865	17,482	\$12,666	\$0.72
Eels	69	69	\$86	\$1.25
Bigeye scad (akule)	71,696	35,494	\$81,715	\$2.30
Mackerel scad	17,799	13,531	\$30,758	\$2.27
Leatherjacket	54	25	\$42	\$1.69
Ten pounder	261	261	\$261	\$1.00
Bonefish	2,040	1,567	\$1,664	\$1.06
Milkfish	361	62	\$93	\$1.50
Needlefish	123	123	\$219	\$1.78
Threadfin	11	11	\$47	\$4.43
Mullet	401	290	\$1,068	\$3.69
Pomfret	59,496	58,152	\$113,998	\$1.96
Oilfish	43,470	43,470	\$71,197	\$1.64
Jacks (misc)	24	11	\$26	\$2.40
Amberjack	317	75	\$75	\$0.99
Sasa ulua	47	24	\$23	\$0.96
Pig-lipped ulua	597	597	\$1,699	\$2.85
Papa ulua	589	589	\$2,027	\$3.44
White ulua	1,089	682	\$1,275	\$1.87
Black ulua	50	38	\$79	\$2.11
Blue trevally	426	426	\$1,007	\$2.36
Hawaiian grouper	2,739	2,269	\$12,022	\$5.30
Blue spot grouper	45	16	\$52	\$3.36
Snappers	396	338	\$1,300	\$3.84
Yellow-tail kali	10	0	\$0	\$0.00
Blue lined snapper	2,512	2,512	\$3,129	\$1.25
Ehu (red snapper)	1,919	1,779	\$8,069	\$4.54
Gindai (flower snapper)	218	172	\$484	\$2.82
Golden kalekale	361	302	\$1,124	\$3.73
Lehi (silverjaw)	127	127	\$411	\$3.23
Onaga (red snapper)	4,208	3,646	\$22,727	\$6.23
Opakapaka (pink snapper)	3,768	3,623	\$20,412	\$5.63
Uku (gray snapper)	13,360	11,240	\$32,024	\$2.85
Porgy	219	219	\$624	\$2.84
Reef fish (misc)	80	80	\$80	\$1.00
Reef jacks	26	6	\$19	\$3.50
Squirrelfish	2,265	2,231	\$9,089	\$4.07
Trumpetfish	4	3	\$2	\$0.75
Scorpionfish	181	145	\$684	\$4.71
Mountain bass	98	20	\$49	\$2.48
Bigeyes	469	399	\$1,180	\$2.96
Goatfish	3,758	2,585	\$8,385	\$3.24
Rudderfish	6,567	6,567	\$6,718	\$1.02
Damselfish	438	227	\$515	\$2.27
Hawkfish	28	28	\$71	\$2.48

Table D-7
Hawaii June 2006 Reported Commercial Landings (continued)

Species	Caught	Sold	Value	Price/Lb
Tilapia	850	0	\$0	\$0.00
Wrasse	312	164	\$500	\$3.04
Parrotfish	4,545	4,073	\$13,731	\$3.37
Surgeon/tangs	5,796	4,531	\$7,778	\$1.72
Flounders	11	0	\$0	\$0.00
Filefish	146	124	\$239	\$1.94
Moonfish (opah)	84,367	79,480	\$138,538	\$1.74
Rainbow runner	35	27	\$43	\$1.59
Mahimahi (dolphin)	88,358	75,396	\$275,971	\$3.66
Barracudas	3,780	3,780	\$4,163	\$1.10
Wahoo	124,768	107,400	\$235,367	\$2.19
Tunas (misc)	2,538	0	\$0	\$0.00
Skipjack tuna	119,688	83,085	\$125,513	\$1.51
Yellowfin tuna	296,158	285,565	\$721,846	\$2.53
Albacore	74,502	69,861	\$119,774	\$1.71
Bigeye tuna	811,108	745,551	\$2,638,844	\$3.54
Kawakawa	939	373	\$558	\$1.50
Other billfish	178	0	\$0	\$0.00
Broadbill swordfish	92,671	89,233	\$198,011	\$2.22
Blue marlin	133,220	90,245	\$91,834	\$1.02
Black marlin	1,018	1,018	\$1,149	\$1.13
Striped marlin	108,113	108,113	\$134,571	\$1.24
Shortnose spearfish	28,365	25,964	\$27,613	\$1.06
Sailfish	2,949	2,286	\$1,738	\$0.76
Spiny lobster	7	7	\$78	\$12.0
Crabs	78	78	\$426	\$5.46
Octopus	1,316	1,316	\$4,542	\$3.45
Squid	138	85	\$137	\$1.61
Limpets (saltwater)	1,265	306	\$5,623	\$18.4
Invertebrates	4	4	\$15	\$3.75
Algae	991	991	\$2,544	\$2.57
TOTAL	2,252,348	1,991,055	\$5,201,509	\$2.61

Table D-8
Hawaii July 2006 Reported Commercial Landings

Species	Caught	Sold	Value	Price/Lb
Miscellaneous	366	366	\$1,142	\$3.12
Sharks	26,903	18,029	\$11,772	\$0.65
Rays	18	0	\$0	\$0.00
Eels	18	18	\$20	\$1.07
Bigeye scad (akule)	72,544	27,227	\$61,218	\$2.25
Mackerel scad	21,209	14,654	\$35,855	\$2.45
Leatherjacket	29	16	\$20	\$1.25
Ten pounder	277	277	\$277	\$1.00
Bonefish	1,483	734	\$744	\$1.01
Milkfish	365	220	\$276	\$1.25
Needlefish	47	14	\$18	\$1.32
Mullet	1,483	1,325	\$4,565	\$3.45
Pomfret	44,036	41,912	\$119,690	\$2.86
Oilfish	39,993	39,993	\$69,939	\$1.75
Jacks (misc)	38	0	\$0	\$0.00
Amberjack	115	0	\$0	\$0.00
Sasa ulua	444	326	\$383	\$1.18
Pig-lipped ulua	239	220	\$629	\$2.86
Dobe ulua	27	27	\$52	\$1.98
Papa ulua	207	147	\$526	\$3.58
White ulua	984	324	\$830	\$2.56
Black ulua	25	0	\$0	\$0.00
Blue trevally	360	66	\$189	\$2.89
Hawaiian grouper	1,572	1,554	9,205	\$5.92
Blue spot grouper	103	10	\$33	\$3.26
Snappers	491	422	\$1,623	\$3.85
Yellow-tail kali	13	0	\$0	\$0.00
Blue lined snapper	4,745	2,806	\$3,422	\$1.22
Ehu (red snapper)	1,075	947	\$4,671	\$4.93
Gindai (flower snapper)	240	196	\$696	\$3.55
Golden kalekale	379	298	\$1,355	\$4.55
Lehi (silverjaw)	647	557	\$2,133	\$3.83
Onaga (red snapper)	5,996	5,846	\$37,873	\$6.48
Opakapaka (pink snapper)	4,370	4,301	\$25,267	\$5.88
Uku (gray snapper)	7,170	6,836	\$23,820	\$3.48
Porgy	74	74	\$253	\$3.43
Reef fish (misc)	53	53	\$53	\$1.00
Squirrelfish	2,619	2,619	\$10,449	\$3.99
Scorpionfish	149	146	\$518	\$3.56
Mountain bass	76	39	\$83	\$2.10
Bigeyes	278	272	\$752	\$2.77
Goatfish	3,077	2,788	\$7,821	\$2.81
Rudderfish	1,710	1,710	\$1,805	\$1.06
Damselfish	205	140	\$345	\$2.47
Hawkfish	41	41	\$111	\$2.72
Tilapia	710	0	\$0	\$0.00

Table D-8
Hawaii July 2006 Reported Commercial Landings (continued)

Species	Caught	Sold	Value	Price/Lb
Wrasse	368	205	\$713	\$3.47
Parrotfish	3,642	2,058	\$7,166	\$3.48
Surgeon/tangs	9,564	7,210	\$11,930	\$1.65
Filefish	74	74	\$145	\$1.96
Moonfish (opah)	128,950	128,950	\$196,368	\$1.52
Rainbow runner	104	79	\$113	\$1.43
Mahimahi (dolphin)	121,108	109,115	\$345,386	\$3.17
Barracudas	1,874	1,874	\$2,190	\$1.17
Wahoo	94,823	78,999	\$254,560	\$3.22
Tunas (misc)	3,198	1	\$3	\$3.00
Skipjack tuna	124,404	121,081	\$201,547	\$1.66
Yellowfin tuna	239,969	234,277	\$698,324	\$2.98
Albacore	147,636	147,636	\$189,121	\$1.28
Bigeye tuna	638,291	606,624	\$2,541,900	\$4.19
Kawakawa	2,358	270	\$451	\$1.67
Other billfish	194	0	\$0	\$0.00
Broadbill swordfish	67,376	67,376	\$188,199	\$2.79
Blue marlin	118,240	64,160	\$79,197	\$1.23
Black marlin	1,633	1,633	\$2,056	\$1.26
Striped marlin	134,096	134,096	\$162,930	\$1.22
Shortnose spearfish	21,817	18,068	\$27,359	\$1.51
Sailfish	2,205	974	\$1,053	\$1.08
Crabs	628	67	\$397	\$5.92
Octopus	1,222	1,195	\$4,027	\$3.37
Squid	319	319	\$428	\$1.34
Limpets (saltwater)	917	346	\$4,128	\$11.9
Invertebrates	18	18	\$59	\$3.25
Algae	782	782	\$3,521	\$4.50
TOTAL	2,112,812	1,905,030	\$5,363,697	\$2.82

**Table D-9
Hawaii August 2006 Reported Commercial Landings**

Species	Caught	Sold	Value	Price/Lb
Miscellaneous	430	128	\$110	\$0.86
Sharks	36,556	25,588	\$15,603	\$0.61
Eels	127	127	\$155	\$1.22
Bigeye scad (akule)	79,221	22,509	\$47,774	\$2.12
Mackerel scad	31,851	23,824	\$58,318	\$2.45
Leatherjacket	40	39	\$57	\$1.47
Ten pounder	177	72	\$72	\$1.00
Bonefish	127	49	\$49	\$1.00
Milkfish	323	298	\$427	\$1.44
Needlefish	26	23	\$33	\$1.45
Mullet	81	81	\$297	\$3.67
Pomfret	41,841	38,080	\$120,929	\$3.18
Oilfish	21,503	21,503	\$57,359	\$2.67
Jacks (misc)	98	29	\$63	\$2.16
Amberjack	103	9	\$9	\$1.00
Sasa ulua	55	38	\$97	\$2.57
Pig-lipped ulua	596	467	\$1,344	\$2.88
Papa ulua	246	176	\$601	\$3.42
White ulua	1,123	1,070	\$2,176	\$2.03
Blue trevally	738	417	\$948	\$2.27
Hawaiian grouper	4,285	3,419	\$16,929	\$4.95
Blue spot grouper	73	20	\$65	\$3.22
Snappers	434	406	\$1,631	4.02
Blue lined snapper	2,948	1,447	\$2,087	\$1.44
Ehu (red snapper)	1,105	871	\$4,806	\$5.52
Gindai (flower snapper)	431	409	\$1,380	\$3.37
Golden kalekale	576	430	\$1,349	\$3.14
Lehi (silverjaw)	285	285	\$1,045	\$3.67
Onaga (red snapper)	5,706	4,448	\$33,100	\$7.44
Opakapaka (pink snapper)	6,350	4,346	\$27,529	\$6.33
Uku (gray snapper)	10,647	10,647	\$43,534	\$4.09
Porgy	145	76	\$255	\$3.35
Reef fish (misc)	28	28	\$28	\$1.00
Squirrelfish	2,960	2,960	\$12,106	\$4.09
Scorpionfish	370	233	\$785	\$3.37
Mountain bass	142	142	\$590	\$4.17
Bigeyes	371	264	\$825	\$3.13
Goatfish	3,287	2,789	\$9,249	\$3.32
Rudderfish	8,606	8,298	\$8,541	\$1.03
Damselfish	383	120	\$301	\$2.51
Hawkfish	40	40	\$92	\$2.29
Tilapia	308	0	\$0	\$0.00
Wrasse	374	374	\$1,324	\$3.54
Parrotfish	4,869	3,974	\$13,314	\$3.35
Surgeon/tangs	11,160	8,999	\$14,863	\$1.65
Flounders	18	18	\$35	\$2.00

Table D-9
Hawaii August 2006 Reported Commercial Landings (continued)

Species	Caught	Sold	Value	Price/Lb
Filefish	166	166	\$239	\$1.43
Moonfish (opah)	139,736	139,736	\$224,319	1.61
Rainbow runner	235	224	\$435	\$1.94
Mahimahi (dolphin)	118,902	103,511	\$328,965	\$3.18
Barracudas	3,196	3,025	\$2,346	\$0.78
Wahoo	78,557	65,984	\$244,389	\$3.70
Tunas (misc)	2,880	15	\$45	\$3.00
Skipjack tuna	216,210	187,431	\$229,368	\$1.22
Yellowfin tuna	282,630	264,632	\$825,225	\$3.12
Albacore	90,495	90,495	\$159,736	\$1.77
Bigeye tuna	490,628	470,411	\$2,027,733	\$4.31
Kawakawa	1,905	184	\$321	\$1.74
Broadbill swordfish	18,917	18,917	\$60,916	\$3.22
Blue marlin	114,314	90,509	\$126,653	\$1.40
Black marlin	734	734	\$1,258	\$1.71
Striped marlin	85,988	85,988	\$145,522	\$1.69
Shortnose spearfish	14,197	11,838	\$21,704	\$1.83
Sailfish	2,455	2,455	\$3,295	\$1.34
Crabs	1,762	315	\$1,084	\$3.45
Octopus	2,304	1,664	\$5,562	\$3.34
Squid	228	228	\$317	1.39
Limpets (saltwater)	841	587	\$7,771	\$13.2
Algae	1,199	887	\$5,748	\$6.48
TOTAL	1,949,635	1,729,498	\$4,925,137	\$2.85

Table D-10
Hawaii September 2006 Reported Commercial Landings

Species	Caught	Sold	Value	Price/Lb
Miscellaneous	221	71	\$66	\$0.93
Sharks	29,006	24,886	\$17,999	\$0.72
Eels	86	86	\$92	\$1.07
Bigeye scad (akule)	7,513	4,061	\$10,818	\$2.66
Mackerel scad	37,014	25,239	\$57,285	\$2.27
Leatherjacket	15	15	\$17	1.16
Ten pounder	20	17	\$17	\$1.00
Bonefish	48	48	\$55	\$1.14
Milkfish	182	182	\$206	\$1.13
Needlefish	61	22	\$39	\$1.75
Threadfin	39	28	\$119	\$4.19
Mullet	2,059	1,922	\$6,635	\$3.45
Pomfret	46,959	46,171	\$104,684	\$2.27
Oilfish	13,655	13,655	\$40,660	\$2.98
Jacks (misc)	125	62	\$192	\$3.11
Amberjack	121	0	\$0	\$0.00
Sasa ulua	46	22	\$54	\$2.44
Pig-lipped ulua	33	33	\$80	\$2.43
Dobe ulua	2	2	\$5	\$2.50
Papa ulua	385	77	\$266	\$3.44
White ulua	1,049	754	\$1,744	\$2.31
Black ulua	18	0	\$0	\$0.00
Blue trevally	400	162	\$359	\$2.21
Hawaiian grouper	2,190	1,461	\$7,783	\$5.33
Blue spot grouper	30	22	\$78	\$3.51
Snappers	147	147	\$537	\$3.65
Yellow-tail kali	2	0	\$0	\$0.00
Blue lined snapper	1,419	1,075	\$1,554	\$1.44
Ehu (red snapper)	930	631	\$4,337	\$6.88
Gindai (flower snapper)	202	137	\$581	\$4.23
Golden kalekale	419	360	\$604	\$1.68
Lehi (silverjaw)	348	254	\$828	\$3.25
Onaga (red snapper)	7,734	5,928	\$41,543	\$7.01
Opakapaka (pink snapper)	5,230	4,179	\$24,800	\$5.93
Uku (gray snapper)	9,385	8,508	\$31,440	\$3.70
Snake mackerel	2	0	\$0	\$0.00
Porgy	105	95	\$338	\$3.55
Reef fish (misc)	48	48	\$48	\$1.00
Squirrelfish	3,612	3,362	\$13,514	\$4.02
Scorpionfish	206	178	\$560	\$3.15
Mountain bass	94	26	\$89	\$3.39
Bigeyes	470	470	\$1,672	\$3.56
Goatfish	4,656	2,088	\$6,961	\$3.33
Rudderfish	2,499	2,499	\$2,861	\$1.14
Damselfish	193	185	\$493	\$2.66
Hawkfish	17	17	\$46	\$2.67

Table D-10
Hawaii September 2006 Reported Commercial Landings (continued)

Species	Caught	Sold	Value	Price/Lb
Wrasse	685	616	\$2,944	\$4.78
Parrotfish	2,837	2,742	\$8,879	\$3.24
Surgeon/tangs	9,745	9,745	\$16,576	\$1.70
Flounders	14	14	\$29	\$2.00
Filefish	43	43	\$75	\$1.75
Other pelagic	96	0	\$0	\$0.00
Moonfish (opah)	151,848	151,848	\$171,488	\$1.13
Rainbow runner	668	633	\$1,350	\$2.13
Mahimahi (dolphin)	98,924	89,573	\$245,584	\$2.74
Barracudas	4,362	4,362	\$2,935	\$0.67
Wahoo	57,914	53,335	\$154,809	\$2.90
Tunas (misc)	1,286	126	\$378	\$3.00
Skipjack tuna	88,908	88,908	\$149,105	\$1.68
Yellowfin tuna	260,049	260,049	\$660,489	\$2.54
Albacore	73,165	73,165	\$111,553	\$1.52
Bigeye tuna	528,188	520,084	\$1,842,724	\$3.54
Kawakawa	524	146	\$257	\$1.76
Other billfish	297	0	\$0	\$0.00
Broadbill swordfish	12,980	12,831	\$39,028	\$3.04
Blue marlin	125,025	122,799	\$113,871	\$0.93
Black marlin	1,313	180	\$164	\$0.91
Striped marlin	80,238	79,997	\$89,272	\$1.12
Shortnose spearfish	17,789	17,387	\$20,225	\$1.16
Sailfish	3,897	3,897	\$4,018	\$1.03
Spiny lobster	1,168	920	\$8,655	\$9.41
Slipper lobster	8	0	\$0	\$0.00
Crabs	2,704	330	\$1,013	\$3.07
Octopus	1,949	1,949	\$6,895	\$3.54
Squid	122	91	\$417	\$4.56
Limpets (saltwater)	356	356	\$4,095	\$11.5
Invertebrates	58	58	\$201	\$3.50
Algae	213	213	\$1,008	\$4.74
TOTAL	1,706,363	1,645,575	\$4,040,090	\$2.46

Table D-11
Hawaii October 2006 Reported Commercial Landings

Species	Caught	Sold	Value	Price/Lb
Miscellaneous	353	126	\$96	\$0.77
Sharks	25,810	18,295	\$13,108	\$0.72
Eels	99	99	\$115	\$1.16
Bigeye scad (akule)	9,303	6,566	\$18,884	\$2.88
Mackerel scad	37,436	24,510	\$55,216	\$2.25
Leatherjacket	43	36	\$61	\$1.71
Ten pounder	51	26	\$26	\$1.00
Bonefish	65	65	\$109	\$1.68
Milkfish	774	774	\$970	\$1.25
Needlefish	54	18	\$27	\$1.50
Threadfin	95	95	\$488	\$5.17
Mullet	1,477	1,436	\$5,167	\$3.60
Pomfret	64,693	62,903	\$113,445	\$1.80
Oilfish	16,462	16,462	\$55,940	\$3.40
Jacks (misc)	320	320	\$580	\$1.81
Amberjack	567	0	\$0	\$0.00
Sasa ulua	85	11	\$11	\$1.00
Pig-lipped ulua	210	193	\$545	\$2.83
Papa ulua	580	186	\$569	\$3.06
White ulua	841	798	\$1,727	\$2.16
Black ulua	323	24	\$24	\$1.00
Blue trevally	334	232	\$439	\$1.89
Hawaiian grouper	2,845	2,845	\$14,036	\$4.93
Blue spot grouper	88	28	\$59	\$2.13
Snappers	370	111	\$387	\$3.49
Yellow-tail kali	1	1	\$4	\$3.50
Blue lined snapper	5,110	2,688	\$3,573	\$1.33
Ehu (red snapper)	2,792	2,106	\$10,685	\$5.07
Gindai (flower snapper)	314	314	\$1,053	\$3.35
Golden kalekale	1,140	1,140	\$3,831	\$3.36
Lehi (silverjaw)	1,388	1,388	\$4,253	\$3.06
Onaga (red snapper)	17,859	16,445	\$102,112	\$6.21
Opakapaka (pink snapper)	14,072	13,739	\$72,546	\$5.28
Uku (gray snapper)	11,329	10,948	\$36,111	\$3.30
Porgy	188	188	\$561	\$2.99
Reef fish (misc)	47	47	\$47	\$1.00
Squirrelfish	4,198	4,198	\$16,552	\$3.94
Scorpionfish	300	270	\$999	\$3.70
Mountain bass	175	168	\$604	3.59
Bigeyes	294	294	\$1,063	\$3.62
Goatfish	3,094	2,583	\$7,356	\$2.85
Rudderfish	297	297	\$530	\$1.79
Damselfish	232	83	\$186	\$2.23
Hawkfish	25	25	\$60	\$2.37
Wrasse	732	332	\$1,429	\$4.30
Parrotfish	1,794	1,665	\$5,132	\$3.08

Table D-11
Hawaii October 2006 Reported Commercial Landings (continued)

Species	Caught	Sold	Value	Price/Lb
Surgeon/tangs	4,171	4,171	\$7,161	\$1.72
Filefish	6	6	\$10	\$1.75
Other pelagic	96	0	\$0	\$0.00
Moonfish (opah)	134,843	133,922	\$169,393	\$1.26
Rainbow runner	302	279	\$500	\$1.79
Mahimahi (dolphin)	134,872	118,663	\$311,458	\$2.62
Barracudas	1,956	1,849	\$1,800	\$0.97
Wahoo	50,340	45,310	\$143,008	\$3.16
Tunas (misc)	1,841	0	\$0	\$0.00
Skipjack tuna	52,294	40,065	\$56,380	\$1.41
Yellowfin tuna	233,914	222,002	\$489,602	\$2.21
Albacore	33,151	28,896	\$54,508	\$1.89
Bigeye tuna	873,039	857,128	\$2,833,960	\$3.31
Kawakawa	454	132	\$155	\$1.17
Other billfish	236	0	\$0	\$0.00
Broadbill swordfish	15,094	13,746	\$35,071	\$2.55
Blue marlin	174,372	120,556	\$72,166	\$0.60
Black marlin	552	316	\$148	\$0.47
Striped marlin	256,874	256,874	\$122,328	\$0.48
Shortnose spearfish	21,959	20,880	\$16,054	\$0.77
Sailfish	3,972	3,972	\$1,835	\$0.46
Spiny lobster	906	649	\$6,314	\$9.72
Crabs	3,952	924	\$3,127	\$3.38
Shrimp (saltwater)	176	0	\$0	\$0.00
Octopus	2,184	1,583	\$5,753	\$3.63
Squid	481	481	\$1,417	\$2.95
Limpets (saltwater)	469	469	\$4,518	\$9.63
Invertebrates	460	92	\$3,220	\$35.0
Algae	53	5	\$39	\$7.76
TOTAL	2,231,675	2,068,042	\$4,890,635	\$2.36

Table D-12
Hawaii November 2006 Reported Commercial Landings

Species	Caught	Sold	Value	Price/Lb
Miscellaneous	117	117	\$62	\$0.53
Sharks	42,397	28,579	\$13,162	\$0.46
Eels	43	43	\$56	\$1.31
Bigeye scad (akule)	38,574	28,868	\$69,634	\$2.41
Mackerel scad	44,347	24,203	\$51,013	\$2.11
Leatherjacket	128	128	\$314	\$2.46
Bonfish	182	139	\$139	\$1.00
Milkfish	253	253	\$341	\$1.35
Needlefish	119	23	\$32	\$1.43
Threadfin	39	2	\$2	\$1.00
Mullet	1,493	1,493	\$5,431	\$3.64
Pomfret	58,075	55,191	\$113,130	\$2.05
Oilfish	29,515	29,515	\$62,937	\$2.13
Jacks (misc)	44	23	\$58	\$2.58
Amberjack	551	42	\$189	\$4.50
Sasa ulua	139	3	\$4	\$1.17
Pig-lipped ulua	765	765	\$2,204	\$2.88
Dobe ulua	10	8	\$12	\$1.50
Papa ulua	479	479	\$1,652	\$3.45
White ulua	1,137	995	\$1,954	\$1.96
Black ulua	83	0	\$0	\$0.00
Blue trevally	364	319	\$587	\$1.84
Hawaiian grouper	1,906	1,749	\$10,244	\$5.86
Blue spot grouper	59	0	\$0	\$0.00
Snappers	104	104	\$351	\$3.39
Yellow-tail kali	1	1	\$5	\$4.00
Blue lined snapper	2,232	1,530	\$2,186	\$1.43
Ehu (red snapper)	2,032	1,633	\$9,114	\$5.58
Gindai (flower snapper)	224	186	\$849	\$4.57
Golden kalekale	1,223	1,223	\$3,984	\$3.26
Lehi (silverjaw)	1,046	1,035	\$3,805	\$3.68
Onaga (red snapper)	15,509	14,104	\$100,300	\$7.11
Opakapaka (pink snapper)	14,112	14,112	\$81,752	\$5.79
Uku (gray snapper)	12,321	10,869	\$39,505	\$3.63
Porgy	99	99	\$370	\$3.74
Squirrelfish	2,287	2,287	\$8,785	\$3.84
Scorpionfish	288	226	\$859	\$3.80
Mountain bass	29	14	\$68	\$5.00
Bigeyes	162	162	\$559	\$3.45
Goatfish	5,314	4,448	\$13,845	\$3.11
Rudderfish	1,052	959	\$1,209	\$1.26
Damselfish	115	56	\$155	\$2.78
Hawkfish	40	40	\$92	\$2.27
Tilapia	1,000	0	\$0	\$0.00
Wrasse	725	413	\$2,123	\$5.15
Parrotfish	2,593	2,270	\$7,226	\$3.18

Table D-12
Hawaii November 2006 Reported Commercial Landings (continued)

Species	Caught	Sold	Value	Price/Lb
Surgeon/tangs	6,966	6,779	\$11,418	\$1.68
Flounders	7	7	\$14	\$2.00
Filefish	9	9	\$15	\$1.75
Moonfish (opah)	108,208	105,241	\$192,012	\$1.82
Rainbow runner	162	116	\$207	\$1.79
Mahimahi (dolphin)	135,087	112,845	\$274,502	\$2.43
Barracudas	1,006	827	\$834	\$1.01
Wahoo	49,242	43,396	\$132,039	\$3.04
Tunas (misc)	600	1	\$1	\$1.10
Skipjack tuna	119,764	105,805	\$116,202	\$1.10
Yellowfin tuna	231,926	198,359	\$405,019	\$2.04
Albacore	3,710	3,292	\$8,237	\$2.50
Bigeye tuna	1,362,269	1,176,782	\$3,092,435	\$2.63
Kawakawa	512	232	\$355	\$1.53
Other billfish	352	0	\$0	\$0.00
Broadbill swordfish	21,381	20,354	\$48,966	\$2.41
Blue marlin	132,819	99,073	\$71,313	\$0.72
Black marlin	1,012	1,012	\$650	\$0.64
Striped marlin	202,042	202,042	\$120,228	\$0.60
Shortnose spearfish	27,827	24,203	\$19,513	\$0.81
Sailfish	2,322	2,233	\$1,166	\$0.52
Spiny lobster	897	615	\$5,914	\$9.61
Slipper lobster	4	3	\$24	\$8.00
Crabs	3,377	717	\$2,565	\$3.58
Shrimp (saltwater)	5	5	\$30	\$5.82
Octopus	2,531	2,264	\$7,875	\$3.48
Squid	86	62	\$109	\$1.76
Limpets (saltwater)	779	779	\$8,473	\$10.9
Invertebrates	120	100	\$3,500	\$35.0
Algae	139	139	\$768	\$5.54
TOTAL	2,698,485	2,335,996	\$5,134,684	\$2.20

Table D-13
Hawaii December 2006 Reported Commercial Landings

Species	Caught	Sold	Value	Price/Lb
Miscellaneous	322	322	\$538	\$1.67
Sharks	76,400	35,309	\$9,615	\$0.27
Eels	158	158	\$175	\$1.10
Bigeye scad (akule)	16,360	14,787	\$36,836	\$2.49
Mackerel scad	33,840	19,888	\$39,169	\$1.97
Leatherjacket	44	37	\$66	\$1.78
Ten pounder	33	30	\$30	\$1.00
Bonefish	370	68	\$68	\$1.00
Milkfish	277	114	\$167	\$1.47
Needlefish	41	33	\$63	\$1.93
Threadfin	66	46	\$183	\$4.01
Mullet	14	14	\$42	\$3.00
Pomfret	50,338	50,338	\$120,686	\$2.40
Oilfish	48,829	48,829	\$85,582	\$1.75
Jacks (misc)	25	19	\$42	\$2.28
Amberjack	724	16	\$24	\$1.50
Sasa ulua	44	44	\$4	\$0.10
Pig-lipped ulua	361	361	\$1,057	\$2.93
Papa ulua	341	173	\$596	\$3.45
White ulua	824	623	\$1,517	\$2.43
Black ulua	10	0	\$0	\$0.00
Blue trevally	177	77	\$171	\$2.23
Hawaiian grouper	2,563	2,406	\$12,811	\$5.32
Blue spot grouper	46	30	\$91	\$3.00
Snappers	42	42	\$144	\$3.43
Blue lined snapper	1,913	524	\$754	\$1.44
Ehu (red snapper)	4,127	2,719	17,450	\$6.42
Gindai (flower snapper)	413	266	\$1,152	\$4.33
Golden kalekale	1,455	1,079	\$4,138	\$3.84
Lehi (silverjaw)	992	990	\$3,610	\$3.65
Onaga (red snapper)	13,264	11,713	\$96,162	\$8.21
Opakapaka (pink snapper)	12,856	9,528	\$59,829	\$6.28
Uku (gray snapper)	13,227	13,227	\$37,187	\$2.81
Porgy	63	53	\$167	\$3.15
Reef fish (misc)	49	49	\$49	\$1.00
Squirrelfish	1,784	1,383	\$5,232	\$3.78
Trumpetfish	6	6	\$6	\$1.00
Scorpionfish	427	298	\$1,310	\$4.39
Mountain bass	79	9	\$25	\$2.72
Bigeyes	311	311	\$1,015	\$3.27
Goatfish	2,381	1,730	6,583	\$3.80
Rudderfish	7,260	7,260	\$6,451	\$0.89
Damselfish	21	8	\$17	\$2.14
Hawkfish	15	15	\$44	\$2.84
Tilapia	610	0	\$0	\$0.00
Wrasse	531	117	\$591	\$5.05

Table D-13
Hawaii December 2006 Reported Commercial Landings (continued)

Species	Caught	Sold	Value	Price/Lb
Parrotfish	2,360	2,014	\$7,113	\$3.53
Surgeon/tangs	4,941	4,941	\$8,807	\$1.78
Flounders	12	12	\$24	\$2.00
Filefish	17	6	\$11	\$1.75
Other pelagic	144	20	\$2	\$0.10
Moonfish (opah)	97,390	97,390	\$200,473	\$2.06
Rainbow runner	72	46	\$161	\$3.52
Mahimahi (dolphin)	53,664	37,142	\$104,939	\$2.83
Barracudas	623	568	\$622	\$1.10
Wahoo	48,128	48,128	\$144,253	\$3.00
Tunas (misc)	265	145	\$404	\$2.79
Skipjack tuna	135,903	112,377	\$119,665	\$1.06
Yellowfin tuna	237,576	224,537	\$458,030	\$2.04
Albacore	15,133	15,133	\$29,539	\$1.95
Bigeye tuna	1,721,623	1,721,623	\$4,557,088	\$2.65
Kawakawa	159	65	\$97	\$1.49
Other billfish	6,499	0	\$0	\$0.00
Broadbill swordfish	22,353	22,353	\$51,717	\$2.31
Blue marlin	72,331	59,602	\$67,889	\$1.14
Black marlin	1,442	1,442	\$1,322	\$0.92
Striped marlin	160,966	160,966	\$175,141	\$1.09
Shortnose spearfish	29,329	28,347	\$23,223	\$0.82
Sailfish	1,112	393	\$314	\$0.80
Spiny lobster	975	714	\$7,114	\$9.97
Slipper lobster	2	0	\$0	\$0.00
Crabs	4,517	1,511	\$6,399	\$4.23
Octopus	2,283	2,283	\$7,735	\$3.39
Squid	79	32	\$35	\$1.10
Limpets (saltwater)	510	510	\$5,858	\$11.5
Algae	103	39	\$380	\$9.73
TOTAL	2,914,538	2,767,386	\$6,529,802	\$2.36

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

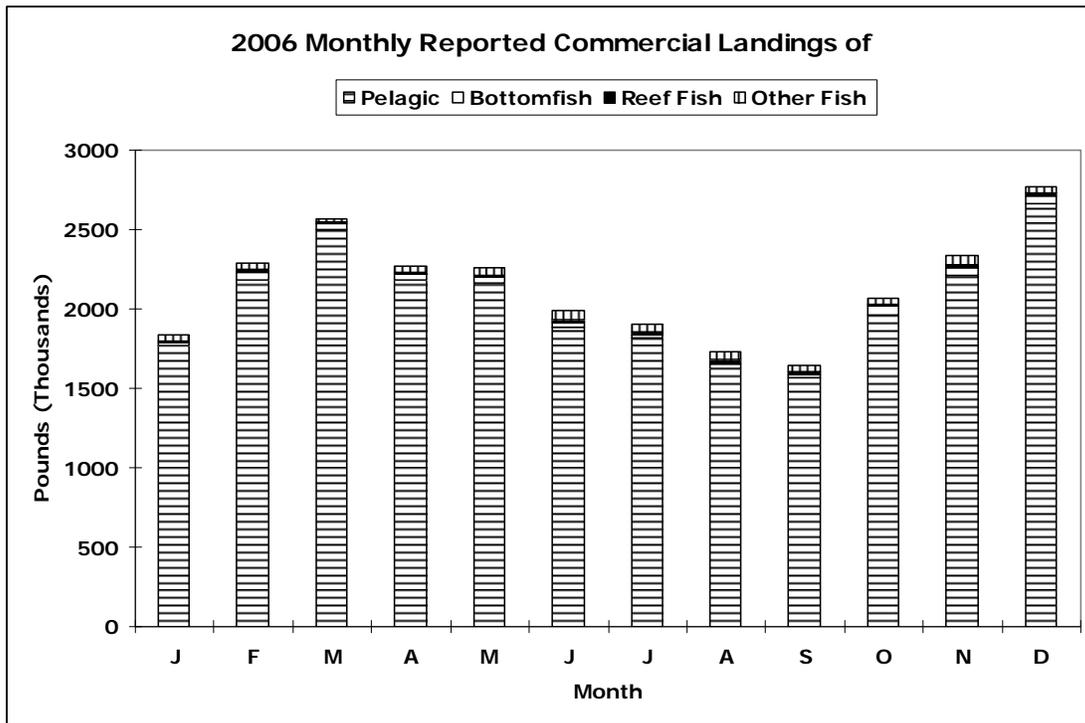


Figure D-1-1

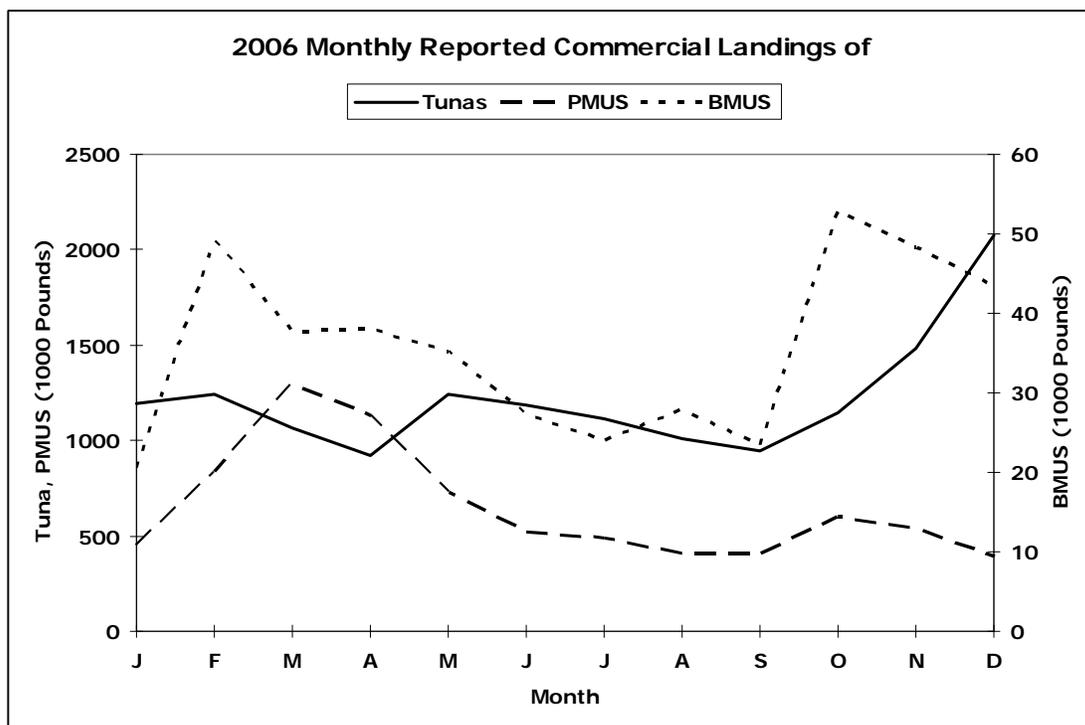


Figure D-1-2

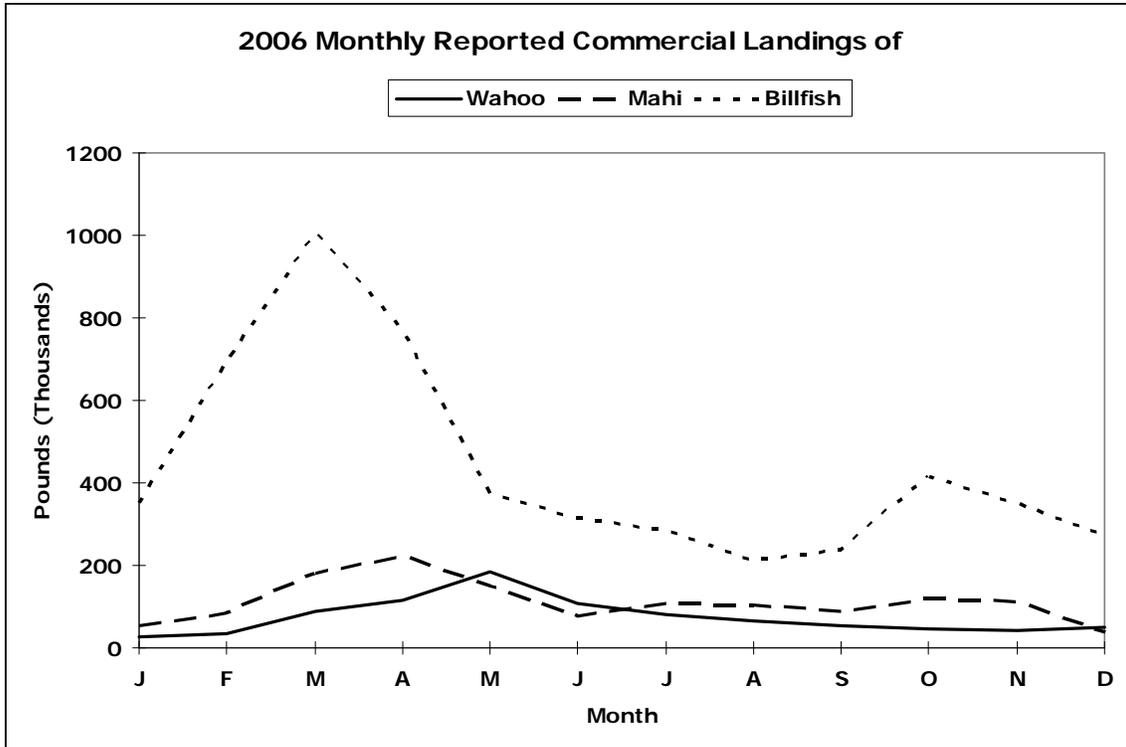


Figure D-1-3

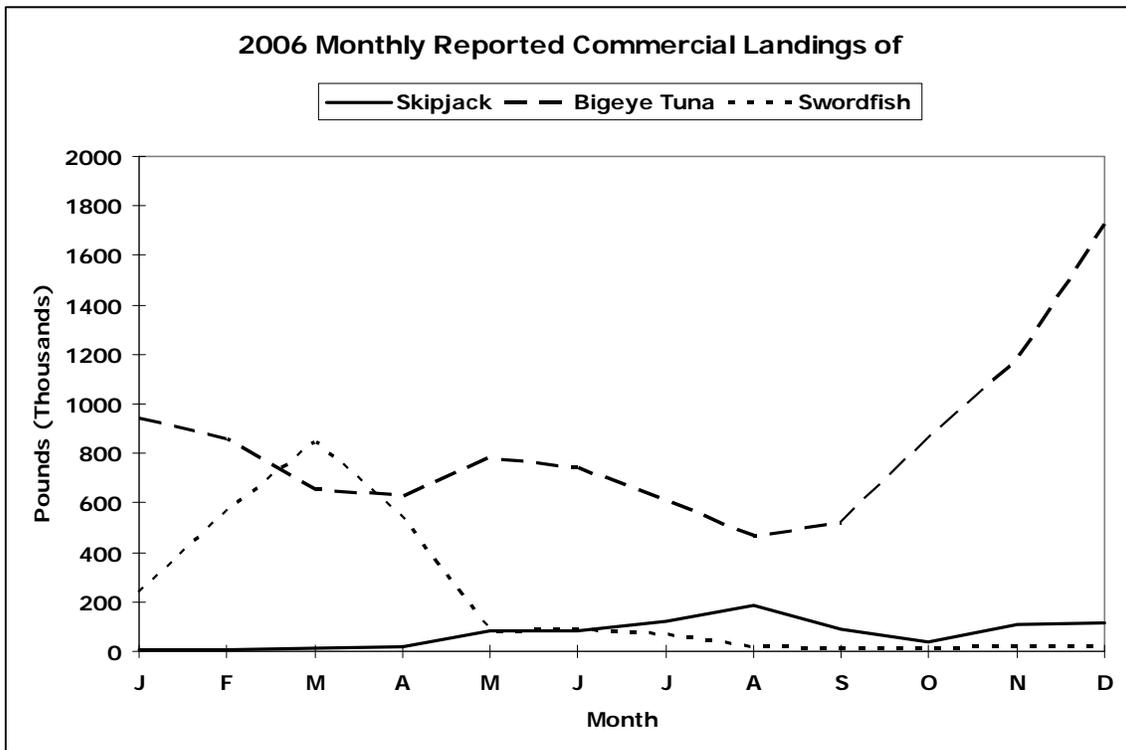


Figure D-1-4

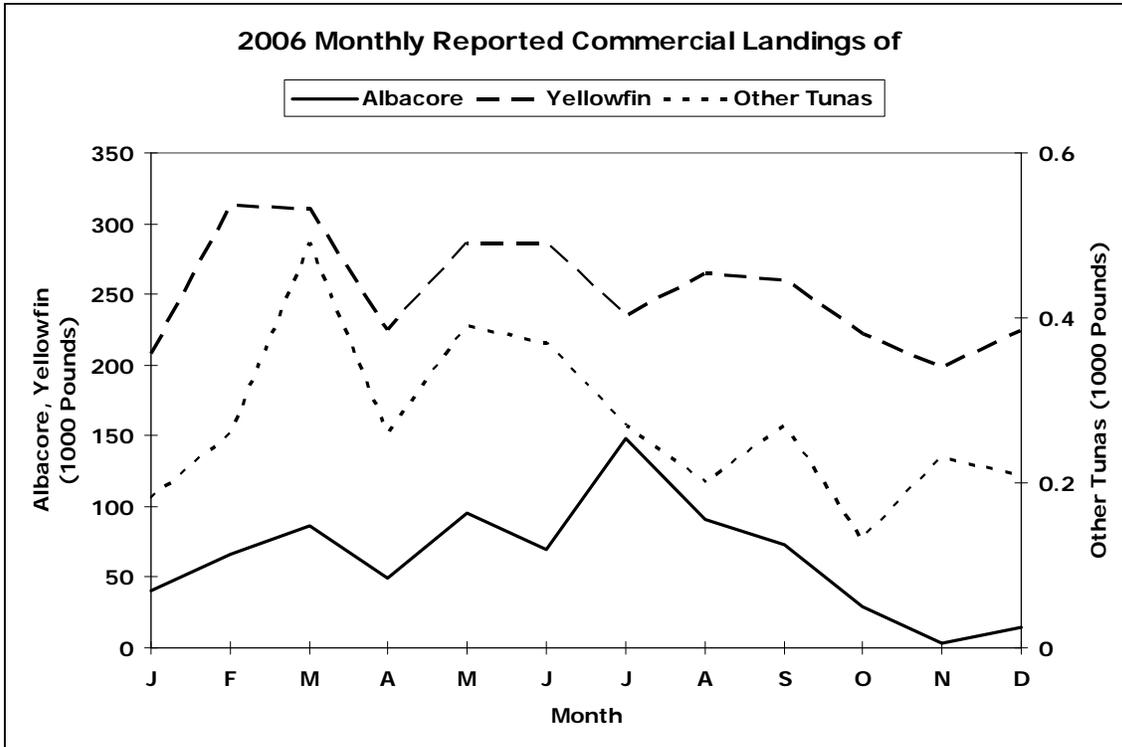


Figure D-1-5

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

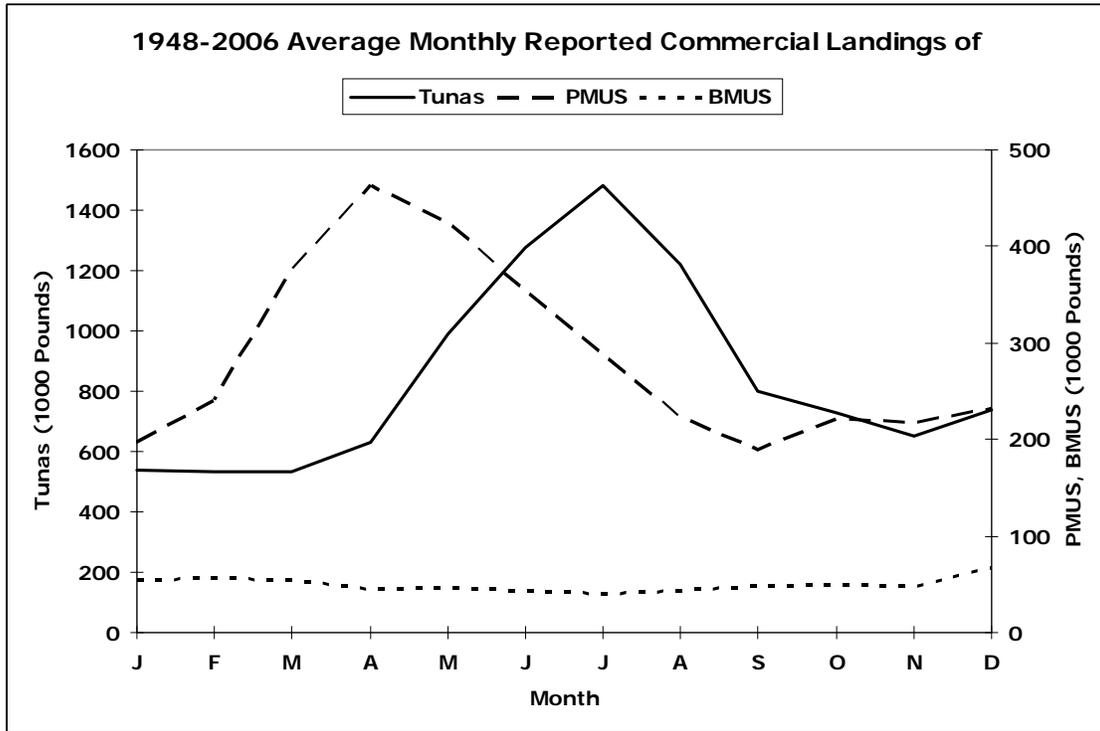


Figure D-2-1

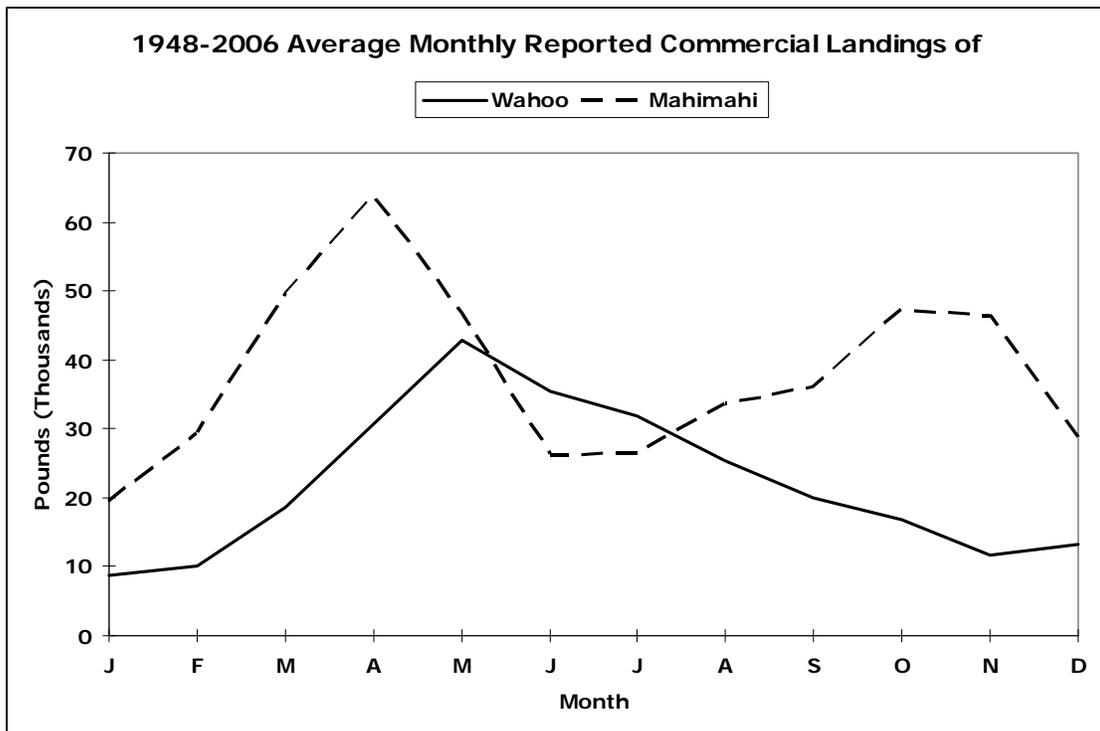


Figure D-2-2

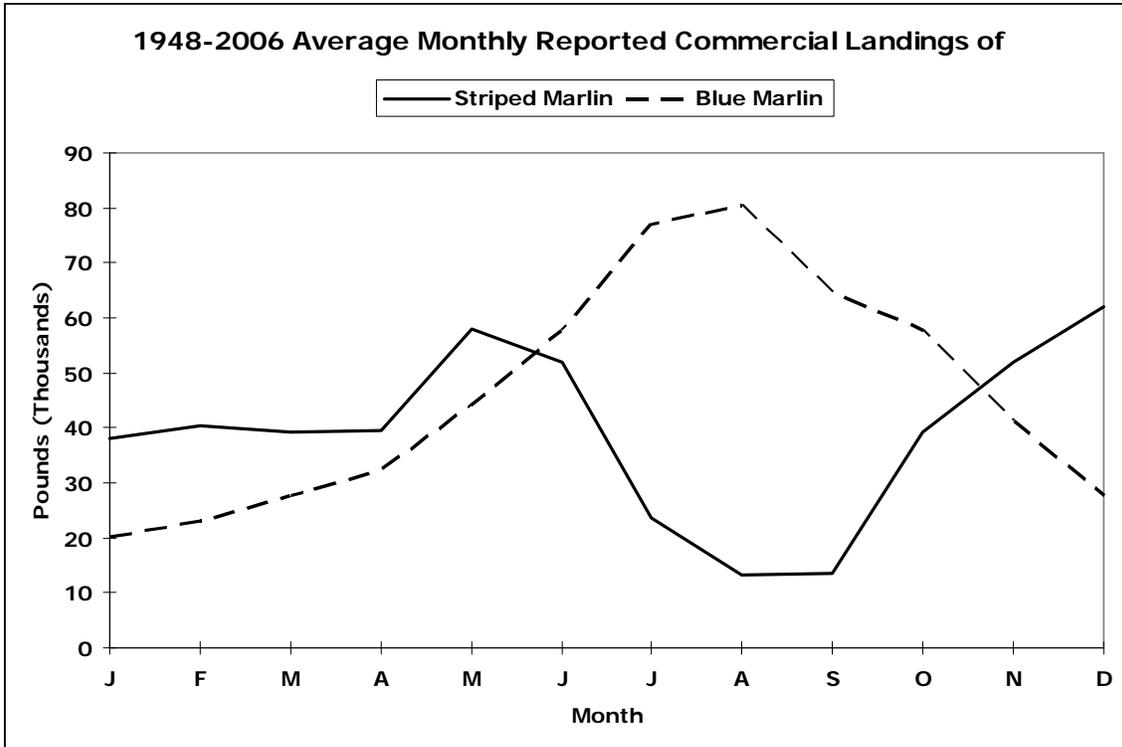


Figure D-2-3

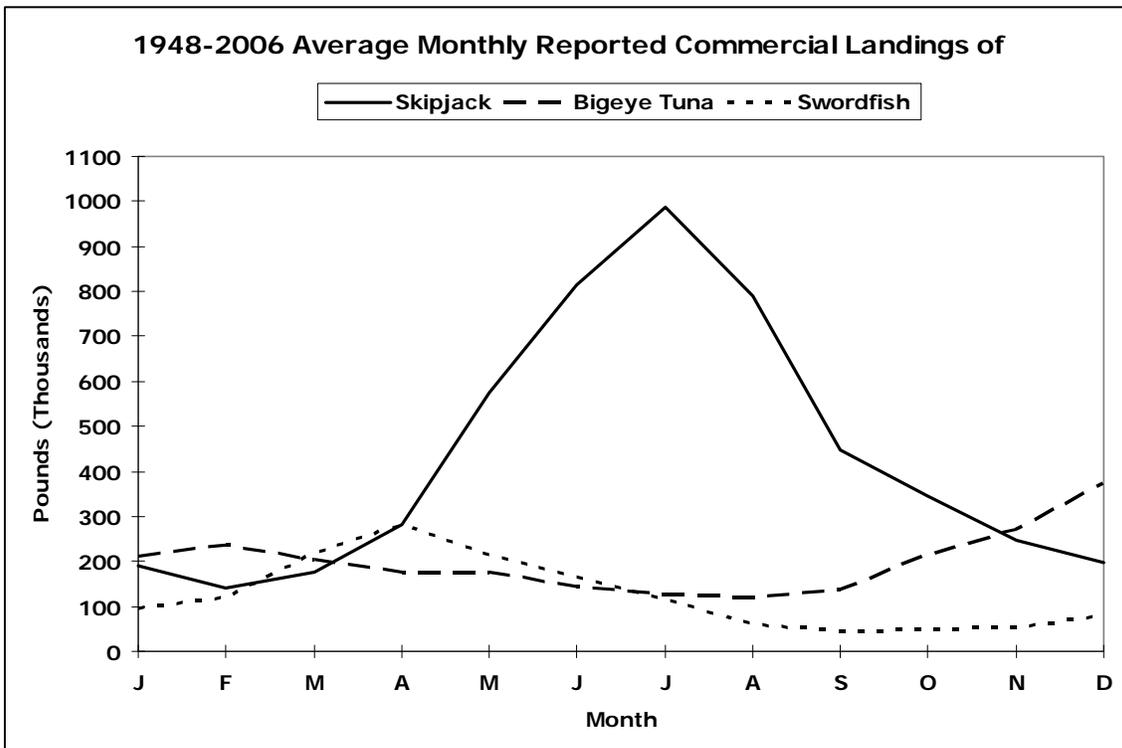


Figure D-2-4

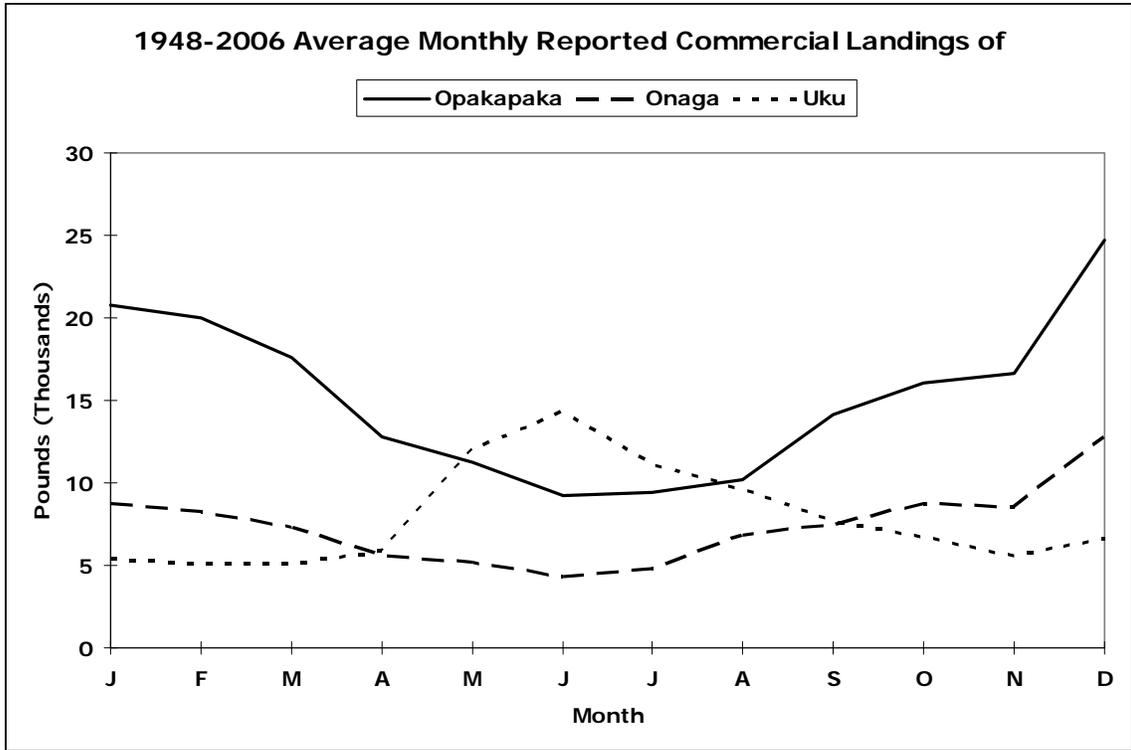


Figure D-2-5

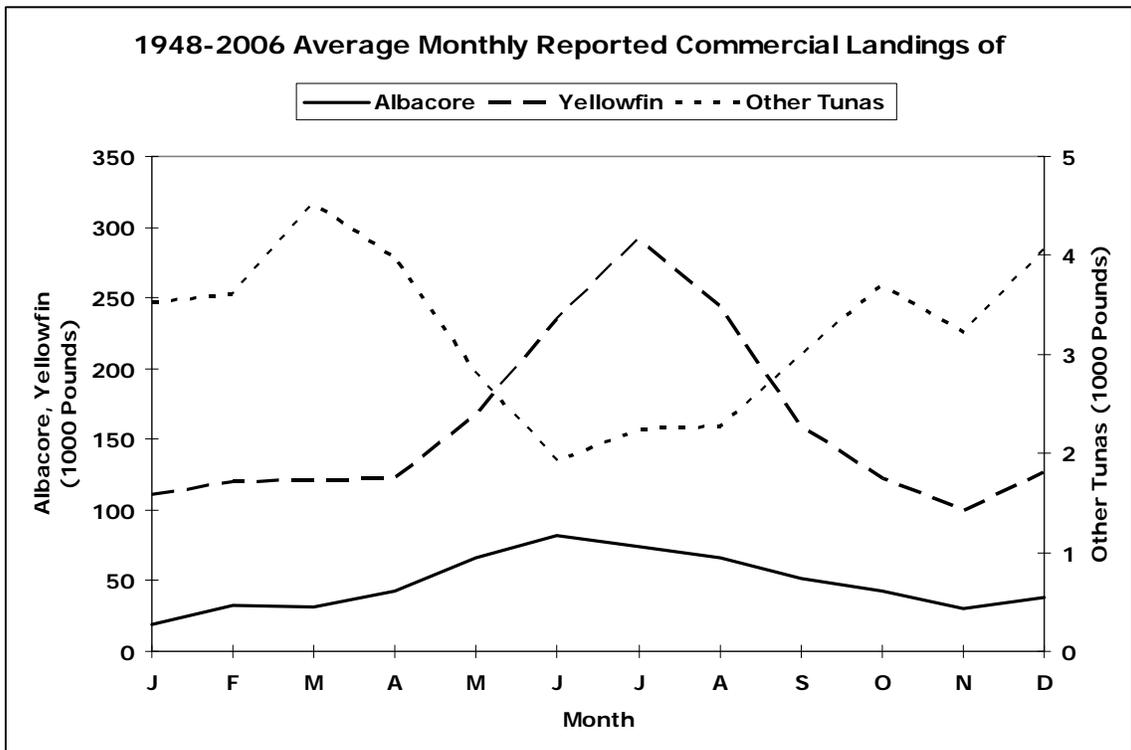


Figure D-2-6

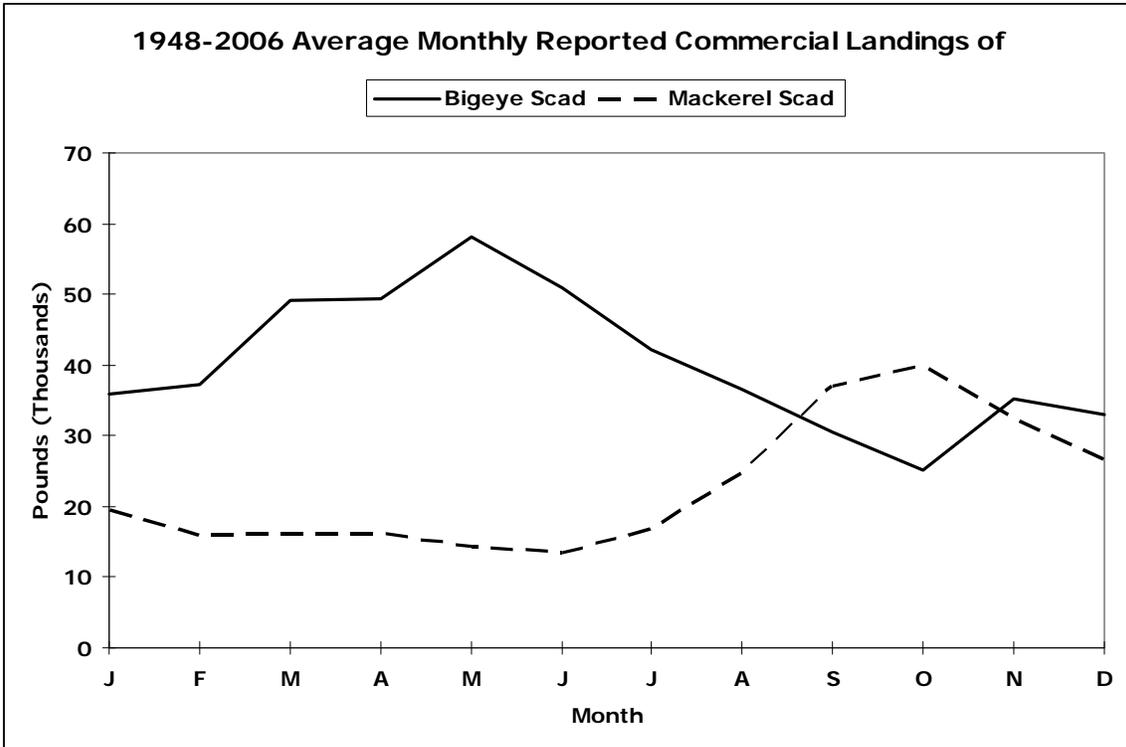


Figure D-2-7

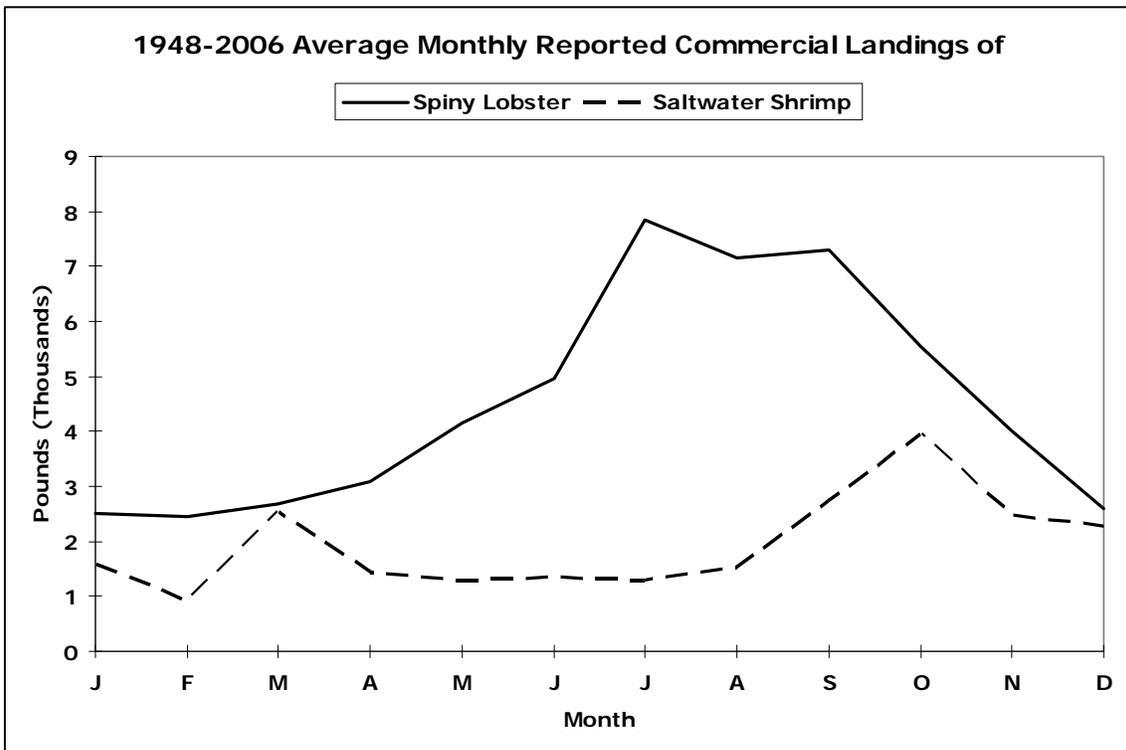


Figure D-2-8

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

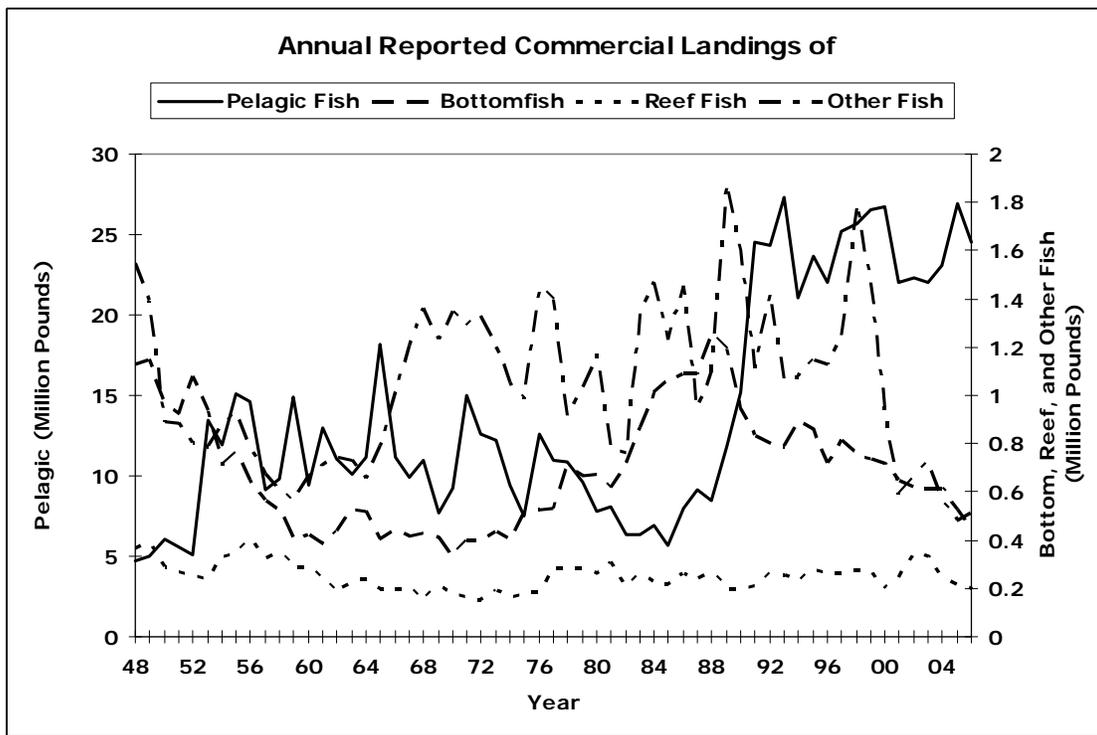


Figure D-3-1

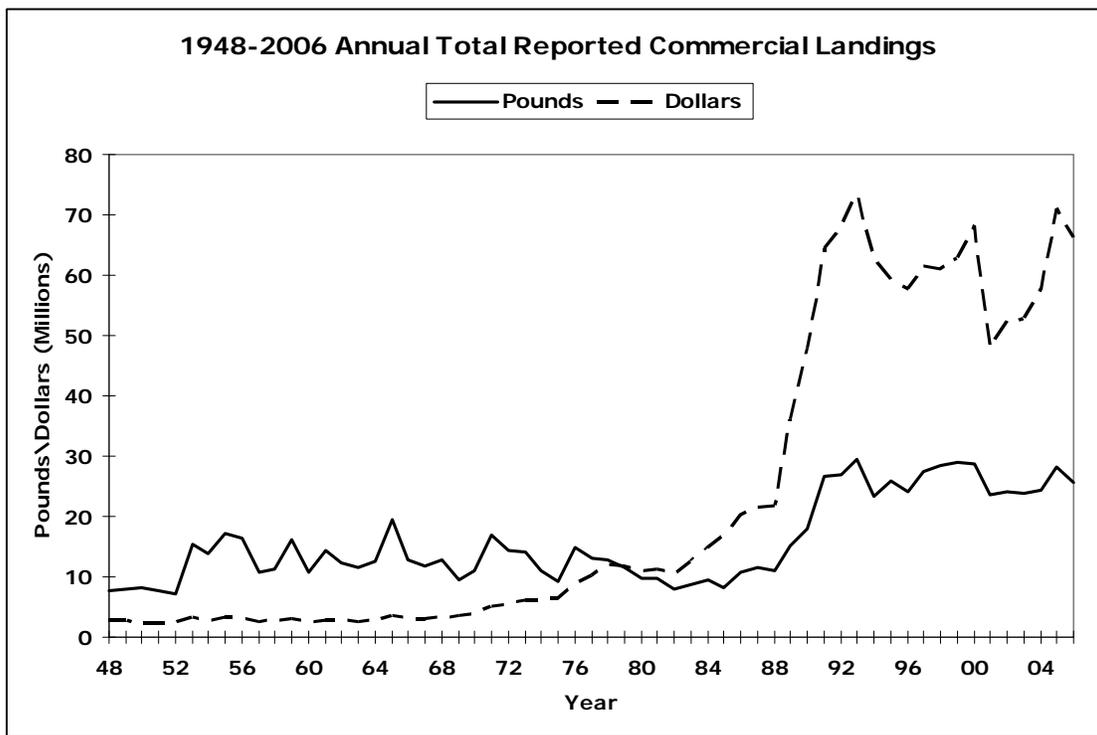


Figure D-3-2

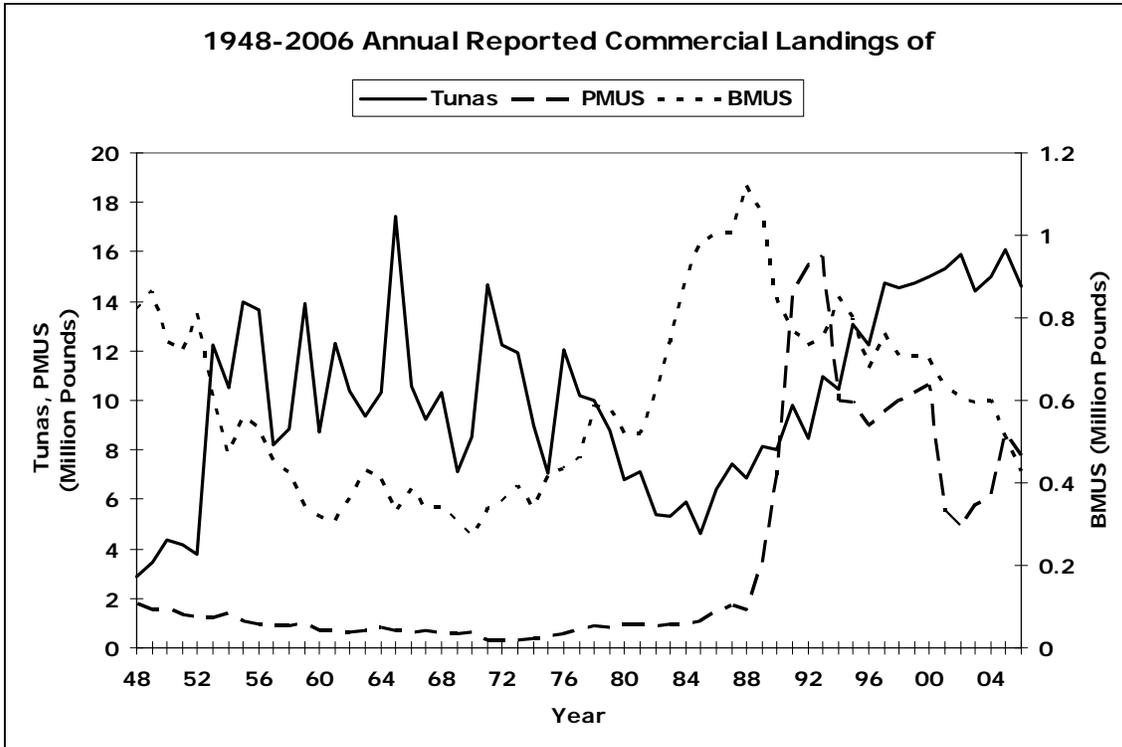


Figure D-3-3

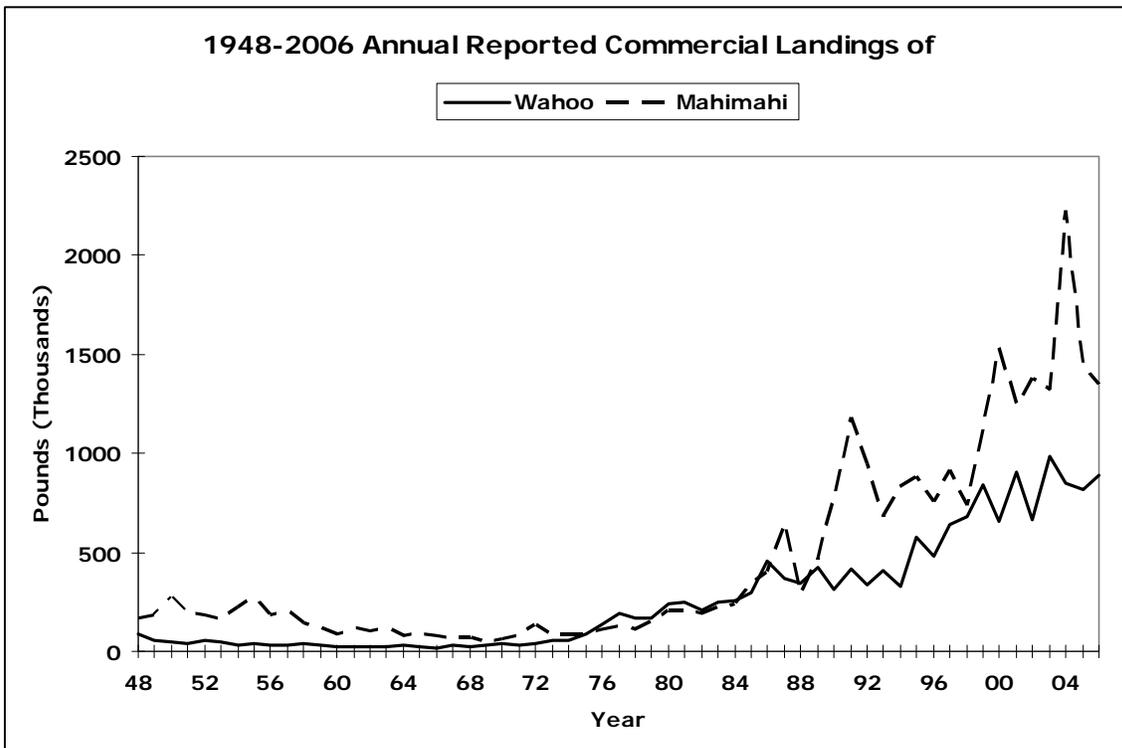


Figure D-3-4

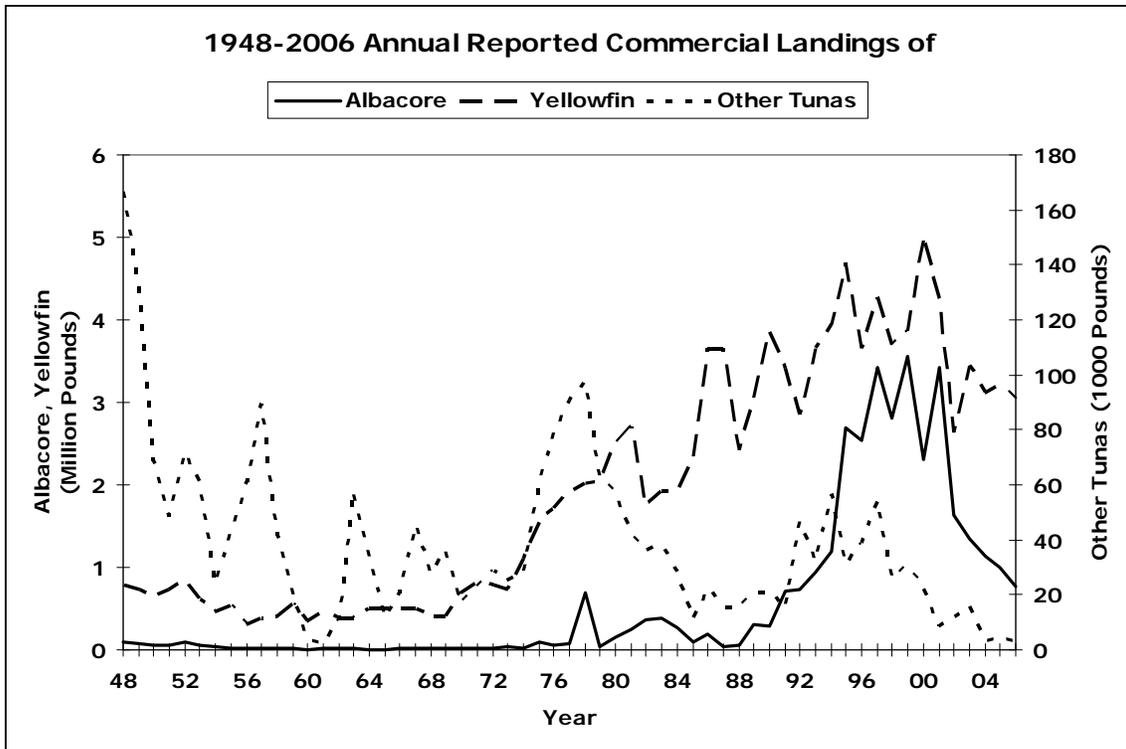


Figure D-3-5

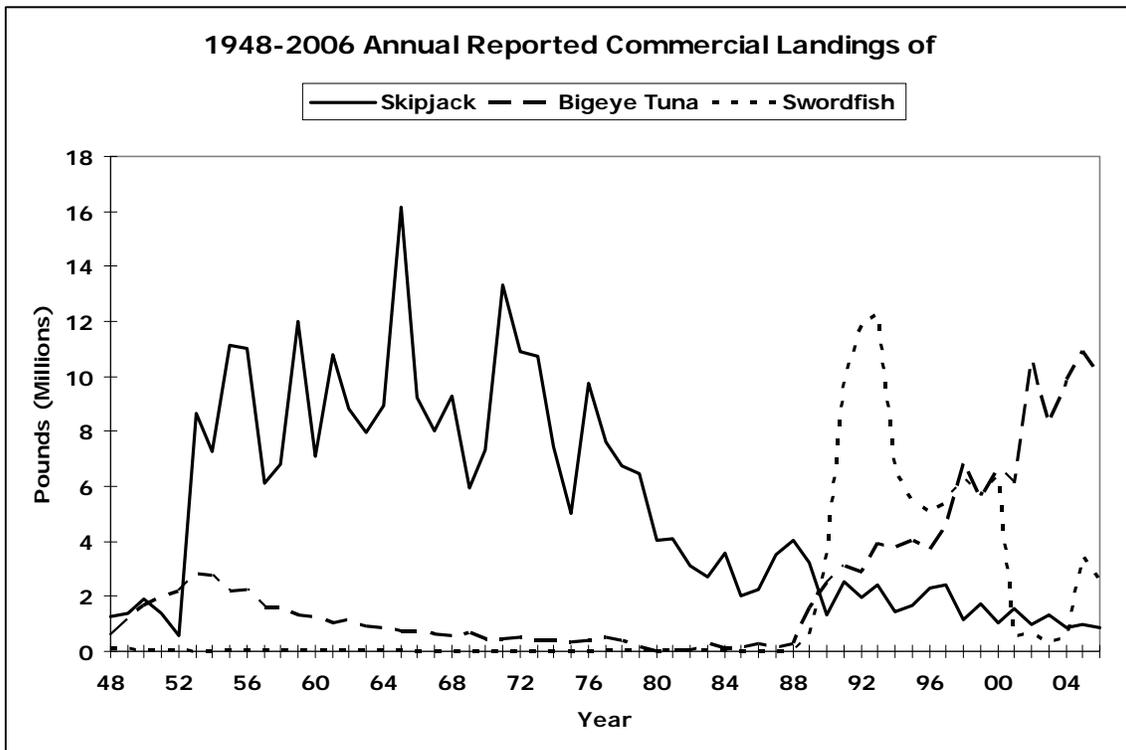


Figure D-3-6

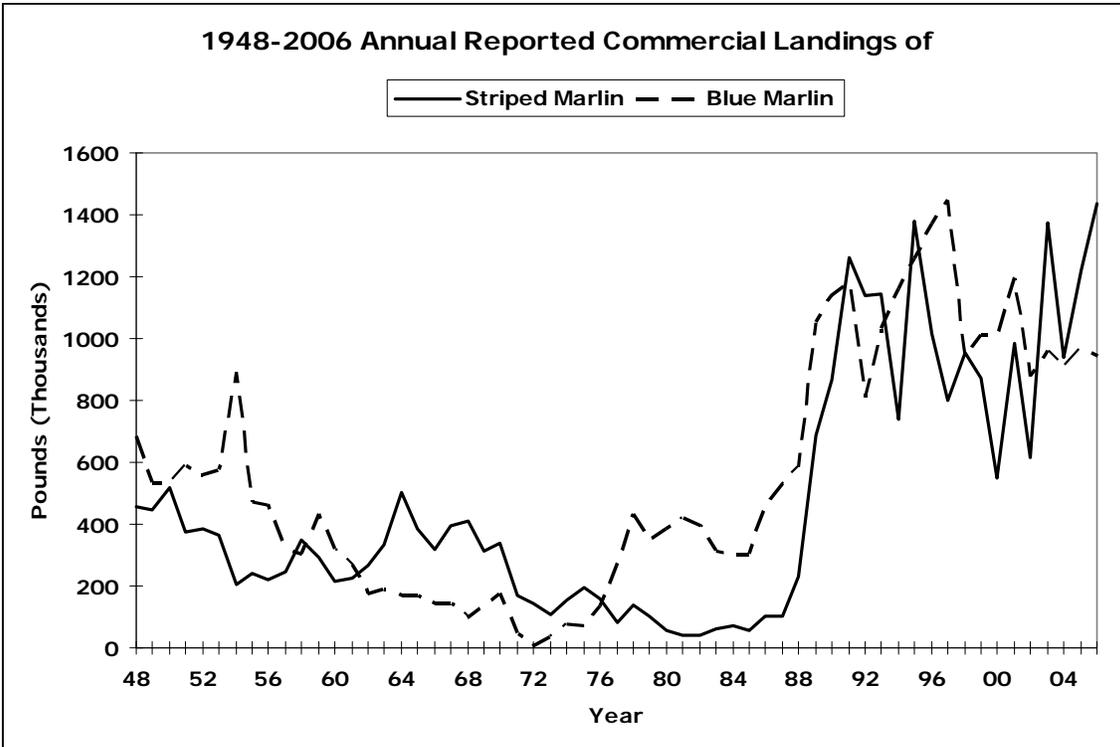


Figure D-3-7

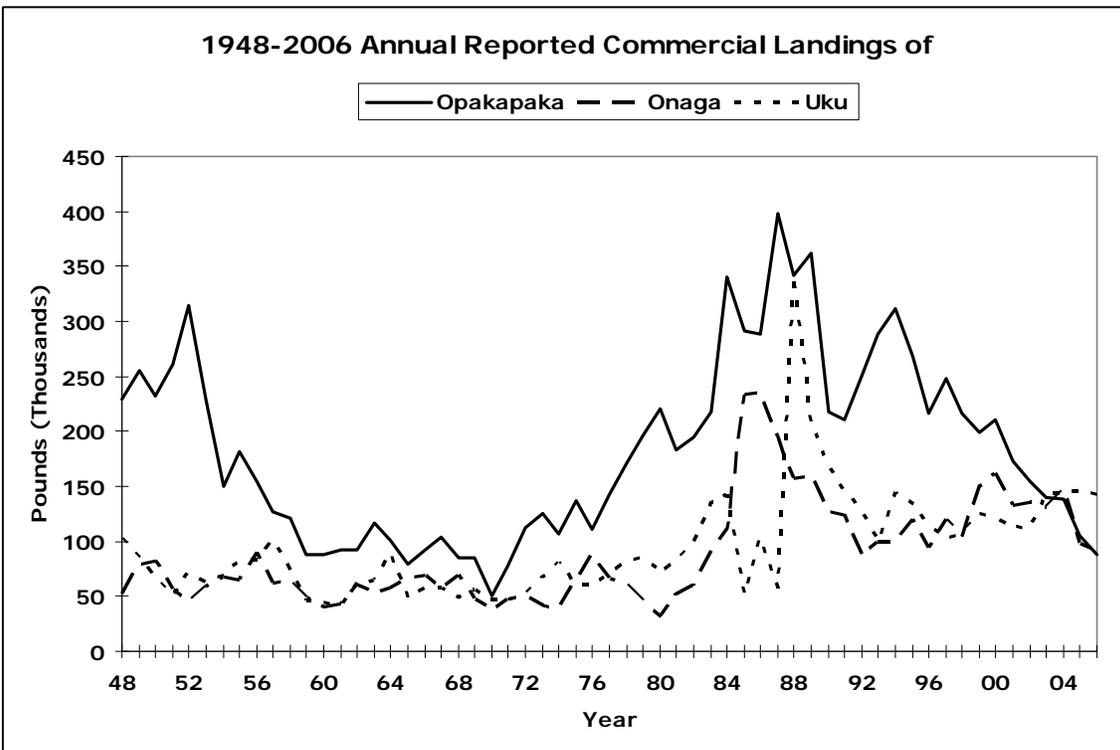


Figure D-3-8

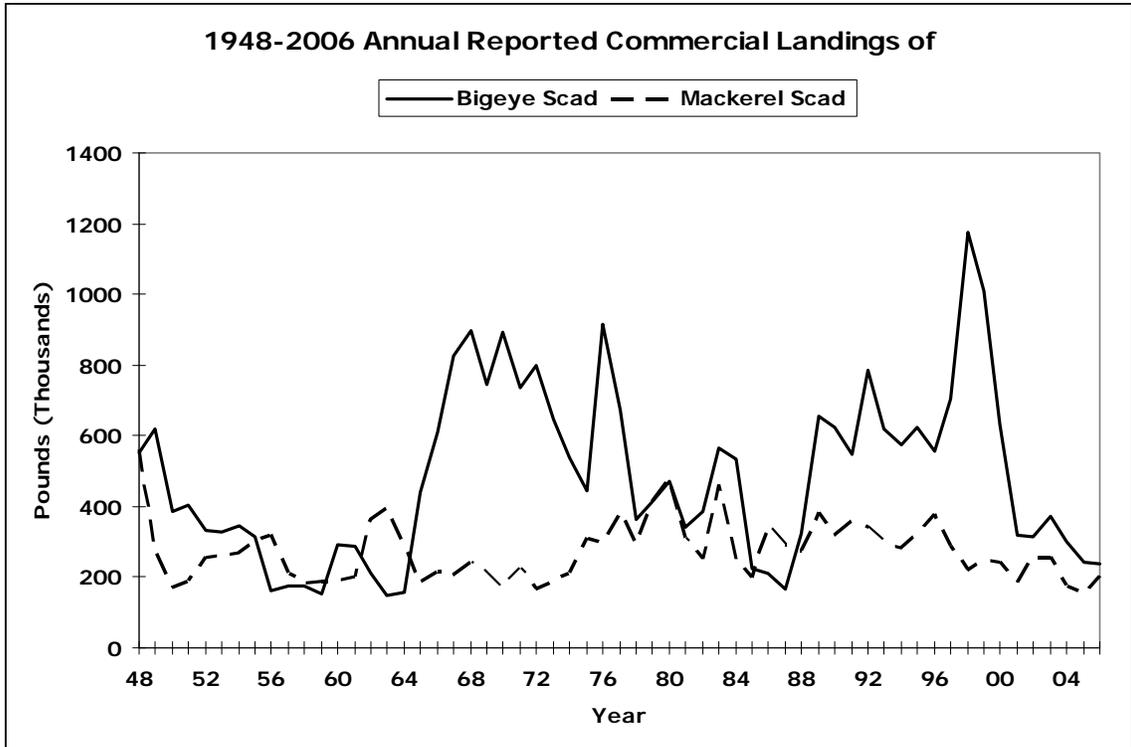


Figure D-3-9

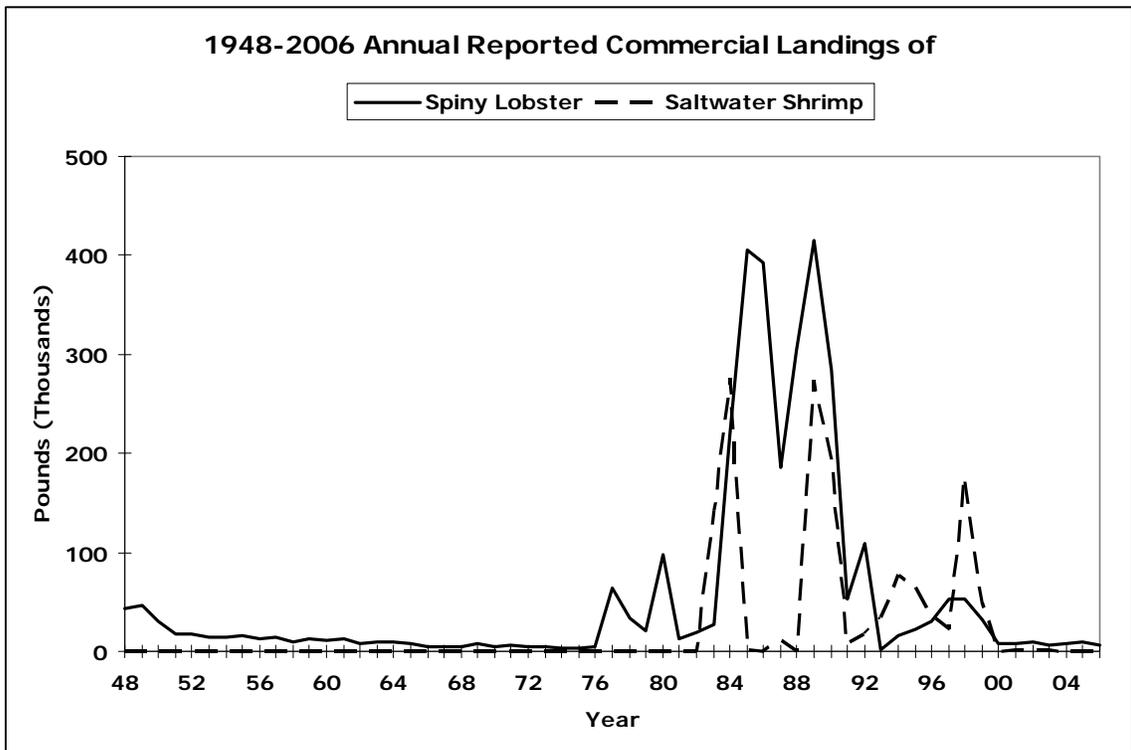


Figure D-3-10

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

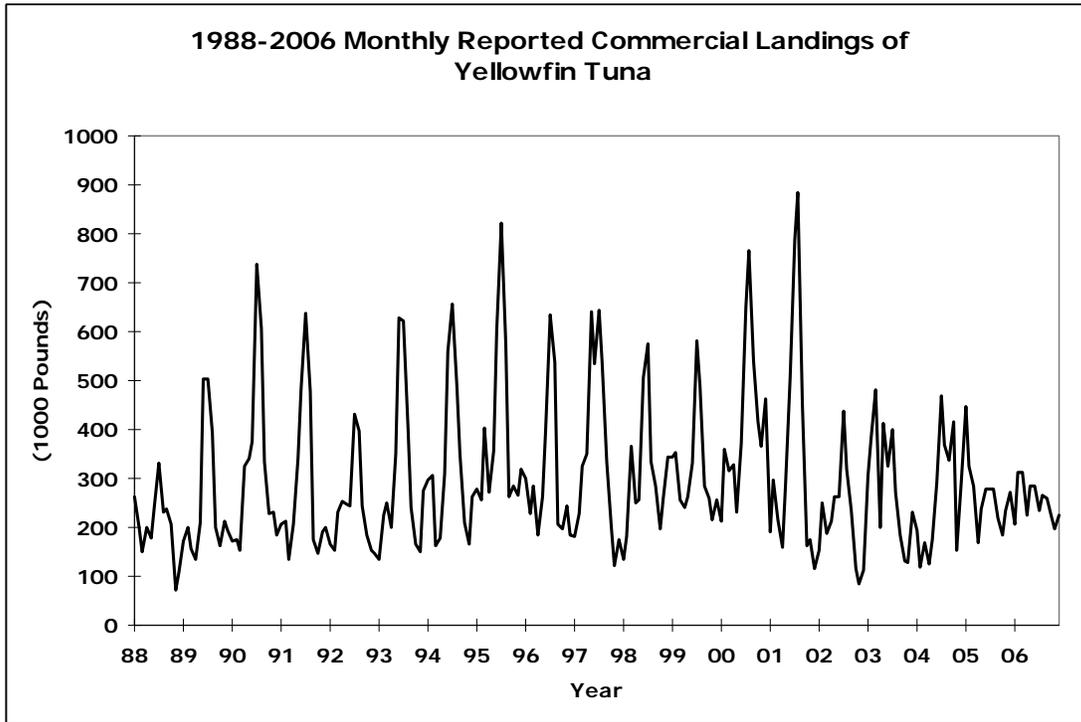


Figure D-4-1

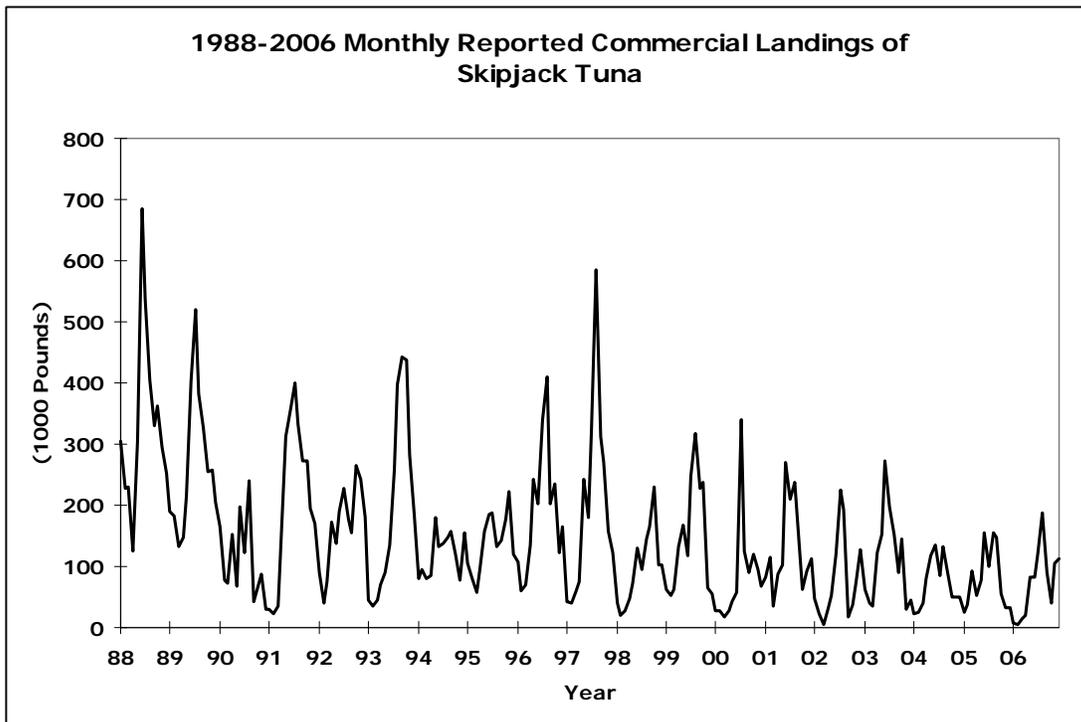


Figure D-4-2

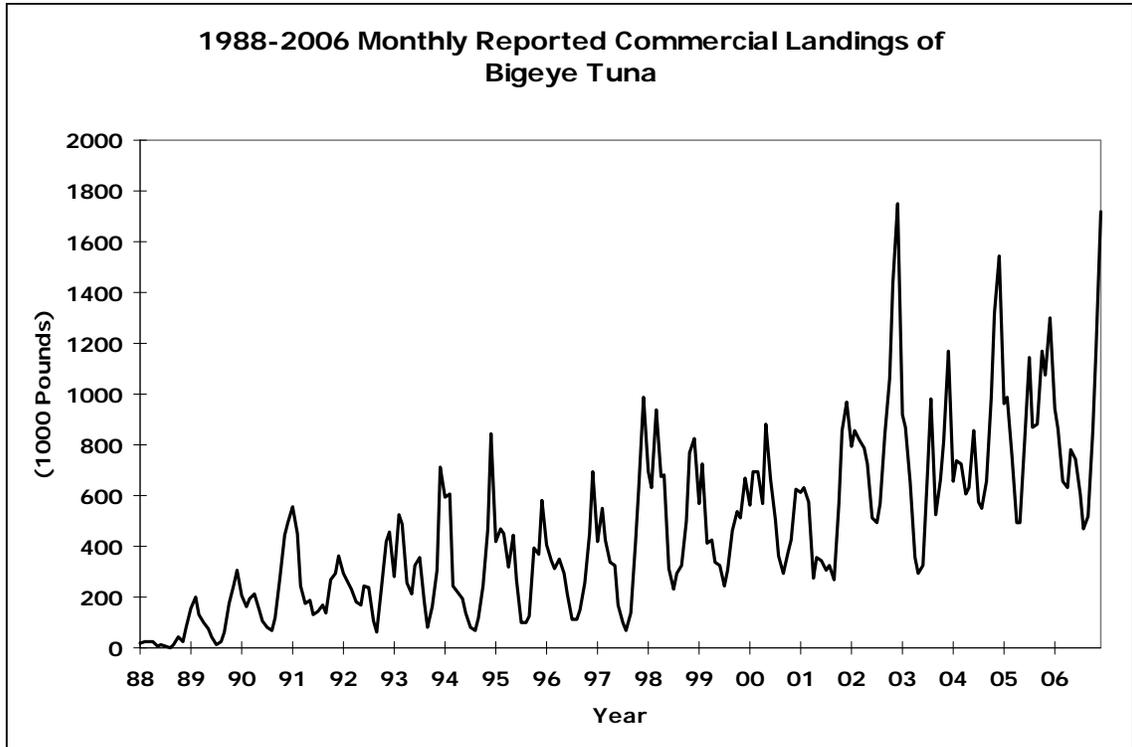


Figure D-4-3

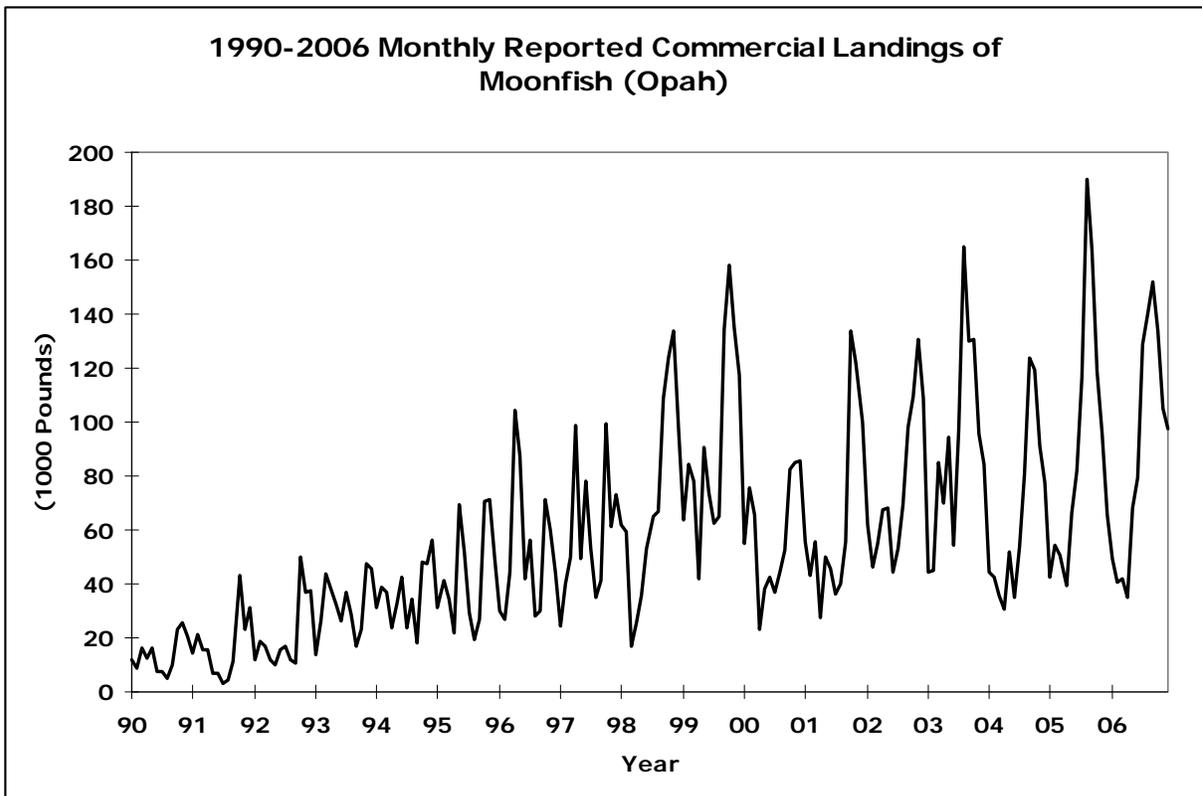


Figure D-4-4

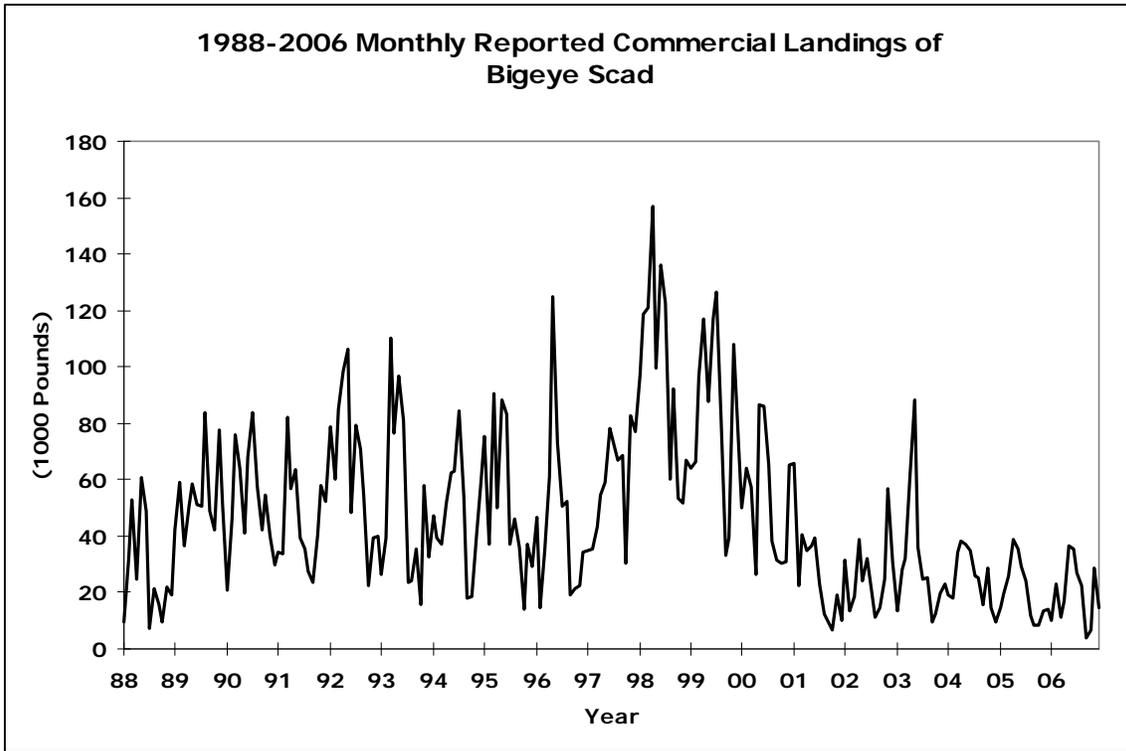


Figure D-4-5

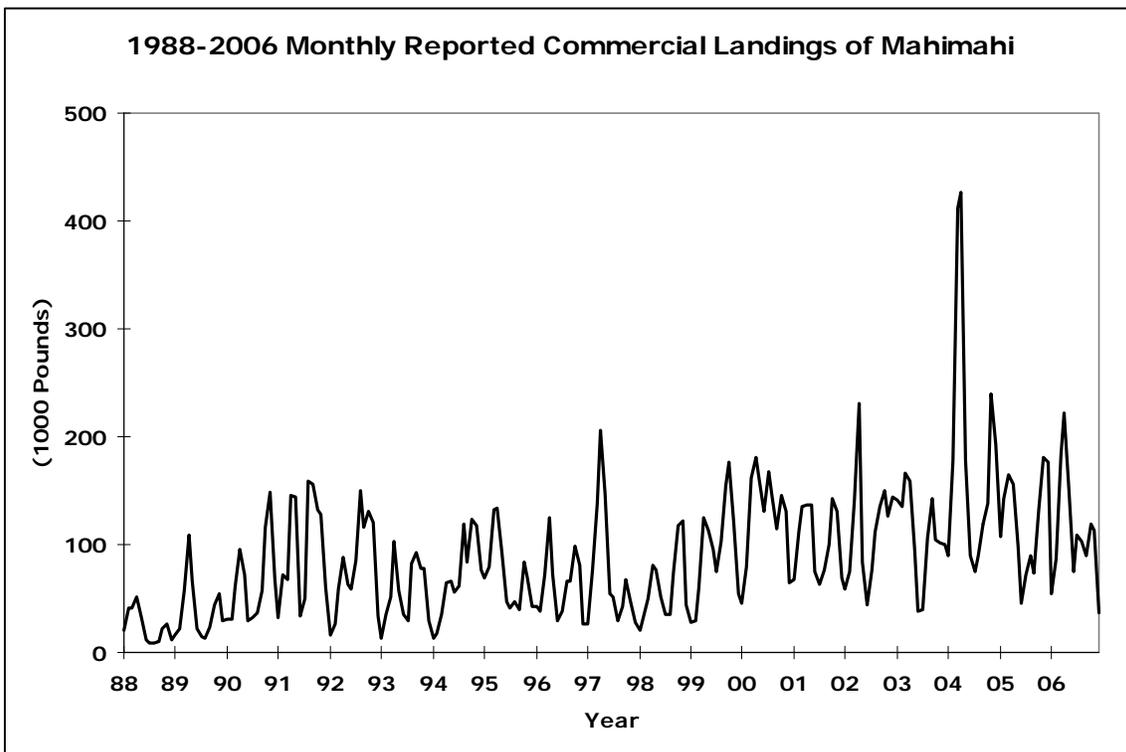


Figure D-4-6

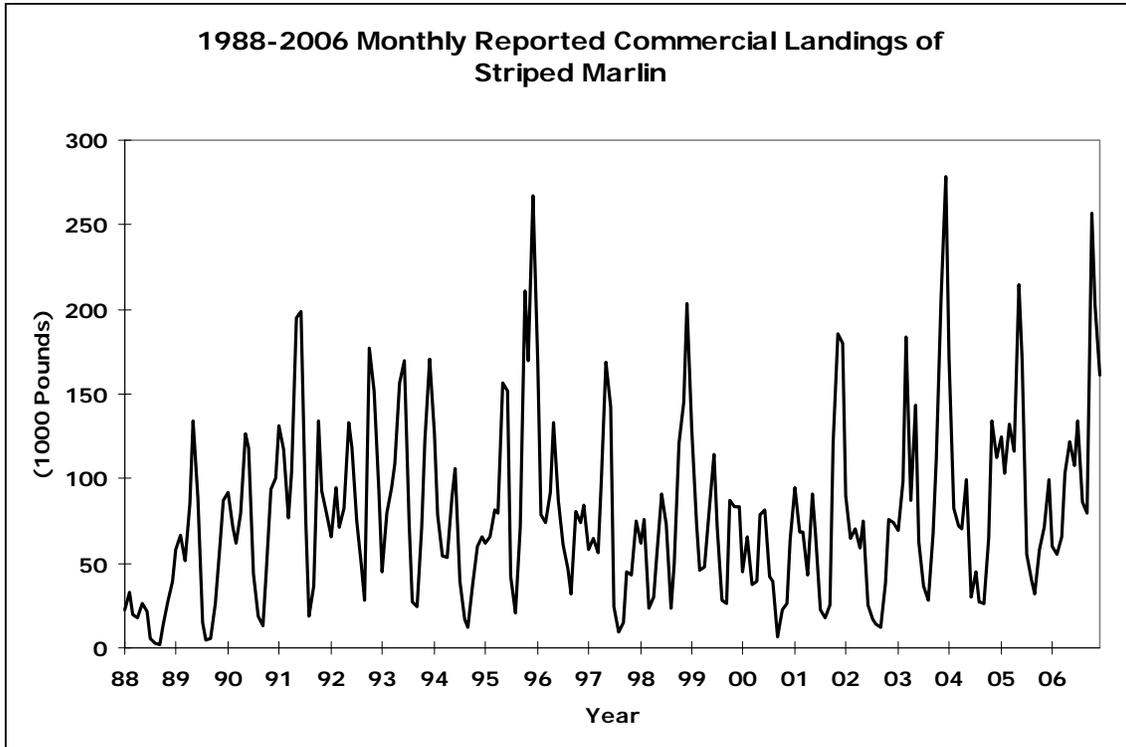


Figure D-4-7

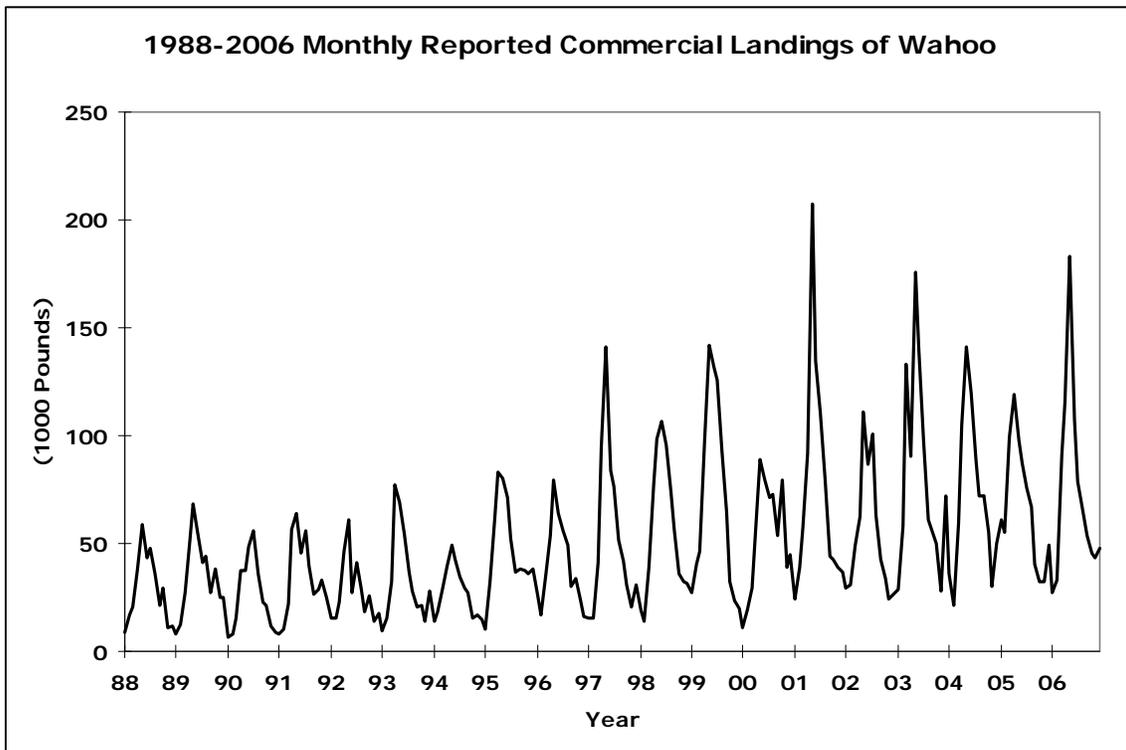


Figure D-4-8

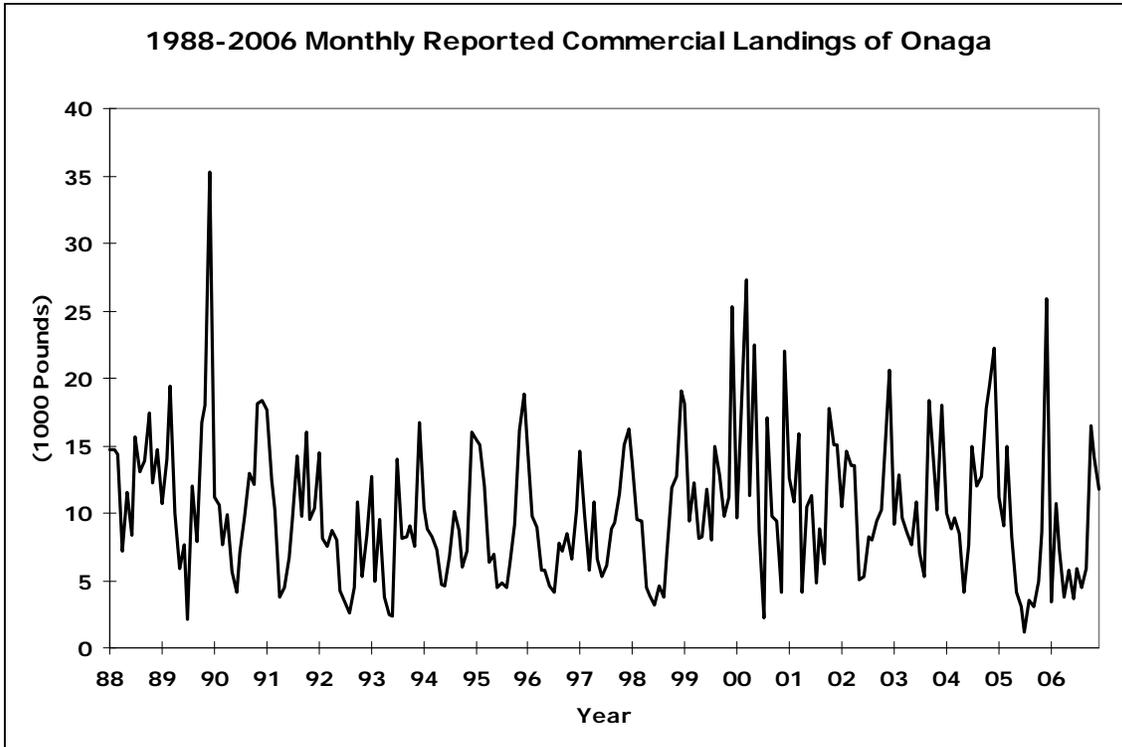


Figure D-4-9

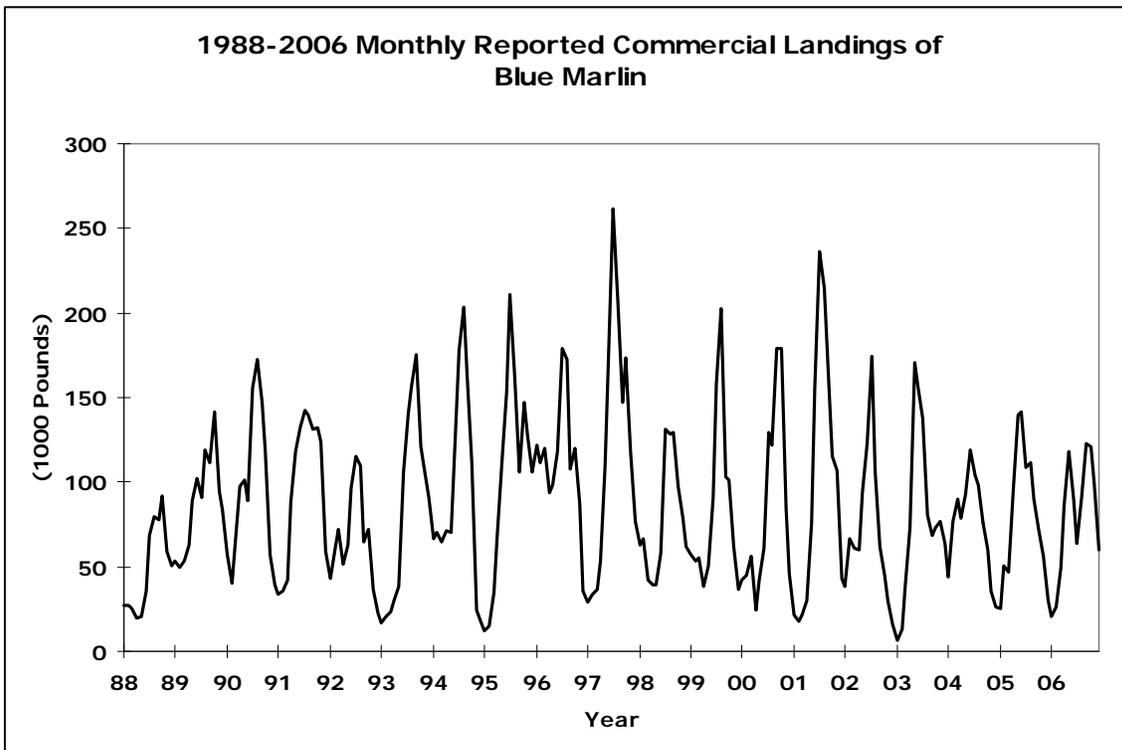


Figure D-4-10

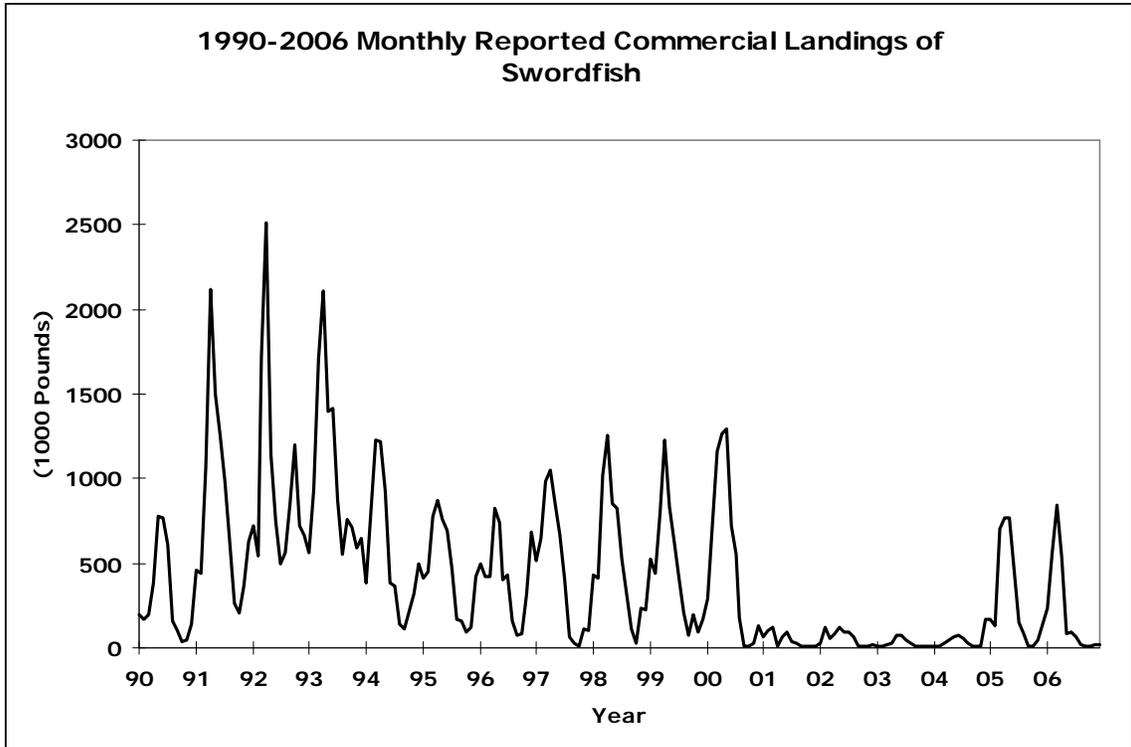


Figure D-4-11

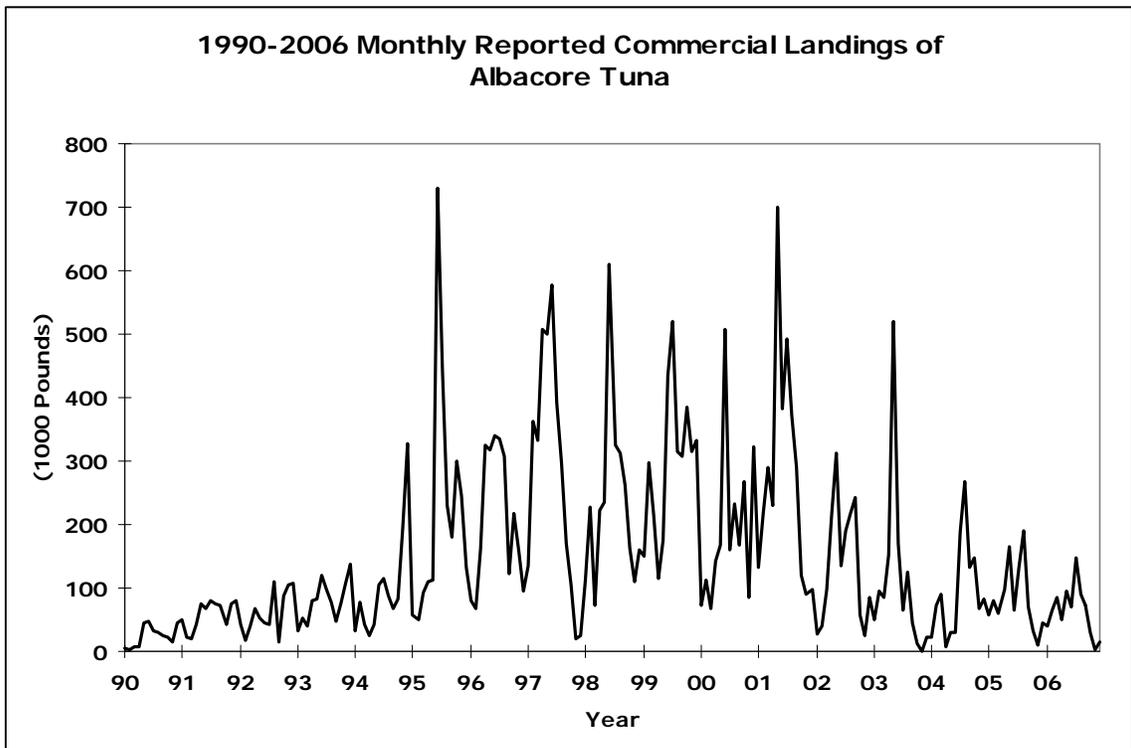


Figure D-4-12

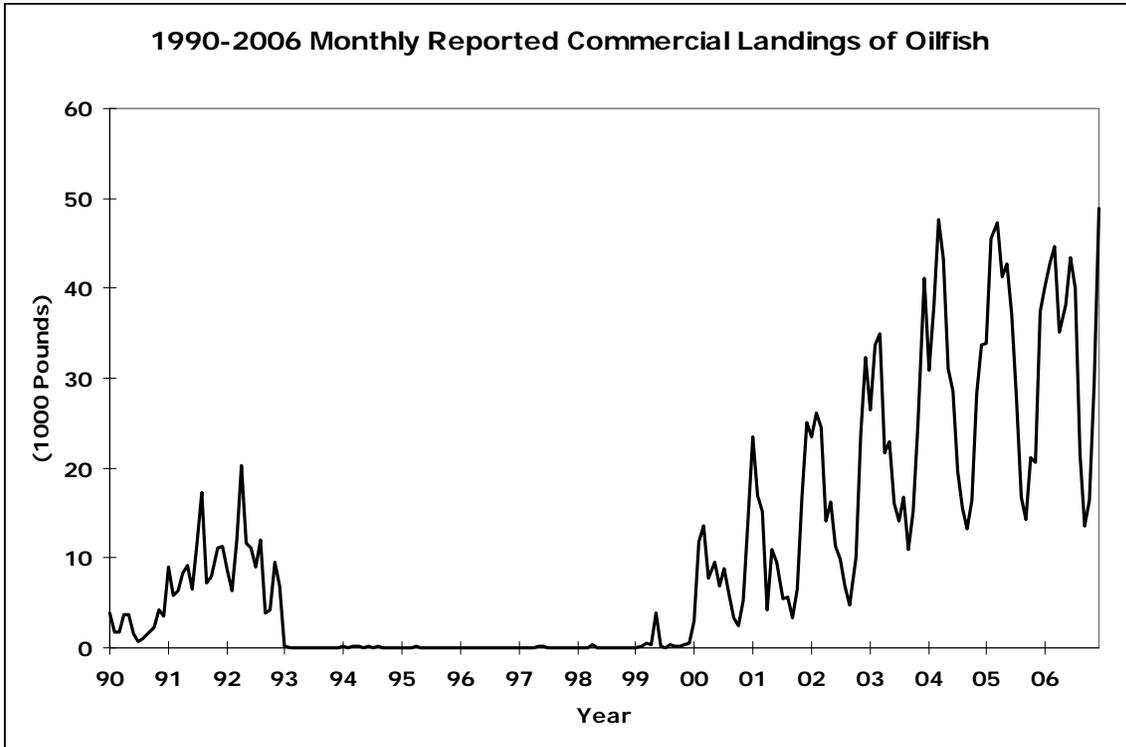


Figure D-4-13

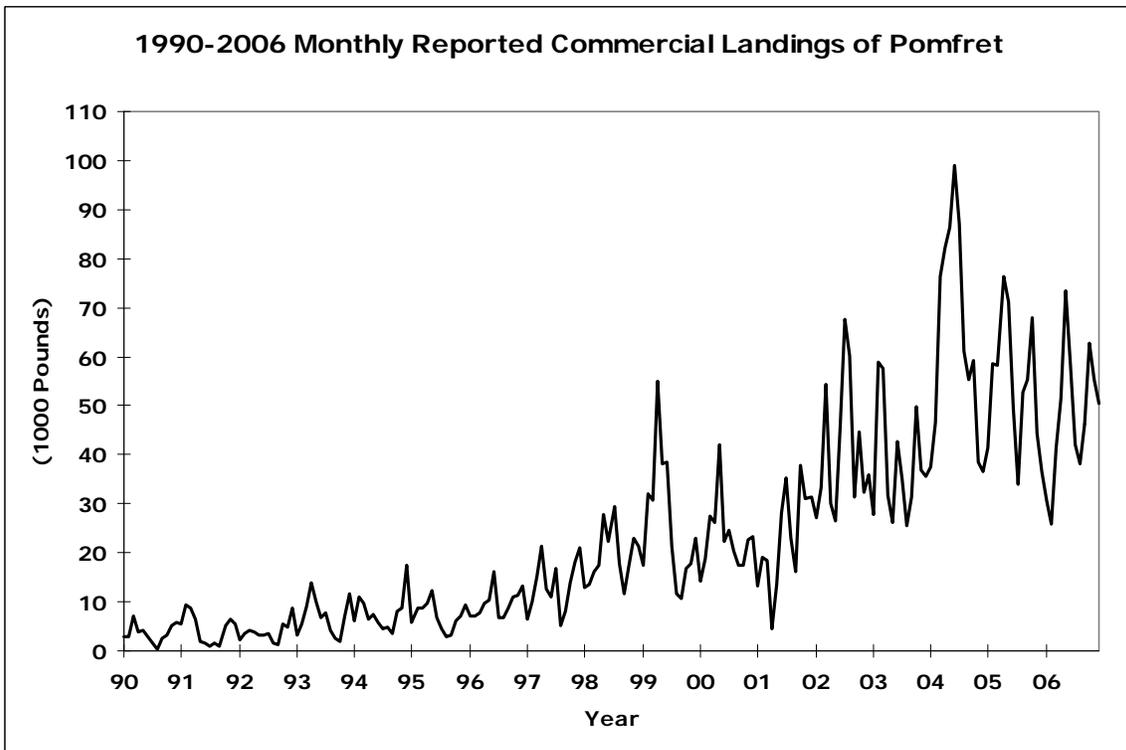


Figure D-4-14